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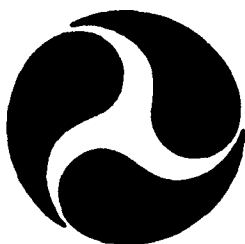
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**Directional Stability Tests  
Of Two Prismatic Planing Hulls**

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and  
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| 16. Abstract<br><br>The first of four reports on research designed to obtain basic hydrodynamic information about planing hulls through the use of captive model tests. The information is to be used for the general study of dynamic stability while underway, course keeping, turning and maneuvering, etc. The models tested were of idealized patrol boats having an LBP of 100 ft., a beam of 20 ft., and a displacement of 100 long tons. The models had prismatic hull forms with 10, 20 and 30 degrees of deadrise.<br><br>The report presents the results of tests on the 10 and 20 degree of deadrise hulls. Most of the data is for unappended hulls. Straight course and rotating arm tests were conducted at three speeds [ $C_v = 1.5, 3.0,$ and $4.0$ ] three angular velocities [ $L/R = 0, 0.117,$ and $0.234$ ] and a single beam loading [ $C_{\Delta} = 0.4375$ ]. The tests covered the following angular parameter ranges. Trim: -2 to 6 degrees, roll: -10 to 20 degrees, and yaw: -15 to 15 degrees. Twin rudders were fitted during the straight course tests at zero roll and yaw angles, and the effect of rudder deflection from -20 to 20 degrees investigated. Measurements were made of the drag and side forces, and the roll, pitch, and yaw moments. Draft was recorded. Underwater photographs were taken, and the wetted lengths and areas determined from these photographs. Video recordings were made of all runs. The data are presented in extensive tables, in wind axes and body axes, and in both dimensional and non-dimensional form. |  |   |  |  |           |
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# METRIC CONVERSION FACTORS

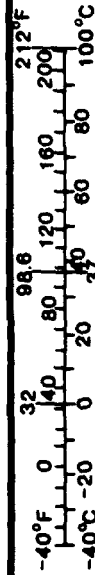
## Approximate Conversions to Metric Measures

| Symbol          | When You Know              | Multiply By                | To Find             | Symbol          |
|-----------------|----------------------------|----------------------------|---------------------|-----------------|
|                 | <b>LENGTH</b>              |                            |                     |                 |
| in              | inches                     | * 2.5                      | centimeters         | cm              |
| ft              | feet                       | 30                         | centimeters         | cm              |
| yd              | yards                      | 0.9                        | meters              | m               |
| mi              | miles                      | 1.6                        | kilometers          | km              |
|                 | <b>AREA</b>                |                            |                     |                 |
| in <sup>2</sup> | square inches              | 6.5                        | square centimeters  | cm <sup>2</sup> |
| ft <sup>2</sup> | square feet                | 0.09                       | square meters       | m <sup>2</sup>  |
| yd <sup>2</sup> | square yards               | 0.8                        | square meters       | m <sup>2</sup>  |
| mi <sup>2</sup> | square miles               | 2.6                        | square kilometers   | km <sup>2</sup> |
|                 | acres                      | 0.4                        | hectares            | ha              |
|                 | <b>MASS (WEIGHT)</b>       |                            |                     |                 |
| oz              | ounces                     | 28                         | grams               | g               |
| lb              | pounds                     | 0.45                       | kilograms           | kg              |
|                 | short tons (2000 lb)       | 0.9                        | tonnes              | t               |
|                 | <b>VOLUME</b>              |                            |                     |                 |
| tsp             | teaspoons                  | 5                          | milliliters         | ml              |
| tbsp            | tablespoons                | 15                         | milliliters         | ml              |
| fl oz           | fluid ounces               | 30                         | milliliters         | ml              |
| c               | cups                       | 0.24                       | liters              | l               |
| pt              | pints                      | 0.47                       | liters              | l               |
| qt              | quarts                     | 0.95                       | liters              | l               |
| gal             | gallons                    | 3.8                        | liters              | l               |
| ft <sup>3</sup> | cubic feet                 | 0.03                       | cubic meters        | m <sup>3</sup>  |
| yd <sup>3</sup> | cubic yards                | 0.76                       | cubic meters        | m <sup>3</sup>  |
|                 | <b>TEMPERATURE (EXACT)</b> |                            |                     |                 |
| °F              | Fahrenheit temperature     | 5/9 (after subtracting 32) | Celsius temperature | °C              |

\*1 in = 2.54 (exactly).

## Approximate Conversions from Metric Measures

| Symbol          | When You Know                     | Multiply By       | To Find                | Symbol          |
|-----------------|-----------------------------------|-------------------|------------------------|-----------------|
|                 | <b>LENGTH</b>                     |                   |                        |                 |
| mm              | millimeters                       | 0.04              | inches                 | in              |
| cm              | centimeters                       | 0.4               | inches                 | in              |
| m               | meters                            | 3.3               | feet                   | ft              |
| m               | meters                            | 1.1               | yards                  | yd              |
| km              | kilometers                        | 0.6               | miles                  | mi              |
|                 | <b>AREA</b>                       |                   |                        |                 |
| cm <sup>2</sup> | square centimeters                | 0.16              | square inches          | in <sup>2</sup> |
| m <sup>2</sup>  | square meters                     | 1.2               | square yards           | yd <sup>2</sup> |
| km <sup>2</sup> | square kilometers                 | 0.4               | square miles           | mi <sup>2</sup> |
| ha              | hectares (10,000 m <sup>2</sup> ) | 2.5               | acres                  |                 |
|                 | <b>MASS (WEIGHT)</b>              |                   |                        |                 |
| g               | grams                             | 0.035             | ounces                 | oz              |
| kg              | kilograms                         | 2.2               | pounds                 | lb              |
| t               | tonnes (1000 kg)                  | 1.1               | short tons             |                 |
|                 | <b>VOLUME</b>                     |                   |                        |                 |
| ml              | milliliters                       | 0.03              | fluid ounces           | fl oz           |
| l               | liters                            | 0.125             | cups                   | c               |
| l               | liters                            | 2.1               | pints                  | pt              |
| l               | liters                            | 1.06              | quarts                 | qt              |
| l               | liters                            | 0.26              | gallons                | gal             |
| m <sup>3</sup>  | cubic meters                      | 35                | cubic feet             | ft <sup>3</sup> |
| m <sup>3</sup>  | cubic meters                      | 1.3               | cubic yards            | yd <sup>3</sup> |
|                 | <b>TEMPERATURE (EXACT)</b>        |                   |                        |                 |
| °C              | Celsius temperature               | 9/5 (then add 32) | Fahrenheit temperature | °F              |





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## NOMENCLATURE

|          |   |
|----------|---|
| b        | beam at chine, ft   |
| CG       | center of gravity   |
| $C_v$    | velocity coefficient, $V/\sqrt{gb}$                                 |
| g        | acceleration due to gravity, 32.17 fps <sup>2</sup>                 |
| K        | roll moment, lb-ft, see Appendix C                                  |
| L        | length between perpendiculars, ft                                   |
| $L_c$    | chine wetted length, inches   |
| $L_k$    | keel wetted length, inches  |
| M        | pitch moment, lb-ft, see Appendix C                                 |
| N        | yaw moment, lb-ft, see Appendix C                                   |
| L/b      | length-beam ratio   |
| LBP      | length between perpendiculars, ft                                   |
| $r'$     | non-dimensional angular turn rate, L/R                              |
| q        | dynamic pressure, $\frac{1}{2}\rho V^2$                             |
| R        | radius of turn of tow point, ft                                     |
| R        | resistance or drag, lb  |
| SKWL     | static keel wetted length, ft, see page 10                          |
| TD       | transom draft, depth of keel at transom below still water level, ft |
| V        | resultant linear velocity, fps                                      |
| w        | specific weight of water, 62.28 lb/cu.ft fresh water at 71.5°F      |
| X        | longitudinal force, lb, see Appendix C                              |
| Y        | lateral force, lb, see Appendix C                                   |
| Z        | vertical force, lb, see Appendix C                                  |
| $\beta$  | deadrise angle, degrees   |
| $\Delta$ | displacement, lb  |
| $\delta$ | rudder deflection, degrees  |
| $\phi$   | roll angle, degrees, see Appendix C                                 |
| $\theta$ | trim angle, degrees, see Appendix C                                 |
| $\psi$   | yaw angle, degrees, see Appendix C                                  |
| $\rho$   | density of water, w/g, 1.9359 slugs/cu.ft at 71.5°F                 |

## NACA Planing Coefficients

|              |  |
|--------------|--|
| $C_{\Delta}$ | beam loading coefficient, $\Delta/wb^3$  |
| $C_K$        | roll moment coefficient, $K/wb^4$        |
| $C_M$        | pitch moment coefficient, $M/wb^4$       |
| $C_N$        | yaw moment coefficient, $N/wb^4$         |
| $C_V$        | speed coefficient, $V/\sqrt{gb}$         |
| $C_R$        | resistance coefficient, $R/wb^3$         |
| $C_X$        | longitudinal force coefficient, $X/wb^3$ |
| $C_Y$        | lateral force coefficient, $Y/wb^3$      |
| $C_Z$        | vertical force coefficient, $Z/wb^3$     |

## Non-dimensional quantities

| Forces                      | Moments                     |
|-----------------------------|-----------------------------|
| $X' = X/qb^2 = 2 C_X/C_V^2$ | $K' = K/qb^3 = 2 C_K/C_V^2$ |
| $Y' = Y/qb^2 = 2 C_Y/C_V^2$ | $M' = M/qb^3 = 2 C_M/C_V^2$ |
| $Z' = Z/qb^2 = 2 C_Z/C_V^2$ | $N' = N/qb^3 = 2 C_N/C_V^2$ |

## Sign Convention

The sign conventions are discussed in Appendix C and vary with the axes system being used. The sense of some quantities that in this report are invariant under the various transformations are summarized here.

The trim is positive in the bow up sense and is zero when the afterbody keel is horizontal.

The roll is positive in the starboard side down sense and is zero when the craft is upright.

The yaw is positive in the bow to starboard sense and is zero when the longitudinal axis of the boat is aligned with the resultant velocity.

The rudder deflection is positive in the clockwise sense when viewed from above looking along the rudder stock and is zero when the rudder is aligned with the longitudinal axis of the hull.

The heave is the height of the tow point above the still water surface, is positive vertically upward, and is zero when the tow point is at the still water level.

The transom draft (TD) is the depth of the keel at transom below the still water surface, is positive vertically downward, and is zero when the keel at transom is at the still water level.

The resultant velocity is a horizontal vector, positive forward in the stern-to-bow sense, and is zero when the boat is at rest.

### Terminology

#### Wetted area

The wetted area is the principal wetted area of the bottom. The principal wetted area of a planing craft is the pressure surface of the bottom including the area aft of the spray root, between the chines and forward of the transom. It does not include the area covered by the spray sheet nor the side wetting.

The term wetted area is used to emphasize that it is the actual wetted area and not a projected area.

#### Longitudinal and lateral forces

The longitudinal and lateral forces are defined in Appendix C. Generally these forces are horizontal vectors fixed in the craft. The longitudinal force is parallel to the longitudinal axis of the craft and is positive aft. The lateral force is perpendicular to the longitudinal force and is positive to starboard.

#### Drag and side-force

The drag and side force are horizontal vectors oriented with respect to the resultant velocity. The drag, which is synonymous with resistance, is a force vector parallel and opposite to the resultant velocity. The side-force acts at right angles to the velocity and is positive to starboard.

## INTRODUCTION

The Davidson Laboratory is conducting a series of planing boat studies in support of the U.S. Coast Guard's pursuit of R&D projects which will enable it to evaluate advanced marine vehicles and advanced technologies which enhance the effectiveness of ship resources. The experimental results obtained at the Davidson Laboratory are intended to contribute to a relevant technical base for the evaluation of vessels which are in service and for designs which are being considered for service.

The objective of this research is to obtain basic hydrodynamic information about planing hulls through the use of captive model tests. This information is required for the study of the transverse stability, yaw/roll stability, course keeping, maneuvering and control of planing hulls, and for the study of seakeeping, and the loss of speed in a seaway, of planing hulls. The Coast Guard feels that this information will be of particular value to individuals or institutions that are developing theories or procedures for the numerical determination of the forces and moments exerted on a planing hull that is maneuvering at planing speeds.

The research results presented in this report are concerned with the directional stability characteristics of two prismatic planing hull models having deadrise angles of 10 and 20 degrees. The models are idealizations of patrol boats having a LBP of 100 ft, a beam of 20 ft and a displacement of 100 long tons. The results of captive model tests are reported, including both straight course tests and rotating arm tests. The models were tested over ranges of trim, yaw and roll angles at three speeds and one displacement. The effect of rudders on the straight course characteristics of both models was also investigated. This was done to obtain data to determine if the effective hydrodynamic angle of attack was equal to the geometric angle of attack as determined by kinematics. The effects of propellers was not investigated.

Measured quantities included the drag, side-force, and the roll, pitch and yaw moments. The displacement remained constant on the models, which were free to heave. Underwater photographs were taken of the hulls in each condition for the purpose of determining the wetted lengths and wetted areas of the underside of the planing surfaces.

The data are presented in tabular form in both "wind axes" (see Appendix C) and body axes, and in model scale and non-dimensional units. The

results form a considerable data base of approximately 2,500 data points and therefore because of the mass of data, and funding limitations, there is little graphical presentation or analytical discussion of the results.

## MODELS

The model series was designed at the Davidson Laboratory and approved by the Coast Guard. It is intended to provide for variations in deadrise and bow form. The parent of the model series is a 20 degree deadrise prismatic hull with flat sections and a length-beam ratio of 5. The parent model is shown on Figure 1. It is a 1/26.66-scale model representing a boat with a design waterline length of 100 feet displacing 100 long tons. The 10 degree deadrise hull is shown on Figure 2. Hull characteristics are given in Table 1.

The forebody is fair and representative of bow shapes that may be expected to be found on patrol boats in service at this time. The after 50% of the hull is a pure prismatic form of constant deadrise with vertical sides. The intersection of the forebody with the prismatic afterbody is smooth and fair without abrupt changes in curvature at the transition. The transom is a plane surface normal to the keel. The use of flat and ruled surfaces is designed to provide aid to those interested in developing theories or numerical schemes for predicting the forces and moments on a planing hull that is maneuvering at planing speeds.

The models were built of sugar pine with 3/8 inch wall thickness, glued with a powdered resin, water-resistant glue. Templates were made from the lines drawing and used during model construction. They were fitted to the models so that no light showed between the template and the model. The finish of the models included the application of one coat of Watco penetrating waterproof sealer, five coats of Lenmar varnish with catalyzed hardener rubbed down between coats: the first coat being dry-sanded and all subsequent coats wet-sanded. The bottom of the model was given two white spray coats and finally the entire model was wet-sanded.

The bottom of the model was striped to assist in determining the keel and chine wetted lengths from the underwater pictures. Lines were ruled along the keel and chine, and tick marks were placed along these lines at one inch intervals. Every fifth line was connected from chine to chine. At one point the underside of the 20 degree deadrise hull had to be re-finished and

the tick marks were replaced at 0.1 beam intervals, to facilitate reading non-dimensional wetted lengths. This applies to the underwater pictures of the 20 degree hull on straight course and at the 16 ft radius. Caution should therefore be used in reading the wetted lengths from the underwater pictures of the 20 degree deadrise hull.

Spray strips were fitted at the model chines running forward from Station 5 to the stem. Tests of the models without spray strips, at zero trim and finite yaw, generated sheets of green water which inundated the model and apparatus, and often tended to sink the model. In order to ensure clean separation of the water from the chine, strips of brass shim stock were also fitted at the chines from Station 5 to the transom. These brass strips extended vertically downward from the model chine by  $1/32$  of an inch.

Twin rudders were made and fitted to the model to determine the rudder effectiveness during the straight course tests. As indicated on Figures 1 and 2 the rudders were mounted normal to the bottom with the rudder post at Station 9.25. These are straight taper rudders with the rudder post at 20% of the chord; their particulars are given in Table 1. When the rudder tests were completed, the rudders were removed and the holes for the rudder stocks were sealed.

The models' decks were covered and sealed with clear lucite. An opening was left at Station 5 for attachment to the towing apparatus and to allow access for setting the trim and roll angles. This opening was then sealed by means of a thin rubber collar between the bottom of the balance and the deck. This is shown in the photograph of the model undergoing straight course tests in Figure 6.

#### APPARATUS AND INSTRUMENTATION

A pitch and roll pivot box, with provision for setting and locking the trim and roll angles, was mounted in the model. This pivot box is shown on Figure 3. For all of these tests the model was free to heave but fixed in trim, roll and yaw. The pitch axis was located 22.5 inches forward of the transom and 4.15 inches above the keel. The roll axis was parallel to and 4.15 inches above the keel. These axes are shown on Figures 1 and 2. Throughout this report quantities are given either in model scale or in units of beam. Since the beam of the models is 9 inches, the co-ordinates of the tow point are



2.5 beams forward of the transom and 0.46 beams above the keel.

A five-component balance was attached above the pivot box. The longitudinal and lateral forces, and the roll, pitch and yaw moments were measured in these tests, as indicated in the sketch in Appendix C. A graduated plate on top the balance was included for setting the yaw angle, and the balance rotated with the model in yaw but not in roll or trim. Heave was measured at the pitch pivot, and inclinometers were fitted to assist in setting the trim and roll angles. The five-component balance was attached to twin vertical heave poles in a standard free-to-heave apparatus which included provision for counter-weighting. The free-to-heave apparatus was mounted on a standard testing carriage which was either run on the Tank 3 rail, or attached to the Tank 2 arm. Thus the identical test apparatus was used for both the straight course and rotating arm tests.

The rotating arm tests were carried out in the Davidson Laboratory Tank 2 (75 ft by 75 ft by 4.5 ft deep) at 32 ft and 16 ft radius as shown on Figure 4. The straight course tests (also referred to as infinite radius tests) were performed in Tank 3 (313 ft long by 12 ft wide by 6 ft deep) as shown on Figure 7.

Underwater color photographs were taken of each test run both for the straight course tests in Tank 3 and the rotating arm tests in Tank 2. The view was taken from directly underneath the hull looking upward, and includes the run number and a side view of the hull, as well as the principal pressure area. The photographs are 35 mm color slides and provide an excellent record of the flow conditions about the hulls, as well as showing the wetted lengths. The complete set of color slides are an important supplement to this report. The pictures were taken through a mirror mounted at 45 degrees on the floor of the tank. A camera mounted in a vertical surface-piercing underwater transparent box took pictures of the model in the mirror, as well as a direct view of the model in profile. Flash units on the floor of the tank were used to illuminate the model. The camera and flash were triggered by the passage of the model over the mirror. The rail in Tank 3 is equipped with a counter system which indicates the exact location of the carriage on the overhead rail. Similarly the drive shaft in Tank 2 is equipped with a shaft encoder which indicates the position of the arm. These features make it relatively easy to detect when the model is opposite the camera and to take the photographs when the model is well positioned in the mirror.

Examples of the underwater photographs are included on Figures 5 and 6. The flow about a planing hull making a turn in a rolled attitude is more complicated than on straight course. The picture in Figure 5 is relatively straightforward. However Figure 6 shows a complex situation where the boat is yawed out of the turn so that the flow over the port side has separated all the way along the keel, and substantial air ingestion and aeration is present. Such conditions make the identification of the wetted area quite difficult.

A video camera was mounted above, forward and to port of the model in both Tanks 2 and 3, and a video recording was made of each run. The video tapes and underwater pictures have been sent to the U.S. Coast Guard R&D Center at Avery Point, Connecticut.

#### TEST PROCEDURE

After the apparatus was setup, the instrumentation was calibrated in place, prior to testing. Known loads and moments were applied to the five component balance, and known displacements to the motion transducers. Combinations of loads and moments were applied to the balance in both the positive and negative sense. The following ranges of calibration were covered:

|              |          |
|--------------|----------|
| Drag         | 30 lb    |
| Side-force   | 44 lb    |
| Roll moment  | 25 lb-ft |
| Pitch moment | 25 lb-ft |
| Yaw moment   | 44 lb-ft |

During calibration the outputs from the transducers were fed to the on-line computer, where a least-squares linear regression analysis was performed. All the calibrations were linear and the rates were stored for use during data collection. The calibrations were checked daily by the application of deadweights applied at a compound angle so as to cause simultaneous deflections in all the transducers. The data acquisition and processing was carried out by the on-line Masscomp computer using a program package designed by Davidson Laboratory known as DAP5. This program digitizes analog signals from the instruments at 250 Hz, and records them on disk in digital form during the test run. After the run the processing programs are

called upon to process the data according to user specified parameters. The model was setup for test in the following sequence. With the model at zero trim, that is with the keel horizontal, and at zero roll, the yaw angle was set by rotating the model in the horizontal plane; then the trim angle was set in the vertical plane; finally the roll angle was set by rolling the model about its longitudinal axis. Zeroes were taken with the model in the air at the yaw, trim, and roll angles. The model was then lowered into the water, and a zero speed run was made to measure the hydrostatic forces and moments acting on the model. The model was then accelerated up to the required speed, data were acquired in the data trap by scanning all channels at 250 Hz, and the results were converted into engineering units and stored in the computer. An underwater photograph was taken at the end of the data trap, the model was decelerated and returned for the next run. Speeds were computed from the time taken to travel through the data trap. Plots of the measured data were made at tankside to monitor the results.

For the straight course tests the data trap was set at 50 ft, that is 13 boat lengths. The rotating arm tests were run in the clockwise direction and the data trap was set up in the fourth quadrant.

Air tare tests were run with the model in the air on straight course and on the rotating arm. The test ranges of speed, radius, and yaw, trim and roll angles were covered to determine the aerodynamic and centrifugal forces and moments. These forces and moments were later subtracted from the total forces and moments measured with the mode in the water.

#### TEST PROGRAM

The displacement for all the tests represented 100 long tons full size: this corresponds to a beam loading of 0.4375, or a model displacement of 11.49 lb. Calm water tests were run on straight course and on the rotating arm at 16 ft and 32 ft radius. The radius of turn is measured in the horizontal plane and refers to the radius at the tow point. The non-dimensional angular velocity,  $r' = L/R$ , where  $L$  is the LBP of the boat, and  $R$  is the radius of the turn, provides a convenient means of identifying the non-dimensional radius. Tests on straight course and at radii of 32 ft and 16 ft correspond to non-dimensional angular velocities of 0, 0.117 and 0.234 respectively. The following matrix of conditions was used for the tests of each model:

| Test type                     | <u>Straight Course</u>       | <u>Rotating Arm</u>           |
|-------------------------------|------------------------------|-------------------------------|
| Model configuration           | Unappended                   | Unappended                    |
| Deadrise, degrees             | 10, 20                       | 10, 20                        |
| Rate of turn, L/R             | 0                            | 0.117, 0.234                  |
| Speed, Cv                     | 0, 1.5, 3, 4                 | 0, 1.5, 3, 4                  |
| Trim, degrees                 | -2, 0, 3, 6                  | 0, 3, 6                       |
| Roll, degrees                 | -10, 0, 10, 20               | -10, 0, 10, 20                |
| Yaw, degrees                  | 0, 5, 10, 15                 | -15, -10, -5,<br>0, 5, 10, 15 |
| Model configuration           | Twin rudders                 |                               |
| Deadrise, degrees             | 10,20                        |                               |
| Rate of turn                  | 0                            |                               |
| Speed, Cv                     | 1.5, 3, 4                    |                               |
| Trim, degrees                 | 3                            |                               |
| Yaw, degrees                  | 0                            |                               |
| Roll, degrees                 | 0                            |                               |
| Rudder deflection,<br>degrees | -20, -15, -10, -5, 0, 15, 20 |                               |

During the tests the water temperature in both tanks was maintained at a value of 71.5°F which was checked twice daily.

#### DATA PROCESSING

The test data were processed to meet several requirements. These include 1) a tabulation of the "raw" data on a day by day, run by run basis; 2) presentation of the data in a body coordinate system with origin at the intersection of the keel with the transom; and 3) presentation of the body coordinate data in non-dimensional form. There was also a requirement to illustrate the data reduction process, and to present the transformation equations from the balance coordinate system to the body coordinate system. These requirements were met in the following manner. 1) Each run is given a unique sequence number, and therefore a listing of the run numbers and test conditions satisfies the need for a run by run record. This is included in Appendix B, which is the Chronological Run Directory. The run numbers are

assigned sequentially by the computer, and a "run" identifies a data taking event which is not necessarily a run down the tank. Thus in Appendix B some run numbers have the prefix "DZ", which indicates that the data were taken at zero speed, while others are prefaced by "DR", which denotes a run taken for checking purposes. The raw data were taken to be the dimensional model data in "wind axes". The wind axes move with the model, have a horizontal and vertical orientation, and have their origin at the tow point; the x-axis is parallel and opposite to the resultant velocity, the y-axis is positive to starboard, and the z-axis is positive upward. The wind axes and balance measurement axes coincide at zero yaw angle. The data in wind axes including the air tares, are presented in Appendix A, and represent the raw data. The air tares in the wind axes were analyzed and removed from the raw data. The net hydrodynamic forces and moments are presented in model scale dimensional form in Table 11. These data were then transformed to body axes, with origin at the tow point, and tabulated in Table 12. These dimensional data were then transferred to an origin at the intersection of the keel with the transom, as given in Table 13. 3) The body axis data from Table 13 with origin at the keel-transom intersection, were non-dimensionalized and are presented in Table 14.

The various axes systems are described in Appendix C, together with the transformation equations and non-dimensionalizing scheme. Forces are normalized with respect to the product of the dynamic pressure and the square of the beam, while moments are normalized by the product of the dynamic pressure and the cube of the beam. The presentation of the data at various stages, together with the transformation equations, provides a clear audit trail between the raw data and the final results, and illustrates the data reduction process.

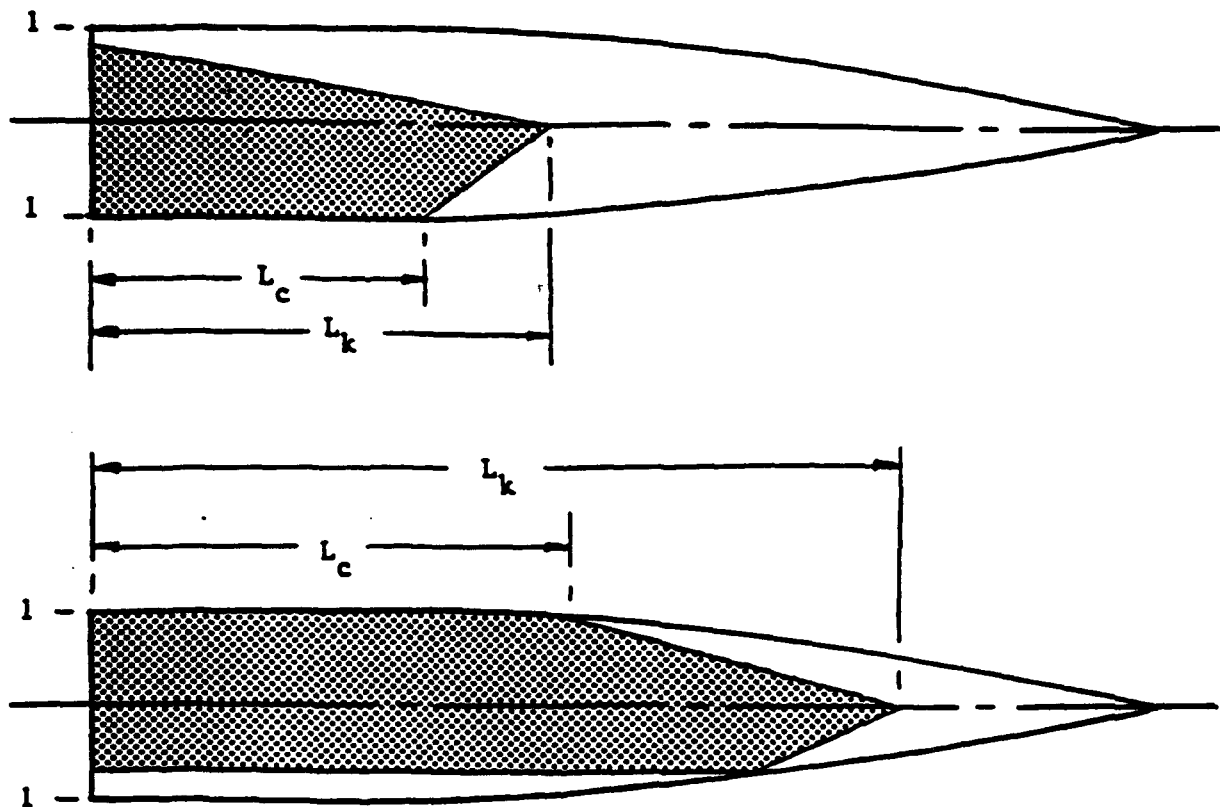
#### Air Tares

The first step in the data processing is to identify and remove the forces and moments due to centrifugal and aerodynamic forces. Since these two forces tend to be parallel to the axes of the wind axis system, all the data were transferred to wind axes. The "air tare" results were plotted and suitable equations identified to represent them. A regression analysis of the "air tare" data taken with the model in the air was performed, and the

equations adopted for the air tare forces and moments are given in Appendix C. Separate analyses were made of the straight course and rotating arm data, and for the 10 degree and 20 degree deadrise hulls. As a check on these fits, the air tare results were themselves corrected by subtracting the calculated forces and moments, and examining the residuals. These were sufficiently small to indicate that a satisfactory fit had been obtained. These same equations were then applied to the data obtained with the models in the water.

### Wetted Area

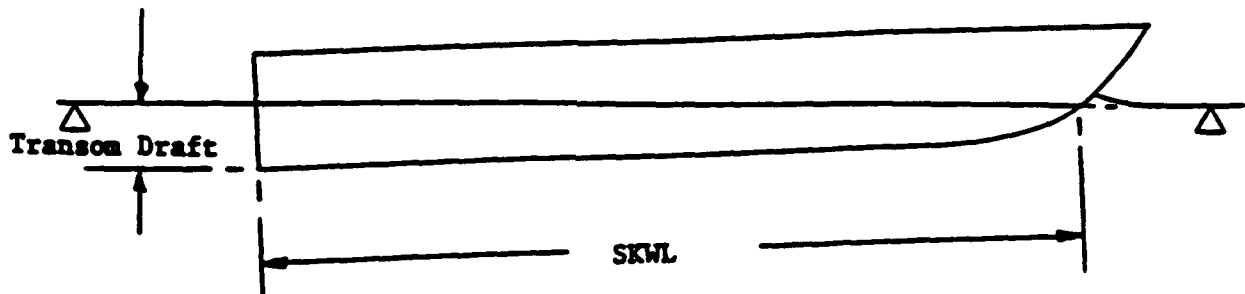
The underwater pictures were used to record the wetted area of the hulls in both the straight course and rotating arm tests. Due to the attitude of the hulls when rolled in a turn, it was necessary to read both the port and starboard wetted chine lengths, as well as the keel wetted length. The general underwater appearance is illustrated in Sketch A:



Sketch A - Underwater Wetted Areas

In cases where the chines were dry, because either the stagnation line crossed the transom or the flow separated before reaching the chine, the fraction of the beam at transom that was wetted was recorded. For each run, the wetted areas were calculated from the observed keel and chine wetted lengths, and the transom wetted width, together with the hull girths from chine to chine. In those cases where side wall wetting occurred, the wetted side wall area was not measured. The tabulated wetted areas are actual wetted areas and not vertically projected areas.

The readings from the heave and trim transducers were used to calculate the transom draft (TD) and the "static keel wetted length" (SKWL), which is the keel wetted length without allowing for wave rise. The dynamic keel wetted length from the underwater photographs may be correlated with the SKWL, which provides a means of fairing these data. The transom draft is defined as the draft of the keel at the transom relative to the still water surface. Both TD and SKWL are illustrated in Sketch B. The values of SKWL are included in the wetted area tables, Table 4, and those of TD in Table 5.



Sketch B - Transom Draft (TD) and Static Keel Wetted Length (SKWL)

## RESULTS

The chronological run directory with the test parameters for the 3312 test runs performed during the course of the test program is presented in Appendix B. This is a simple sequential listing of the runs made for each hull, showing the computer-assigned Run Number and the test conditions including: radius of turn, the set values of the trim, roll and yaw angles, and the observed test speed. The hydrostatic forces and moments were measured at zero speed for each hull attitude and these runs have the prefix "DZ". Run numbers with the prefix "DR" were general made for checking purposes and were discarded.

It is obviously desirable to impose order on such a mass of data by sorting it for presentation purposes. The results naturally divide into two groups, one for each value of hull deadrise. Within each of these groups the runs may be ordered by the radius of turn and the test speed. Lastly the model attitude in trim, roll and yaw is considered. Consequently the results have been sorted and are presented according to the following hierarchy:

Deadrise  
L/R  
Cv  
Trim  
Roll  
Yaw

The results are presented in a series of tables as described in the "Data Processing" section. In these tables the results have been sorted, and assigned to a table designation which is designed to facilitate the location and retrieval of specific results. The table code is as follows:

Table designation - nn:drs:p

where      nn denotes table number  
              d denotes deadrise: 1 = 10 degrees, 2 = 20 degrees  
              r denotes angular velocity L/R: 0 = 0, 1 = 0.117, 2 = 0.234  
              s denotes speed coefficient Cv: 0 = 0, 1 = 1.5, 3 = 3, 4 = 4  
              p denotes page number in a table: either 1 or 2

The first application of this table designation is to present an index to all the test runs in the form of a Run Directory in Tables 2 and 3. Table 2 applies to the unappended hulls, and Table 3 applies to the straight course rudder tests. Table 2 summarizes on one page the values of trim, roll and yaw that were tested at one combination of deadrise, angular velocity and speed. This table shows that some test conditions, usually at zero trim, had to be omitted due to model sinkage, as will be discussed later. Similarly some runs are flagged with an asterisk because they may have been too close to the heave stop.



The wetted area data from the underwater pictures are next presented in Table 4. The entries in the wetted area tables are presented in exactly the same sequence as in the subsequently presented force and moment tables, to facilitate linking the results together. The occasional blank line occurs when a duplicate data run was made without a corresponding underwater picture; and in a very few instances the pictures did not come out.

The wetted area is given in model dimensional units, and the tabulated values include: the run number, the trim, roll and yaw angles, the keel and starboard chine wetted lengths in model inches, the fraction of the starboard transom that is wet, the port chine wetted length and the fraction of the port transom that is wet. The total wetted area is given in model square feet, followed by the starboard and portside contributions. The SKWL is included for comparison with the dynamic keel wetted length.

The main hydrodynamic stability results are presented in Tables 5 to 8. These tables present respectively: the dimensional model data in wind axes with origin at the tow point, the dimensional model data in body axes with origin at the tow-point, the dimensional model data in body axes with origin at the keel at transom, and the non-dimensional data in body axes with origin at the keel at transom. The tabulated values include: the run number, the trim, roll and yaw angles, the axial, lateral and vertical forces X, Y, and Z, and the roll, pitch and yaw moments K, M, and N. The values of speed, heave, and transom draft are included in Table 5 and in the raw data tables of Appendix A.

The corresponding rudder stability data are presented in Tables 9 to 12. The tabulated values for these straight course tests at 3 degrees trim, and zero roll and yaw, include: the run number, the rudder deflection, the speed, and the forces and moments.

## DISCUSSION OF RESULTS

The object of this report is to present the considerable data base obtained from these free-to-heave, fixed trim, roll and yaw tests of the two deadrise models at one displacement and three speeds. A meaningful analysis of this data is clearly desirable, however it is outside the scope of this report. Three topics deserve comment. These include the use of the body axes data, the unusual behavior of the model at zero trim and large yaw angle with increasing speed, and the effect of forward speed on roll stiffness.

While the rotating arm tests were made with zero pitch and roll angular velocity in wind axes, finite values of these angular velocities are induced in body axes due to the trim and roll angles. Moreover the operating conditions of the models are given in terms of the resultant angular yaw velocity in the horizontal plane, and the resultant linear horizontal velocity at the tow point which is located 2.5 beams forward of the transom and 0.46 beams above the keel. These distinctions should be borne in mind when using the body axes system with origin at the pivot and at the transom.

During the rotating arm tests of the 20 degree model at zero trim and 15 degree yaw angle it was observed that the draft increased with speed. This is contrary to expectation because a planing craft usually lifts out of the water as the speed is increased. On further investigation it was found that, at zero trim and at  $C_v$ 's of 3 and 4, the draft also increased as the yaw angle increased. Furthermore, at combinations of large negative yaw with positive roll, the model was inundated with water and would have sunk had it not been for the heave stop. The heave stop was a mechanical stop on one heave pole which was set to prevent the model from sinking by more than an inch from its static floating position.

The increase of draft with speed at zero trim and -10 degrees yaw is shown in the following table. This is for the 20 degree hull turning at  $L/R = 0.117$ , at 10 degrees roll, and the data come from Tables A1.210.1, A1.211.1, A1.213.1 and A1.214.1

|         |       |       |       |       |
|---------|-------|-------|-------|-------|
| Run     | 534   | 535   | 536   | 537*  |
| $C_v$   | 0     | 1.5   | 3.0   | 4.0   |
| TD/beam | 0.202 | 0.267 | 0.283 | 0.302 |

The unusual effect of yaw angle at zero trim is illustrated by the following table of transom draft at  $C_v = 3$  taken from Table A1.113.1:

|          |       |       |       |       |       |
|----------|-------|-------|-------|-------|-------|
| Run      | 666*  | 662   | 650   | 654   | 658*  |
| Yaw, deg | -10   | -5    | 0     | 5     | 10    |
| TD/beam  | 0.304 | 0.219 | 0.200 | 0.230 | 0.307 |

where the asterisk indicates when the model was close to the heave stop.

Because of this anomalous behavior at zero trim it was decided to eliminate the -2 degrees trim condition from the rotating arm test program, and to curtail the zero trim tests where it seemed advisable at the larger yaw angles. While similar behavior was later noted during the straight course tests, where once again the draft increased with increasing yaw angle at the higher test speeds, it proved feasible to retain the -2 degrees trim test condition.

Once alerted to the possibility of sinkage at zero trim, care was taken *not* to report data where the model was clearly on the stop. Many of the zero trim runs had to be omitted for this reason. Even so, there were still some borderline cases where it was difficult to judge if the model was clear of the heave stop. Therefore it was decided to flag those runs with an asterisk to show that the heave stop may have interfered with the freedom to heave. The data from runs marked with an asterisk could show some anomalous behavior for this reason.

The zero trim runs on the rotating arm also generated some dramatic spray patterns, which were recorded on video tape. The video record of these tests constitutes an important complement to the tabulated results, and, like the underwater pictures, merits considerable study.

There has been a lot of speculation about the transverse stability of planing hulls at speed. An analysis of the present results at zero yaw angle was made by plotting the wind-axes roll moment against roll angle for both hulls at all speeds and radii. The roll moment tended to vary linearly with roll angle over the range of  $\pm 10$  degrees, thereby allowing for the calculation of a roll stiffness. The yaw angular velocity appeared to have little effect on roll stiffness. The variation of straight-course transverse stability with speed is shown on Figure 8 for trims of 0, 3, and 6 degrees at zero yaw. At zero trim the stability decreased significantly with speed. At the finite trims that are more representative of realistic operating conditions, however, the transverse stability actually increased with speed.

#### RECOMMENDATIONS

It is obviously most desirable that an in-depth analysis of the data presented herein be carried out. This is a unique data set in the history of planing boats and fills a long felt need. In order to make the results more

readily available, the great mass of data must be reduced to manageable form, which would be provided for by appropriate analysis.

As explained in the "Data Processing" section, it was required that the data be presented in both dimensional and non-dimensional form. The specified non-dimensional coefficients reported in Tables 14 and 18 are based on dynamic pressure acting on a characteristic area. The Coast Guard wishes to emphasize that their choice of normalization should not be taken to imply anything about the scaling laws that apply to these data. The issue of scaling is not addressed in this report. The choice of scaling techniques is the responsibility of the user.

Non-dimensional coefficients have many useful applications in Naval Architecture, none of which are associated with scaling. Hydrodynamic data are often presented in non-dimensional form in order either to facilitate the comparison of hull forms, a familiar example being the use of the resistance-weight ratio,  $R/W$ , or to achieve a "collapse" of the data. An example of the latter is the use of lift coefficients to report hydrofoil data, which results in characteristics which are substantially independent of speed.

When hydrodynamic data are normalized with respect the square of the velocity, it is often in the expectation of minimizing velocity effects. In the present case, however, since the resulting coefficients are markedly speed dependent, it is suggested that a different scheme be considered. The authors recommend the use of the NACA planing coefficients which are generally considered to be most suitable for reporting planing data in non-dimensional form. The NACA coefficients are included in the Nomenclature for reference.

Although the data are so extensive they are still limited to one displacement, corresponding to a beam loading of 0.4375, and to one length-beam ratio of 5. The effect of variation in displacement should be investigated for some subset of the parameter space. Similarly it would seem appropriate to investigate the effect of varying the length-beam ratio.

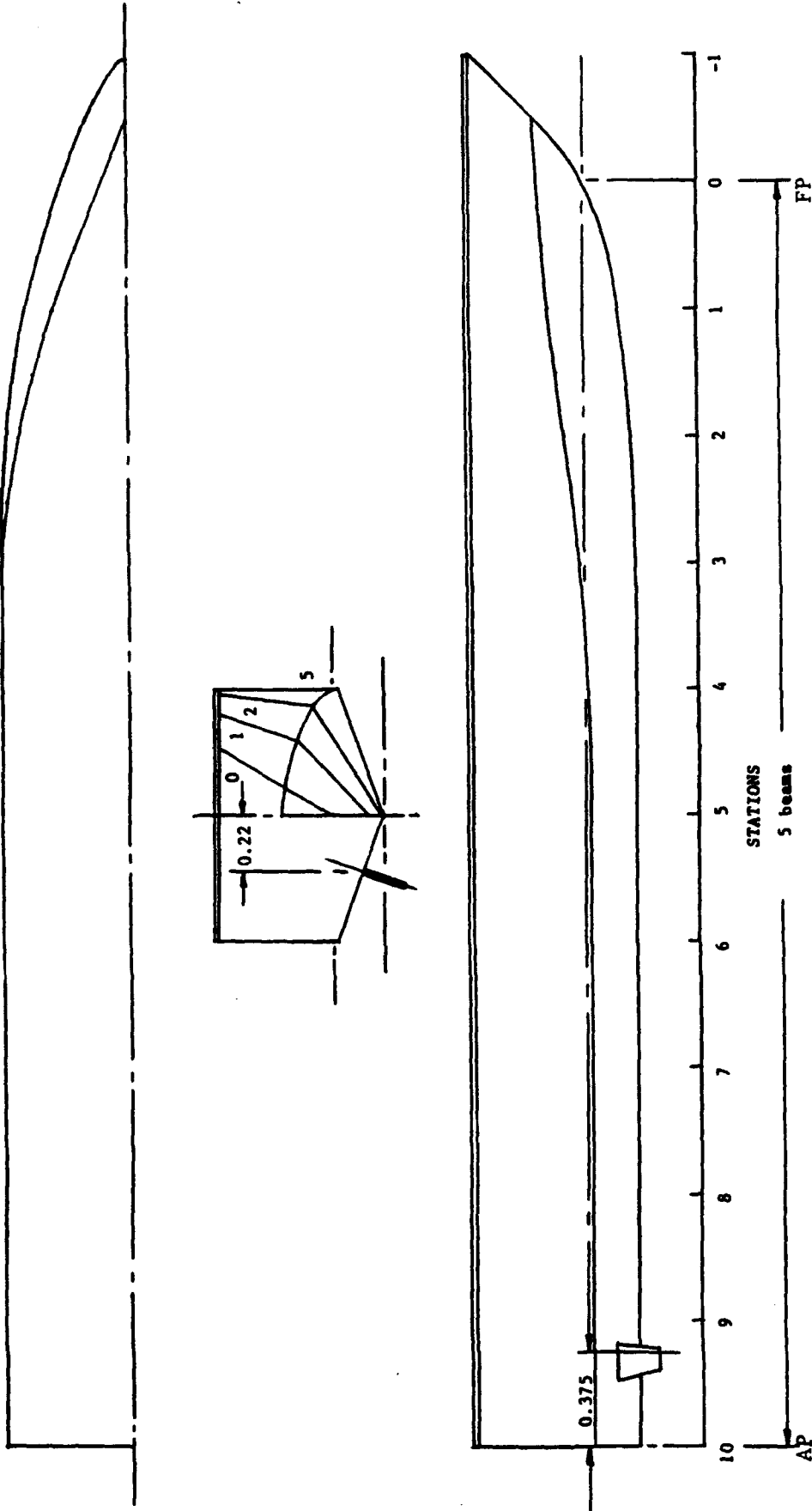


FIGURE 1 LINES OF 20° DEADRISE PARENT MODEL

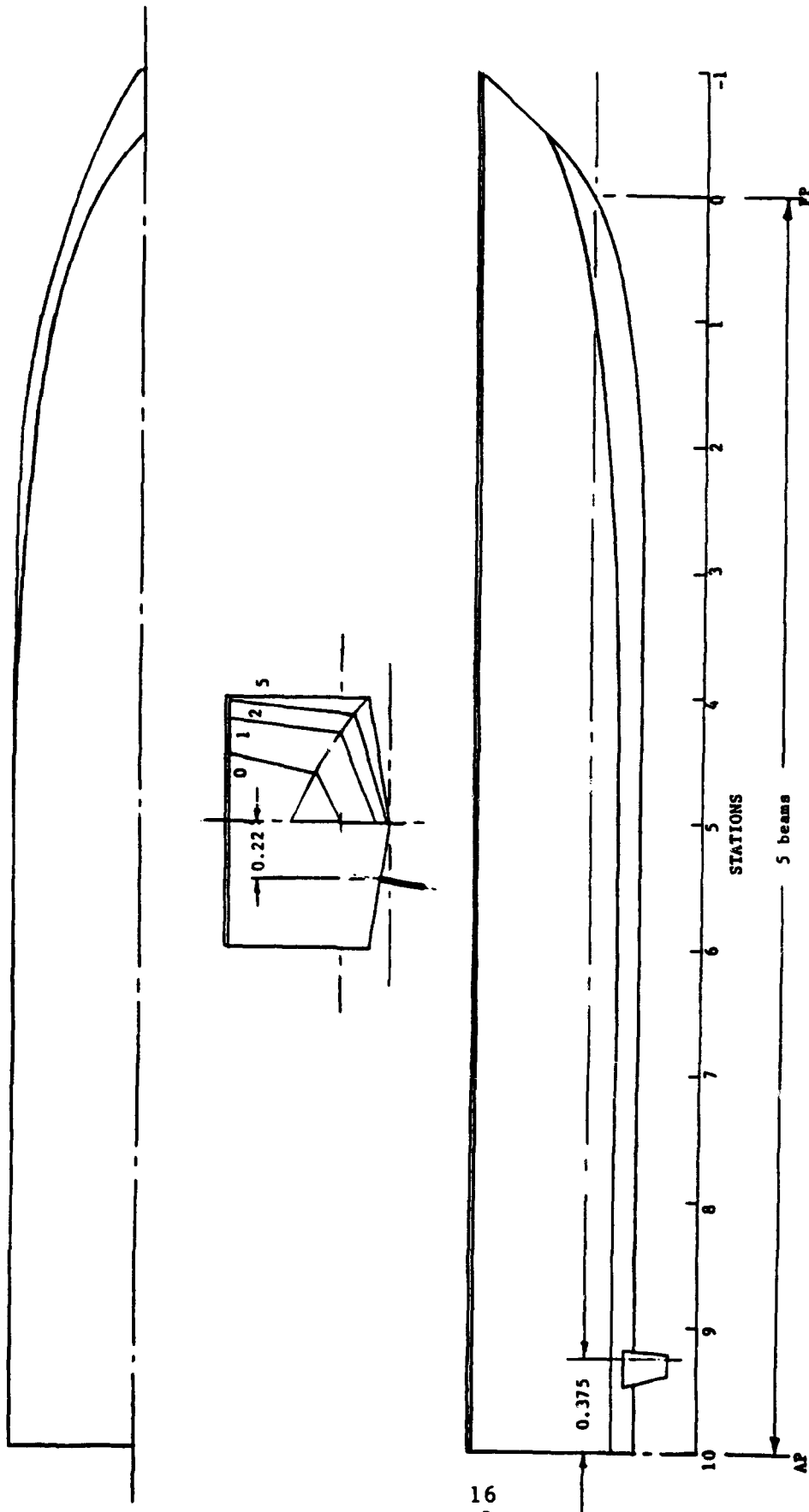


FIGURE 2 LINES OF 10° DEADRISE MODEL

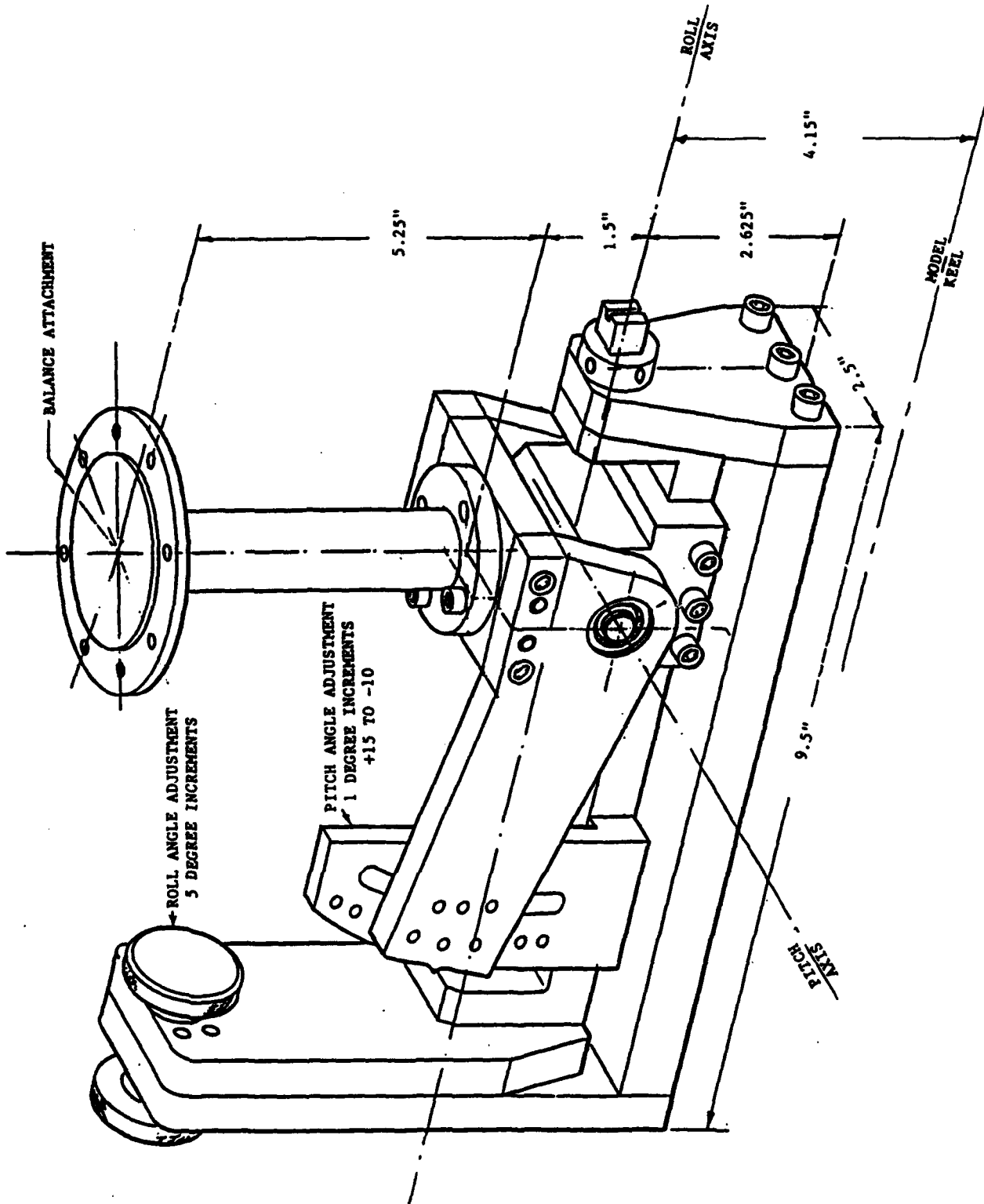
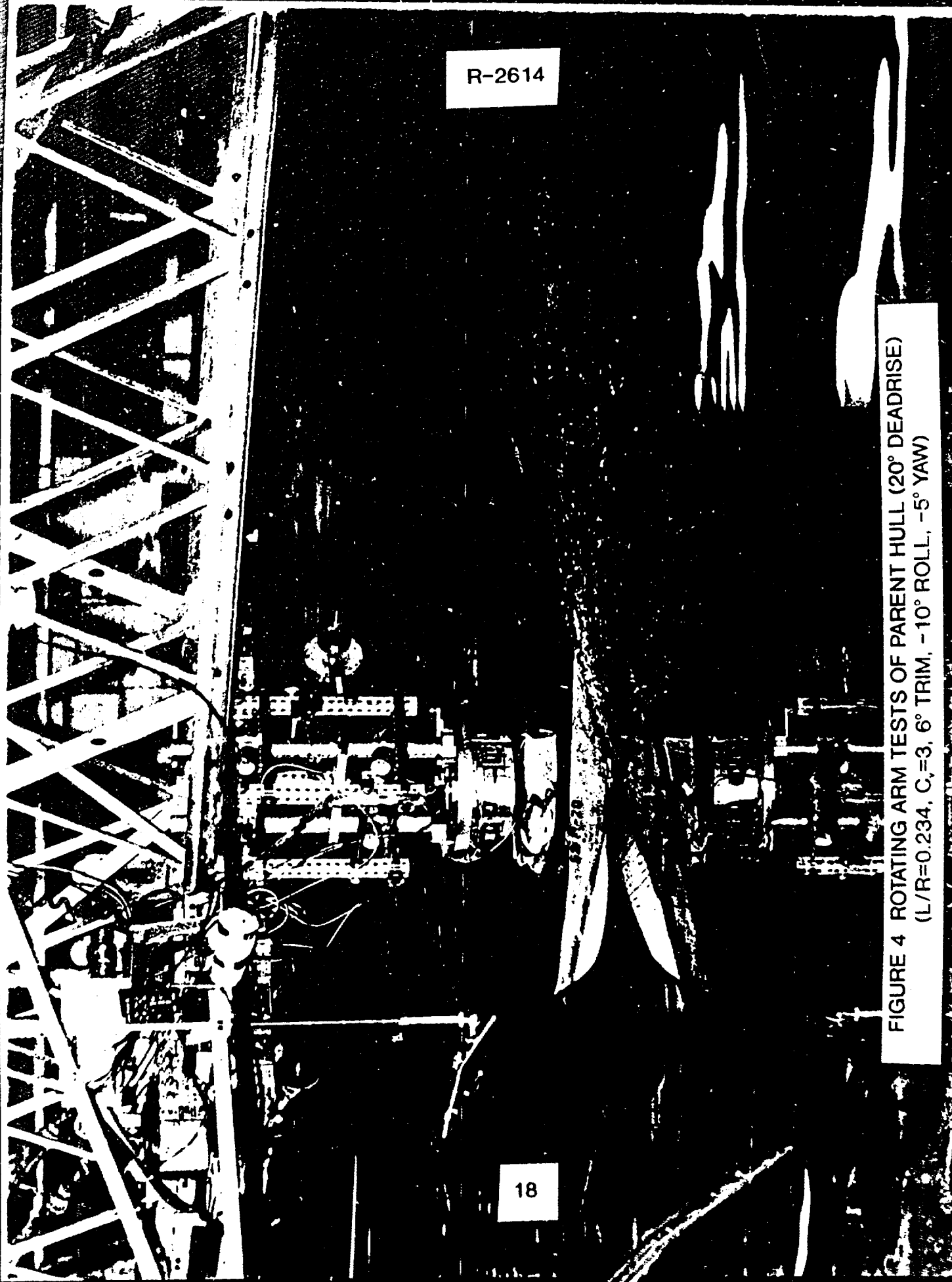


FIGURE 3 PITCH AND ROLL PIVOT BOX

R-2614

FIGURE 4 ROTATING ARM TESTS OF PARENT HULL (20° DEADRISE)  
(L/R=0.234, C<sub>r</sub>=3, 6° TRIM, -10° ROLL, -5° YAW)





R-2614



FIGURE 5 UNDERWATER PHOTOGRAPH OF 10° DEADRISE HULL  
(L/R=0.117, C=-3.3° TRIM, 10° ROLL, 10° YAW)

R-2614



FIGURE 6 UNDERWATER PHOTOGRAPH OF 20° DEADRISE HULL  
(L/W=0.234, C=3.3°, TRIM=20°, ROLL=15° YAW)

R-2614

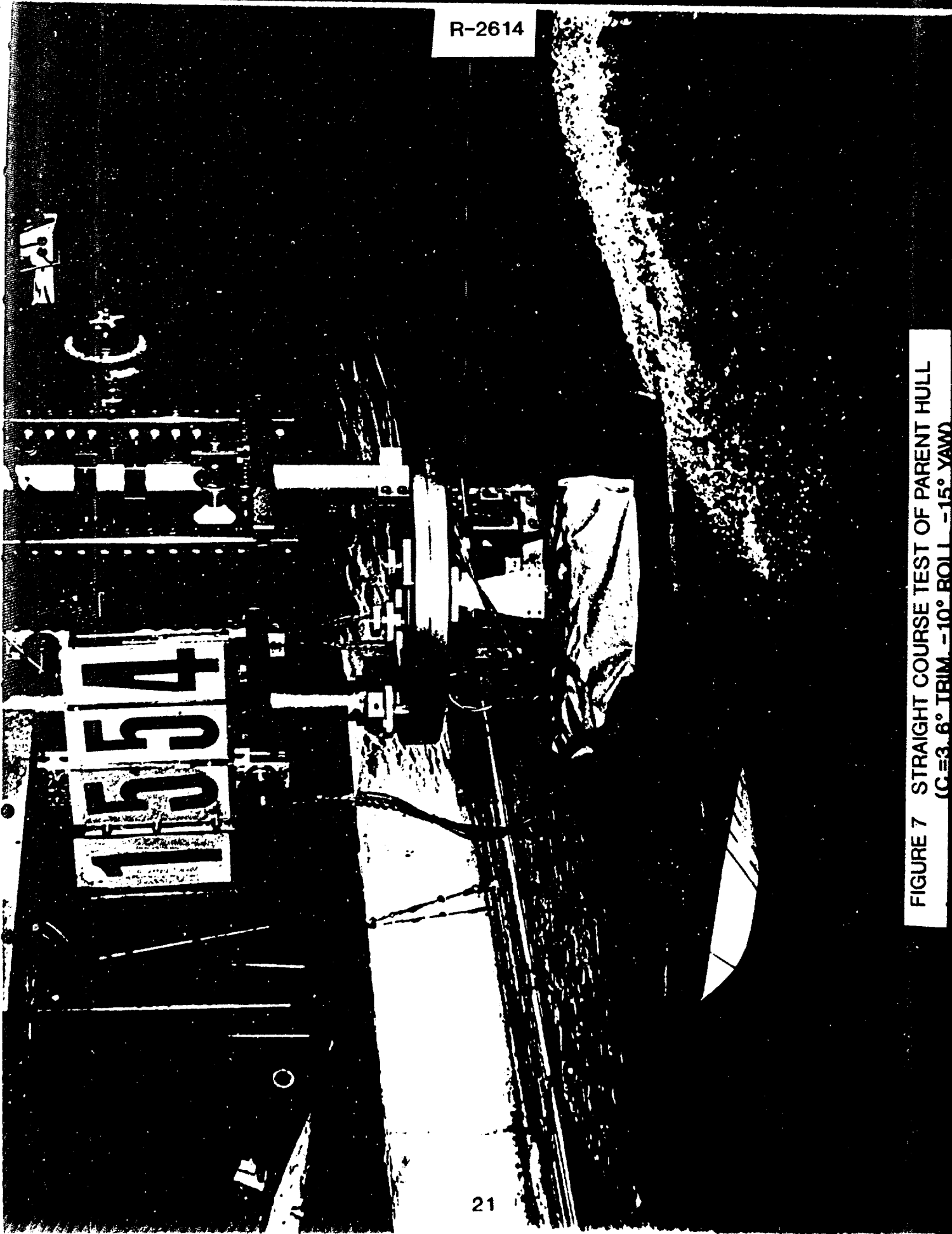


FIGURE 7 STRAIGHT COURSE TEST OF PARENT HULL  
(C=3.6° TRIM -10° ROLL -15° YAW)

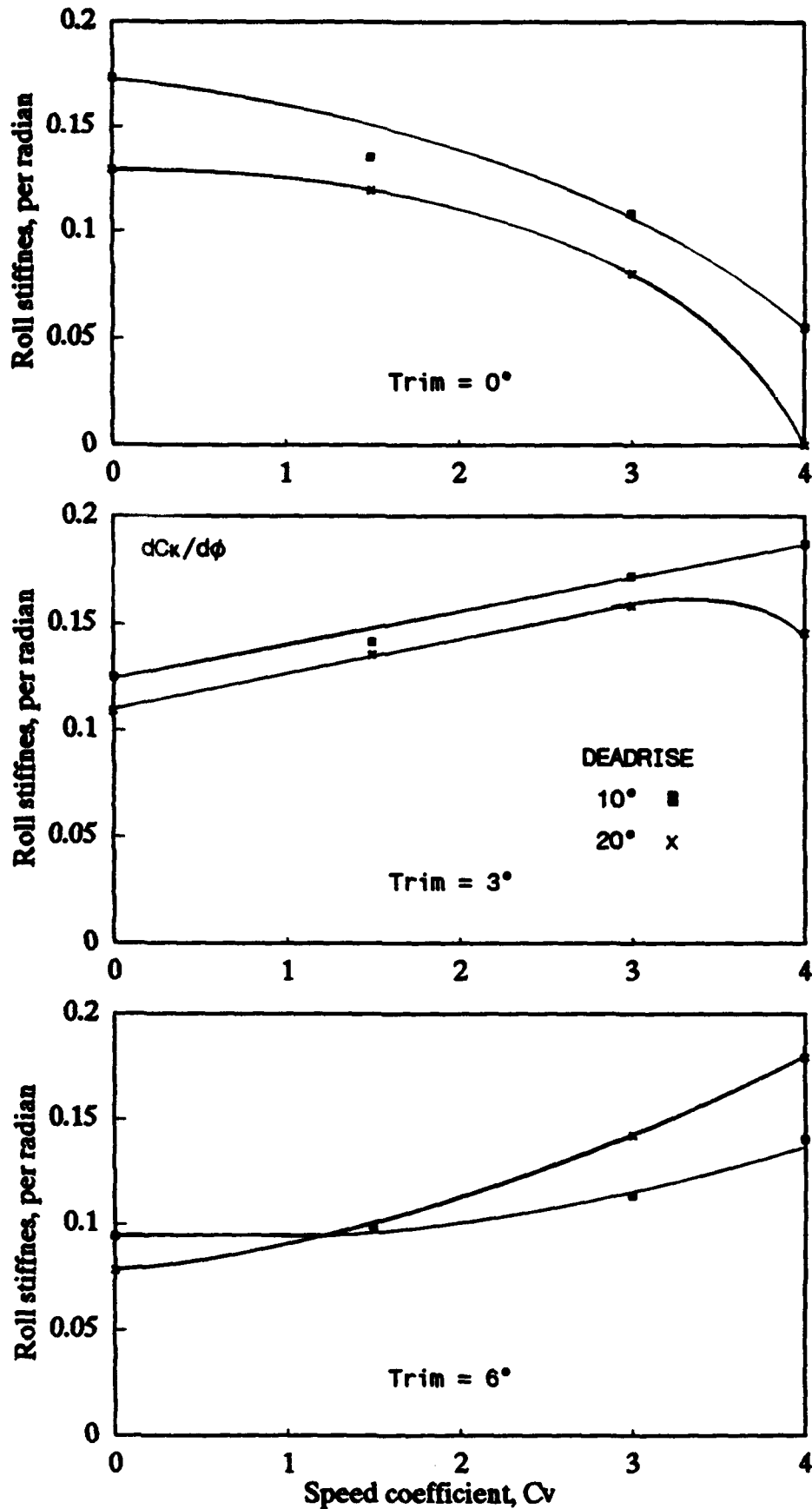


FIGURE 8 VARIATION OF STRAIGHT COURSE ROLL STABILITY WITH SPEED

TABLE 1

## TABLE OF PARTICULARS OF BOTH MODELS

|  | Model      | Full Size        |           |       |
|--|------------|------------------|-----------|-------|
| Scale  | 1/26.6     | 1                |           |       |
| Displacement, $\Delta$                           | 11.49 lb   | 100 long tons    |           |       |
| Load coefficient, $C_{\Delta}$                   | 0.4375     | 0.4375           |           |       |
| Beam   | 9 in       | 20 ft            |           |       |
| <b>Lengths</b>                                   |            |                  |           |       |
| Overall, LOA                                     | 50 in      | 110 ft           |           |       |
| Projected chine LP                               | 47.5 in    | 105 ft           |           |       |
| Design, DWL or LBP                               | 45 in      | 100 ft           |           |       |
| <b>Length-beam ratios</b>                        |            |                  |           |       |
| Overall  | 5.50       | 5.50             |           |       |
| Projected chine                                  | 5.25       | 5.25             |           |       |
| Between perpendiculars                           | 5.00       | 5.00             |           |       |
| <b>Towpoint</b>                                  |            |                  |           |       |
| Forward of transom                               | 22.5 in    |                  |           |       |
| Above keel                                       | 4.15 in    |                  |           |       |
| <b>Twin Rudders</b>                              |            |                  |           |       |
| Root chord                                       | 1.31 in    | 35 in            |           |       |
| Tip chord  | 0.75 in    | 20 in            |           |       |
| Span   | 1.58 in    | 42 in            |           |       |
| Sweepback angle                                  | 4.09 deg   | 4.09 deg         |           |       |
| Area per rudder                                  | 1.62 sq.in | 8.02 sq.ft       |           |       |
| <b>Rudder Section - offsets in percent chord</b> |            |                  |           |       |
| <b>Distance</b>                                  |            | <b>Thickness</b> |           |       |
| from L.E.  |            | t/c %            | from L.E. | t/c % |
| L.E.   | 0          | 0.0              | 50        | 11.3  |
|  | 5          | 10.0             | 60        | 10.0  |
|  | 10         | 11.8             | 70        | 8.3   |
|  | 20         | 12.4             | 80        | 6.5   |
|  | 30         | 12.4             | 90        | 4.7   |
|  | 40         | 12.1             | T.E. 100  | 3.0   |

TABLE 2.100.1

STRAIGHT COURSE RUN DIRECTORY  
FOR TABLES nn.100

10 deg deadrise - L/R = 0

Cv = 0

| YAW, deg → | -10           | -5 | 0            | 5    | 10   | 12   | 15   |
|------------|---------------|----|--------------|------|------|------|------|
| ROLL, deg  | Trim = -2 deg |    |              |      |      |      |      |
| ↓          |               |    |              |      |      |      |      |
| -10        |               |    | 2112         | 2116 | 2120 |      | 2122 |
| 0          |               |    | 2059         | 2065 | 2069 |      | 2070 |
| 10         |               |    | 2074         | 2078 | 2081 |      | 2083 |
| 20         |               |    | 2090         | 2094 | 2098 | 2108 | 2101 |
|            | Trim = 0 deg  |    |              |      |      |      |      |
| -10        |               |    | 1829         | 1833 | 1837 |      | 1843 |
| 0          |               |    | 1760         | 1764 | 1768 |      | 1773 |
| 10         |               |    | 1779         | 1783 | 1787 |      | 1792 |
| 21         |               |    | 1809         | 1814 | 1819 |      | 1823 |
|            | Trim = 3 deg  |    |              |      |      |      |      |
| -11        |               |    | 1918         | 1922 | 1926 |      | 1930 |
| 0          |               |    | 1850<br>1854 | 1856 | 1860 |      | 1864 |
| 10         |               |    | 1880         | 1884 | 1888 |      | 1894 |
| 21         |               |    | 1900         | 1904 | 1908 |      | 1912 |

\* Indicates model was close to heave stop

TABLE 2.100.2

STRAIGHT COURSE RUN DIRECTORY  
FOR TABLES nn.100

10 deg deadrise - L/R = 0

Cv = 0

| YAW, deg →     | -10 | -5 | 0            | 5    | 10           | 12 | 15   |
|----------------|-----|----|--------------|------|--------------|----|------|
| ROLL, deg<br>↓ |     |    |              |      |              |    |      |
|                |     |    | Trim = 6 deg |      |              |    |      |
| -10            |     |    | 2022         | 2026 | 2030         |    | 2034 |
| 0              |     |    | 1963         | 1967 | 1972         |    | 1976 |
| 10             |     |    | 1982         | 1986 | 1990<br>1993 |    | 1995 |
| 20             |     |    | 2002         | 2007 | 2011         |    | 2015 |

\* Indicates model was close to heave stop

TABLE 2.101.1

STRAIGHT COURSE RUN DIRECTORY  
FOR TABLES nn.101

10 deg deadrise - L/R = 0

Cv = 1.5

| YAW, deg →  | -10 | -5 | 0             | 5    | 10           | 12     | 15 |  |
|-------------|-----|----|---------------|------|--------------|--------|----|--|
| ROLL, deg ↓ |     |    |               |      |              |        |    |  |
|             |     |    | Trim = -2 deg |      |              |        |    |  |
| -10         |     |    | 2113          | 2117 | 2121         | 2123 * |    |  |
| 0           |     |    | 2060<br>2063  | 2066 | 2068         | 2071 * |    |  |
| 10          |     |    | 2075          | 2079 | 2082         | 2084   |    |  |
| 20          |     |    | 2091          | 2095 | 2099         | 2102   |    |  |
|             |     |    | Trim = 0 deg  |      |              |        |    |  |
| -10         |     |    | 1830          | 1834 | 1840         | 1844   |    |  |
| 0           |     |    | 1761          | 1765 | 1769         | 1774   |    |  |
| 10          |     |    | 1780          | 1784 | 1788<br>1789 | 1793   |    |  |
| 21          |     |    | 1810          | 1815 | 1820         | 1824   |    |  |
|             |     |    | Trim = 3 deg  |      |              |        |    |  |
| -11         |     |    | 1919          | 1923 | 1927         | 1931   |    |  |
| 0           |     |    | 1851<br>1855  | 1857 | 1861         | 1865   |    |  |
| 10          |     |    | 1881          | 1885 | 1889         | 1895   |    |  |
| 21          |     |    | 1901          | 1905 | 1909         | 1913   |    |  |

\* Indicates model was close to heave stop



TABLE 2.101.2

STRAIGHT COURSE RUN DIRECTORY  
FOR TABLES nn.101

10 deg deadrise - L/R = 0

CV = 1.5

| YAW, deg → | -10 | -5 | 0 | 5    | 10   | 12   | 15   |
|------------|-----|----|---|------|------|------|------|
| ROLL, deg  |     |    |   |      |      |      |      |
| ↓          |     |    |   |      |      |      |      |
| -10        |     |    |   | 2023 | 2027 | 2031 | 2035 |
| 0          |     |    |   | 1964 | 1969 | 1973 | 1977 |
| 10         |     |    |   | 1983 | 1987 | 1991 | 1996 |
| 20         |     |    |   | 2003 | 2008 | 2012 | 2016 |

Trim = 6 deg

\* Indicates model was close to heave stop

TABLE 2.103.1

STRAIGHT COURSE RUN DIRECTORY  
FOR TABLES nn.103

10 deg deadrise - L/R = 0

Cv = 3

| YAW, deg → | -15 | -10 | -5 | 0            | 5    | 10           | 15     |
|------------|-----|-----|----|--------------|------|--------------|--------|
| ROLL, deg  |     |     |    | Trim -2 deg  |      |              |        |
| §          |     |     |    |              |      |              |        |
| -10        |     |     |    | 2114         | 2118 |              |        |
| 0          |     |     |    | 2064         | 2067 |              |        |
| 10         |     |     |    | 2076         | 2080 |              |        |
| 20         |     |     |    | 2092         | 2096 | 2100         | 2103   |
|            |     |     |    | Trim = 0 deg |      |              |        |
| -10        |     |     |    | 1831         | 1835 | 1841         | 1845   |
| 0          |     |     |    | 1762         | 1766 | 1770 *       | 1775 * |
| 10         |     |     |    | 1781         | 1785 | 1790         | 1794   |
| 21         |     |     |    | 1811         | 1816 | 1821         | 1825   |
|            |     |     |    | Trim = 3 deg |      |              |        |
| -11        |     |     |    | 1920         | 1924 | 1928         | 1933   |
| 0          |     |     |    | 1852         | 1858 | 1862         | 1866   |
| 10         |     |     |    | 1882         | 1886 | 1890<br>1891 | 1896   |
| 21         |     |     |    | 1902         | 1906 | 1910         | 1914   |

\* Indicates model was close to heave stop

TABLE 2.103.2

STRAIGHT COURSE RUN DIRECTORY  
FOR TABLES nn.103

10 deg deadrise - L/R = 0

Cv = 3

| YAW, deg → | -15          | -10 | -5 | 0    | 5    | 10   | 15   |
|------------|--------------|-----|----|------|------|------|------|
| ROLL, deg  | Trim = 6 deg |     |    |      |      |      |      |
| ↓          |              |     |    |      |      |      |      |
| -10        |              |     |    | 2024 | 2028 | 2032 | 2036 |
| 0          |              |     |    | 1965 | 1970 | 1974 | 1978 |
| 10         |              |     |    | 1984 | 1988 | 1992 | 1997 |
| 20         |              |     |    | 2004 | 2009 | 2013 | 2017 |

\* Indicates model was close to heave stop



TABLE 2.104.2

STRAIGHT COURSE RUN DIRECTORY  
FOR TABLES nn.104

10 deg deadrise - L/R = 0

CV = 4

| YAW, deg → | -10          | -5 | 0    | 5    | 10   | 12 | 15   |
|------------|--------------|----|------|------|------|----|------|
| ROLL, deg  | Trim = 6 deg |    |      |      |      |    |      |
| ↓          |              |    |      |      |      |    |      |
| -10        |              |    | 2025 | 2029 | 2033 |    | 2037 |
| 0          |              |    | 1966 | 1971 | 1975 |    | 1979 |
| 10         |              |    | 1985 | 1989 | 1994 |    | 1998 |
| 20         |              |    | 2005 | 2010 | 2014 |    | 2018 |

\* Indicates model was close to heave stop

TABLE 2.110

 ROTATING ARM RUN DIRECTORY  
 FOR TABLES nn.110

10 deg deadrise - L/R = 0.117

Cv = 0

| YAW, deg → | -15          | -10        | -5         | 0                     | 5    | 10         | 15           |
|------------|--------------|------------|------------|-----------------------|------|------------|--------------|
| ROLL, deg  | Trim = 0 deg |            |            |                       |      |            |              |
| ↓          |              |            |            |                       |      |            |              |
| -10        | 753          | 749        | 745        | 732                   | 736  | 740        |              |
| 0          |              | 664        | 660        | 643<br>645 647<br>648 | 653  | 656        |              |
| 10         |              | 668<br>689 | 685        |                       | 672  | 676        | 681          |
| 20         |              | 728        | 724        | 706<br>707            | 711  | 715        | 720          |
|            | Trim = 3 deg |            |            |                       |      |            |              |
| -10        | 883          | 887        | 891        | 895                   | 899  | 903        | 907          |
| 0          | 802          | 798        | 794        | 759                   | 763  | 767<br>790 | 771<br>786   |
| 10         | 836          | 832        | 828        | 811                   | 816  | 820        | 824          |
| 20         | 875          | 870        | 853<br>867 | 841                   | 845  | 849        | 878          |
|            | Trim = 6 deg |            |            |                       |      |            |              |
| -10        | 1053         | 1049       | 1044       | 1011<br>1033          | 1040 | 1015       | 1019<br>1035 |
| 0          | 937          | 933        | 929        | 912                   | 917  | 921        | 925          |
| 10         | 978          | 974        | 970        | 954                   | 958  | 962        | 966          |
| 20         | 1002         | 998        | 994        | 982                   | 986  | 990        | 1006         |

\* Indicates model was close to heave stop

TABLE 2.111

 ROTATING ARM RUN DIRECTORY  
 FOR TABLES nn.111

10 deg deadrise - L/R = 0.117

Cv = 1.5

| YAW, deg →     | -15  | -10        | -5   | 0            | 5    | 10         | 15           |
|----------------|------|------------|------|--------------|------|------------|--------------|
| Trim = 0 deg   |      |            |      |              |      |            |              |
| ROLL, deg<br>↓ |      |            |      |              |      |            |              |
| -10            | 754  | 750        | 746  | 733          | 737  | 741        |              |
| 0              |      | 665        | 661  | 649          | 652  | 657        |              |
| 10             |      | 690        | 686  | 669          | 673  | 677        | 682          |
| 20             |      | 729        | 725  | 708          | 712  | 716        | 721          |
| Trim = 3 deg   |      |            |      |              |      |            |              |
| -10            | 884  | 888        | 892  | 896          | 900  | 904        | 908          |
| 0              | 803  | 799        | 795  | 760          | 764  | 768<br>809 | 772<br>789   |
| 10             | 837  | 833<br>840 | 830  | 812<br>813   | 817  | 821        | 825          |
| 20             | 876  | 871        | 854  | 842          | 846  | 850        | 879          |
| Trim = 6 deg   |      |            |      |              |      |            |              |
| -10            | 1054 | 1050       | 1045 | 1012<br>1034 | 1039 | 1016       | 1020<br>1038 |
| 0              | 938  | 934        | 930  | 913          | 918  | 922        | 926          |
| 10             | 979  | 975        | 971  | 955          | 959  | 963        | 967          |
| 20             | 1003 | 999        | 995  | 983          | 987  | 991        | 1007         |

\* Indicates model was close to heave stop

TABLE 2.113

 ROTATING ARM RUN DIRECTORY  
 FOR TABLES nn.113

10 deg deadrise - L/R = 0.117

CV = 3

| YAW, deg →     | -15        | -10   | -5         | 0            | 5          | 10         | 15           |
|----------------|------------|-------|------------|--------------|------------|------------|--------------|
| Trim = 0 deg   |            |       |            |              |            |            |              |
| ROLL, deg<br>& |            |       |            |              |            |            |              |
| -10            | 755<br>758 | 751   | 747        | 734          | 738        | 742        |              |
| 0              |            | 686 * | 682        | 650          | 654        | 658 *      |              |
| 10             |            | 691 * | 687        | 670          | 674        | 678        | 683          |
| 20             |            | 730 * | 726        | 709          | 713        | 717<br>718 | 722          |
| Trim = 3 deg   |            |       |            |              |            |            |              |
| -10            | 885        | 889   | 893        | 897          | 901        | 905        | 909 *        |
| 0              | 804        | 800   | 796        | 781<br>806   | 785<br>807 | 789<br>808 | 773<br>788   |
| 10             | 838        | 834   | 831        | 814          | 818        | 822        | 826          |
| 20             | 877 *      | 872   | 855<br>868 | 843          | 847        | 851        | 880          |
| Trim = 6 deg   |            |       |            |              |            |            |              |
| -10            | 1055       | 1051  | 1047       | 1013<br>1057 | 1041       | 1017       | 1021<br>1037 |
| 0              | 939        | 935   | 931        | 914          | 919        | 923        | 927          |
| 10             | 980        | 976   | 972        | 956          | 960        | 964        | 968          |
| 20             | 1004       | 1000  | 996        | 984          | 988        | 992        | 1008         |

\* Indicates model was close to heave stop



TABLE 2.114

 ROTATING ARM RUN DIRECTORY  
 FOR TABLES nn.114

10 deg deadrise - L/R = 0.117

CV = 4

| YAW, deg → | -15          | -10        | -5    | 0            | 5          | 10          | 15           |
|------------|--------------|------------|-------|--------------|------------|-------------|--------------|
| ROLL, deg  | Trim = 0 deg |            |       |              |            |             |              |
| ↓          |              |            |       |              |            |             |              |
| -10        | 756<br>757   | 752        | 748   | 735          | 739        | 743         |              |
| 0          |              | 667 *      | 663   | 651          | 655        | 659 *       |              |
| 10         |              | 692 *      | 688 * | 671          | 675        | 679<br>680  | 684          |
| 20         |              | 731 *      | 727 * | 710          | 714        | 719         | 723          |
|            | Trim = 3 deg |            |       |              |            |             |              |
| -10        | 886          | 890        | 894   | 898          | 902        | 906         | 910 *        |
| 0          | 805          | 801        | 797   | 762<br>793   | 766<br>792 | 770<br>791  | 774          |
| 10         | 839          | 835        | 829   | 815          | 819        | 823         | 827          |
| 20         |              | 873<br>874 | 869   | 844          | 848        | 852         | 881          |
|            | Trim = 6 deg |            |       |              |            |             |              |
| -10        | 1056         | 1052       | 1048  | 1014<br>1043 | 1042       | 1018        | 1022<br>1036 |
| 0          | 940          | 936        | 932   | 915<br>916   | 920        | 924         | 928          |
| 10         | 981          | 977        | 973   | 957          | 961        | 965         | 969          |
| 20         | 1005         | 1001       | 997   | 985          | 989        | 993<br>1010 | 1009         |

\* Indicates model was close to heave stop

TABLE 2.120

 ROTATING ARM RUN DIRECTORY  
 FOR TABLES nn.120

10 deg deadrise - L/R = 0.234

Cv = 0

| YAW, deg → | -15          | -10  | -5   | 0    | 5    | 10           | 15   |
|------------|--------------|------|------|------|------|--------------|------|
| ROLL, deg  | Trim = 0 deg |      |      |      |      |              |      |
| ↓          |              |      |      |      |      |              |      |
| -10        | 2471         | 2462 | 2458 | 2427 | 2431 | 2435         | 2454 |
| 0          | 2348         | 2344 | 2340 | 2315 | 2329 | 2336         |      |
| 10         |              | 2395 | 2390 | 2373 | 2378 | 2382         | 2386 |
| 20         | 2422         | 2419 | 2415 | 2399 | 2403 | 2407         | 2411 |
|            | Trim = 3 deg |      |      |      |      |              |      |
| -10        | 2599         | 2595 | 2590 | 2585 | 2603 | 2607         | 2611 |
| 0          | 2501         | 2497 | 2493 | 2477 | 2481 | 2485         | 2489 |
| 10         | 2535         | 2519 | 2515 | 2507 | 2511 | 2540         | 2545 |
| 20         | 2578         | 2574 | 2570 | 2566 | 2561 | 2556         | 2552 |
|            | Trim = 6 deg |      |      |      |      |              |      |
| -10        | 3309         | 3305 | 3301 | 3284 | 3288 | 3293         | 3297 |
| 0          | 2658         | 2654 | 2650 | 2615 | 2620 | 2642         | 2646 |
| 10         | 2688         | 2683 | 2679 | 2663 | 2667 | 2671         | 2675 |
| 20         | 2701         | 2705 | 2695 | 2709 | 2713 | 2717<br>2735 | 2738 |

\* Indicates model was close to heave stop

TABLE 2.121

 ROTATING ARM RUN DIRECTORY  
 FOR TABLES nn.121

10 deg deadrise - L/R = 0.234

Cv = 1.5

| YAW, deg → | -15          | -10          | -5   | 0            | 5    | 10           | 15     |
|------------|--------------|--------------|------|--------------|------|--------------|--------|
| ROLL, deg  | Trim = 0 deg |              |      |              |      |              |        |
| ↓          |              |              |      |              |      |              |        |
| -10        | 2472         | 2463         | 2459 | 2428         | 2432 | 2436         | 2455 * |
| 0          | 2349         | 2345         | 2341 | 2316<br>2318 | 2330 | 2335         |        |
| 10         |              | 2396         | 2391 | 2374         | 2379 | 2383         | 2387   |
| 20         | 2423 *       | 2420         | 2416 | 2400         | 2404 | 2408         | 2412   |
|            | Trim = 3 deg |              |      |              |      |              |        |
| -10        | 2600         | 2596         | 2591 | 2586         | 2604 | 2608         | 2612   |
| 0          | 2502         | 2498         | 2494 | 2478         | 2482 | 2486         | 2490   |
| 10         | 2536         | 2520         | 2516 | 2508         | 2512 | 2541         | 2546   |
| 20         | 2579         | 2575         | 2571 | 2567         | 2562 | 2557<br>2558 | 2553   |
|            | Trim = 6 deg |              |      |              |      |              |        |
| -10        | 3310         | 3306         | 3302 | 3285         | 3289 | 3294         | 3298   |
| 0          | 2659         | 2655         | 2651 | 2616         | 2621 | 2643         | 2647   |
| 10         | 2689         | 2684         | 2680 | 2664         | 2668 | 2672         | 2676   |
| 20         | 2702         | 2696<br>2697 | 2706 | 2710         | 2714 | 2718         | 2739   |

\* Indicates model was close to heave stop

TABLE 2.123

 ROTATING ARM RUN DIRECTORY  
 FOR TABLES nn.123

10 deg deadrise - L/R = 0.234

Cv = 3

| YAW, deg → | -15          | -10          | -5   | 0            | 5            | 10     | 15     |
|------------|--------------|--------------|------|--------------|--------------|--------|--------|
| ROLL, deg  | Trim = 0 deg |              |      |              |              |        |        |
| ↓          |              |              |      |              |              |        |        |
| -10        | 2473         | 2464<br>2470 | 2460 | 2429         | 2433         | 2437 * | 2457 * |
| 0          | 2350 *       | 2346         | 2342 | 2319<br>2320 | 2331<br>2332 | 2337 * | 2338 * |
| 10         |              | 2397 *       | 2392 | 2375         | 2380         | 2384   | 2388   |
| 20         |              | 2421 *       | 2417 | 2401         | 2405         | 2409   | 2413   |
|            | Trim = 3 deg |              |      |              |              |        |        |
| -10        | 2601         | 2597         | 2592 | 2587         | 2605         | 2609   | 2613 * |
| 0          | 2503         | 2499         | 2495 | 2479         | 2483         | 2487   | 2491   |
| 10         | 2537         | 2521         | 2517 | 2509         | 2513         | 2542   | 2547   |
| 20         | 2580         | 2576         | 2572 | 2568         | 2563<br>2564 | 2559   | 2554   |
|            | Trim = 6 deg |              |      |              |              |        |        |
| -10        | 3311         | 3307         | 3303 | 3286         | 3291         | 3295   | 3299   |
| 0          | 2660         | 2656         | 2652 | 2617<br>2618 | 2622         | 2644   | 2648   |
| 10         | 2690         | 2685         | 2681 | 2665         | 2669         | 2673   | 2677   |
| 20         | 2703         | 2698         | 2707 | 2711         | 2715         | 2719   | 2740   |

\* Indicates model was close to heave stop

TABLE 2.124

 ROTATING ARM RUN DIRECTORY  
 FOR TABLES nn.124

10 deg deadrise - L/R = 0.234

Cv = 4

| YAW, deg → | -15          | -10          | -5   | 0                                   | 5            | 10           | 15           |
|------------|--------------|--------------|------|-------------------------------------|--------------|--------------|--------------|
| ROLL, deg  | Trim = 0 deg |              |      |                                     |              |              |              |
| ↓          |              |              |      |                                     |              |              |              |
| -10        | 2474         | 2468<br>2469 | 2461 | 2430                                | 2434         |              |              |
| 0          | 2352         | 2347         | 2343 | 2322 2323<br>2324 2326<br>2327 2328 | 2333         | 2339 *       |              |
| 10         |              |              | 2394 | 2376<br>2377                        | 2381         | 2385         | 2389         |
| 20         |              |              | 2418 | 2402                                | 2406         | 2410         | 2414         |
|            | Trim = 3 deg |              |      |                                     |              |              |              |
| -10        | 2602         | 2598         | 2593 | 2588                                | 2606         | 2610         |              |
| 0          | 2504         | 2500         | 2496 | 2480                                | 2484         | 2488         | 2492         |
| 10         | 2538         | 2522         | 2518 | 2510                                | 2514         | 2543<br>2544 | 2548<br>2549 |
| 20         |              | 2577         | 2573 | 2569                                | 2565         | 2560         | 2555         |
|            | Trim = 6     |              |      |                                     |              |              |              |
| -10        | 3312         | 3308         | 3304 | 3287                                | 3292         | 3296         |              |
| 0          | 2661         | 2657         | 2653 | 2619                                | 2623         | 2645         | 2649         |
| 10         | 2691<br>2743 | 2686<br>2687 | 2682 | 2666                                | 2670         | 2674         | 2678         |
| 20         | 2704         | 2699<br>2700 | 2708 | 2712                                | 2716<br>2737 | 2736         | 2741         |

\* Indicates model was close to heave stop

TABLE 2.200.1

STRAIGHT COURSE RUN DIRECTORY  
FOR TABLES nn.200

20 deg deadrise - L/R = 0

CV = 0

| YAW, deg →     | -15 | -10 | -5 | 0            | 5    | 10   | 15   |
|----------------|-----|-----|----|--------------|------|------|------|
| Trim = -2 deg  |     |     |    |              |      |      |      |
| ROLL, deg<br>↓ |     |     |    |              |      |      |      |
| -10            |     |     |    | 1708         | 1712 | 1715 | 1717 |
| 0              |     |     |    | 1644         | 1649 | 1652 | 1655 |
| 10             |     |     |    | 1659         | 1663 | 1662 | 1667 |
| 20             |     |     |    | 1691         | 1695 | 1700 | 1702 |
| Trim = 0 deg   |     |     |    |              |      |      |      |
| -10            |     |     |    | 1626         | 1630 | 1634 | 1638 |
| 0              |     |     |    | 1558         | 1563 | 1567 | 1571 |
| 10             |     |     |    | 1578         | 1581 | 1587 | 1590 |
| 20             |     |     |    | 1606         | 1610 | 1614 | 1618 |
| Trim = 3 deg   |     |     |    |              |      |      |      |
| -10            |     |     |    | 1396         | 1392 | 1389 | 1383 |
| 0              |     |     |    | 1401<br>1404 | 1408 | 1412 | 1416 |
| 10             |     |     |    | 1435         | 1441 | 1444 | 1448 |
| 20             |     |     |    | 1456         | 1460 | 1464 | 1468 |

\* Indicates model was close to heave stop

TABLE 2.200.2

STRAIGHT COURSE RUN DIRECTORY  
FOR TABLES nn.200

20 deg deadrise - L/R = 0

Cv = 0

| YAW, deg →     | -15 | -10 | -5 | 0            | 5    | 10   | 15   |
|----------------|-----|-----|----|--------------|------|------|------|
| ROLL, deg<br>↓ |     |     |    | Trim = 6 deg |      |      |      |
| -10            |     |     |    | 1540         | 1544 | 1548 | 1552 |
| 0              |     |     |    | 1475         | 1479 | 1483 | 1487 |
| 10             |     |     |    | 1493         | 1497 | 1501 | 1505 |
| 20             |     |     |    | 1521         | 1526 | 1529 | 1533 |

\* Indicates model was close to heave stop

TABLE 2.201.1

STRAIGHT COURSE RUN DIRECTORY  
FOR TABLES nn.201

20 deg deadrise - L/R = 0

Cv = 1.5

| YAW, deg → | -15 | -10 | -5 | 0             | 5            | 10     | 15     |
|------------|-----|-----|----|---------------|--------------|--------|--------|
| ROLL, deg  |     |     |    |               |              |        |        |
|            |     |     |    | Trim = -2 deg |              |        |        |
| -10        |     |     |    | 1709          | 1713         | 1716 * | 1718 * |
| 0          |     |     |    | 1645          | 1648         | 1653   | 1656 * |
| 10         |     |     |    | 1660          | 1664<br>1681 | 1683   | 1686 * |
| 20         |     |     |    | 1692          | 1696         | 1699   | 1703 * |
|            |     |     |    | Trim = 0 deg  |              |        |        |
| -10        |     |     |    | 1627          | 1631         | 1635   | 1639 * |
| 0          |     |     |    | 1560          | 1564         | 1568   | 1572 * |
| 10         |     |     |    | 1577          | 1582         | 1586   | 1591   |
| 20         |     |     |    | 1607          | 1611         | 1615   | 1619   |
|            |     |     |    | Trim = 3 deg  |              |        |        |
| -10        |     |     |    | 1397          | 1393         | 1390   |        |
| 0          |     |     |    | 1405          | 1409         | 1413   | 1417   |
| 10         |     |     |    | 1436          | 1440         | 1445   | 1449   |
| 20         |     |     |    | 1457          | 1461         | 1465   | 1469   |

\* Indicates model was close to heave stop



TABLE 2.201.2

STRAIGHT COURSE RUN DIRECTORY  
FOR TABLES nn.201

20 deg deadrise - L/R = 0

Cv = 1.5

| YAW, deg → | -15 | -10 | -5 | 0            | 5    | 10   | 15   |
|------------|-----|-----|----|--------------|------|------|------|
| ROLL, deg  |     |     |    | Trim = 6 deg |      |      |      |
| ↓          |     |     |    |              |      |      |      |
| -10        |     |     |    | 1541         | 1545 | 1549 | 1553 |
| 0          |     |     |    | 1476         | 1480 | 1484 | 1488 |
| 10         |     |     |    | 1494         | 1498 | 1502 | 1506 |
| 20         |     |     |    | 1522         | 1525 | 1530 | 1534 |

\* Indicates model was close to heave stop

TABLE 2.203.1

STRAIGHT COURSE RUN DIRECTORY  
FOR TABLES nn.203

20 deg deadrise - L/R = 0

CV = 3

| YAW, deg → | -10           | -5 | 0    | 5      | 10     | 13   | 15     |
|------------|---------------|----|------|--------|--------|------|--------|
| ROLL, deg  | Trim = -2 deg |    |      |        |        |      |        |
| ↓          |               |    |      |        |        |      |        |
| -10        |               |    | 1710 | 1714 * |        |      |        |
| 0          |               |    | 1646 | 1650 * | 1654 * |      |        |
|            |               |    |      |        | 1721 * |      |        |
| 10         |               |    | 1661 | 1665   | 1684 * |      | 1688 * |
|            |               |    |      | 1680   |        |      |        |
| 20         |               |    | 1693 | 1697   | 1701 * |      |        |
|            | Trim = 0 deg  |    |      |        |        |      |        |
| -10        |               |    | 1628 | 1632   | 1636 * |      | 1640 * |
| 0          |               |    | 1561 | 1565   | 1569 * |      | 1573 * |
| 10         |               |    | 1579 | 1583   | 1588   |      | 1592 * |
| 20         |               |    | 1608 | 1612   | 1616   |      | 1620   |
|            | Trim = 3 deg  |    |      |        |        |      |        |
| -10        |               |    | 1398 | 1394   | 1391   | 1400 | 1388   |
| 0          |               |    | 1406 | 1410   | 1414   |      | 1418   |
| 10         |               |    | 1437 | 1442   | 1446   |      | 1450   |
| 20         |               |    | 1458 | 1462   | 1466   |      | 1470   |

\* Indicates model was close to heave stop

TABLE 2.203.2

STRAIGHT COURSE RUN DIRECTORY  
FOR TABLES nn.203

20 deg deadrise - L/R = 0

Cv = 3

| YAW, deg → | -10          | -5 | 0    | 5    | 10   | 13 | 15   |
|------------|--------------|----|------|------|------|----|------|
| ROLL, deg  | Trim = 6 deg |    |      |      |      |    |      |
| ↓          |              |    | 1542 | 1546 | 1550 |    | 1554 |
| -10        |              |    |      |      |      |    |      |
| 0          |              |    | 1477 | 1481 | 1485 |    | 1489 |
| 10         |              |    | 1495 | 1499 | 1503 |    | 1507 |
| 20         |              |    | 1523 | 1527 | 1531 |    | 1535 |

\* Indicates model was close to heave stop



TABLE 2.204.2

STRAIGHT COURSE RUN DIRECTORY  
FOR TABLES nn.204

20 deg deadrise - L/R = 0

Cv = 4

| YAW, deg → | -10          | -5 | 0    | 5    | 10   | 13 | 15   |
|------------|--------------|----|------|------|------|----|------|
| ROLL, deg  | Trim = 6 deg |    |      |      |      |    |      |
| ↓          |              |    |      |      |      |    |      |
| -10        |              |    | 1543 | 1547 | 1551 |    | 1555 |
| 0          |              |    | 1478 | 1482 | 1486 |    | 1490 |
| 10         |              |    | 1496 | 1500 | 1504 |    | 1508 |
| 20         |              |    | 1524 | 1528 | 1532 |    | 1536 |

\* Indicates model was close to heave stop

TABLE 2.210

 ROTATING ARM RUN DIRECTORY  
 FOR TABLES nn.210

20 deg deadrise - L/R = 0.117

Cv = 0

| YAW, deg → | -15          | -10 | -8  | -5         | 0          | 5          | 10             | 15  |
|------------|--------------|-----|-----|------------|------------|------------|----------------|-----|
| ROLL, deg  | Trim = 0 deg |     |     |            |            |            |                |     |
| §          |              |     |     |            |            |            |                |     |
| -10        |              | 585 | 568 | 582        | 569        | 574        | 577            |     |
| 0          | 468          | 464 |     | 459        | 439        | 446        | 450            | 454 |
| 10         |              | 534 |     | 530        | 471<br>517 | 475<br>522 | 525            |     |
| 20         |              | 560 |     | 553<br>555 | 538        | 543        | 548            |     |
|            | Trim = 3 deg |     |     |            |            |            |                |     |
| -10        | 250          | 245 |     | 241        | 237        | 233        | 229            | 225 |
| 0          | 109          | 104 |     | 100        | 96         | 90         | 79<br>81<br>87 | 83  |
| 10         | 113<br>154   | 159 |     | 163        | 167        | 171<br>185 | 187            | 191 |
| 20         | 219          | 215 |     | 211        |            | 203<br>207 | 199            | 195 |
|            | Trim = 6 deg |     |     |            |            |            |                |     |
| -10        | 419          | 415 |     | 411        | 393        | 397        | 401            | 405 |
| 0          | 295          | 291 |     | 287        | 267        | 273<br>277 | 282            | 283 |
| 10         | 299          | 304 |     | 308<br>321 | 324        | 328        | 322            | 336 |
| 20         | 364          | 360 |     | 356        | 340        | 344        | 348            | 352 |

\* Indicates model was close to heave stop

TABLE 2.211

 ROTATING ARM RUN DIRECTORY  
 FOR TABLES nn.211

20 deg deadrise - L/R = 0.117

Cv = 1.5

| YAW, deg → | -15          | -10 | -5         | 0          | 5          | 10  | 15    |
|------------|--------------|-----|------------|------------|------------|-----|-------|
| ROLL, deg  | Trim = 0 deg |     |            |            |            |     |       |
| ↓          |              |     |            |            |            |     |       |
| -10        |              | 586 | 581        | 570        | 573        | 578 |       |
| 0          | 489 *        | 485 | 460        | 443        | 447        | 451 | 455 * |
| 10         |              | 535 | 531        | 472<br>518 | 476<br>523 | 526 |       |
| 20         |              | 561 | 556        | 539        | 544        | 549 |       |
|            | Trim = 3 deg |     |            |            |            |     |       |
| -10        | 251          | 246 | 242        | 238        | 234        | 230 | 226   |
| 0          | 108<br>110   | 105 | 101        | 97         | 91<br>92   | 88  | 86    |
| 10         | 114          | 160 | 164        | 168        | 172        | 188 | 192   |
| 20         | 220          | 216 | 212        | 204        | 208        | 200 | 196   |
|            | Trim = 6 deg |     |            |            |            |     |       |
| -10        | 420          | 416 | 412<br>409 | 394        | 398        | 402 | 406   |
| 0          | 296          | 292 | 288        | 268        | 274        | 278 | 284   |
| 10         | 300          | 305 | 309        | 325        | 329        | 333 | 337   |
| 20         | 365          | 361 | 357        | 341        | 345        | 349 | 353   |

\* Indicates model was close to heave stop

TABLE 2.213

 ROTATING ARM RUN DIRECTORY  
 FOR TABLES nn.213

20 deg deadrise - L/R = 0.117

Cv = 3

| YAW, deg →  | -15               | -10   | -8  | -5           | 0   | 5   | 10         | 15    |
|-------------|-------------------|-------|-----|--------------|-----|-----|------------|-------|
| ROLL, deg ↓ |                   |       |     |              |     |     |            |       |
|             |                   |       |     | Trim = 0 deg |     |     |            |       |
| -10         |                   | 587   |     | 583          | 571 | 575 | 579 *      |       |
| 0           |                   | 466 * |     | 461          | 444 | 448 | 452 *      | 456*  |
| 10          |                   | 536   |     | 532          | 473 | 478 | 527<br>528 |       |
| 20          |                   | 562   | 567 | 557<br>558   | 540 | 546 | 550        |       |
|             |                   |       |     | Trim = 3 deg |     |     |            |       |
| -10         | 252               | 247   |     | 243          | 239 | 235 | 231        | 227 * |
| 0           | 111               | 106   |     | 102          | 98  | 94  | 89         | 85    |
| 10          | 115<br>155<br>156 | 161   |     | 165          | 169 | 173 | 189        | 193   |
| 20          | 221               | 217   |     | 213          | 209 | 205 | 201        | 197   |
|             |                   |       |     | Trim = 6 deg |     |     |            |       |
| -10         | 421               | 417   |     | 413          | 395 | 399 | 403        | 407   |
| 0           | 297               | 293   |     | 289          | 269 | 275 | 279<br>280 | 285   |
| 10          | 302               | 306   |     | 310          | 326 | 330 | 334        | 338   |
| 20          | 366               | 362   |     | 358          | 342 | 346 | 350        | 354   |

\* Indicates model was close to heave stop



TABLE 2.214

 ROTATING ARM RUN DIRECTORY  
 FOR TABLES nn.214

20 deg deadrise - L/R = 0.117

Cv = 4

| YAW, deg → |     | -15          | -14 | -13 | -10        | -8    | -5         | 0                 | 5          | 10                | 15             |  |
|------------|-----|--------------|-----|-----|------------|-------|------------|-------------------|------------|-------------------|----------------|--|
| ROLL, deg  |     | Trim = 0 deg |     |     |            |       |            |                   |            |                   |                |  |
| ↓          |     |              |     |     |            |       |            |                   |            |                   |                |  |
| -10        |     |              |     |     | 588        |       | 584        | 572               | 576 *      | 580 *             |                |  |
| 0          |     |              |     |     | 467 *      |       | 462        | 445               | 449        | 453 *             | 457 *          |  |
| 10         |     |              |     |     | 537 *      |       | 533        | 474<br>519<br>520 | 479<br>521 | 529               |                |  |
| 20         |     |              |     |     | 563        | 566 * | 554<br>559 | 541               | 547<br>564 | 551<br>552<br>565 |                |  |
|            |     | Trim = 3 deg |     |     |            |       |            |                   |            |                   |                |  |
| -10        | 253 |              |     |     | 248<br>249 |       | 244        | 240               | 236        | 232               | 228 *<br>254 * |  |
| 0          | 112 |              |     |     | 107        |       | 103        | 99                | 95         | 82                | 84             |  |
| 10         | 158 |              |     |     | 162        |       | 166        | 170               | 174<br>186 | 190               | 194            |  |
| 20         | 222 | 224          | 223 |     | 218        |       | 214        | 210               | 206        | 202               | 198            |  |
|            |     | Trim = 6 deg |     |     |            |       |            |                   |            |                   |                |  |
| -10        | 422 |              |     |     | 418        |       | 414        | 396               | 400        | 404               | 408            |  |
| 0          | 298 |              |     |     | 294        |       | 290        | 270<br>272        | 276        | 281               | 286            |  |
| 10         | 303 |              |     |     | 307        |       | 311<br>322 | 327               | 331        | 335               | 339            |  |
| 20         | 367 |              |     |     | 363        |       | 359        | 343               | 347        | 351               | 355            |  |

\* Indicates model was close to heave stop

TABLE 2.220

 ROTATING ARM RUN DIRECTORY  
 FOR TABLES nn.220

20 deg deadrise - L/R = 0.234

Cv = 0

| YAW, deg →   | -15          | -10          | -5           | 0    | 5    | 10   | 15   |
|--------------|--------------|--------------|--------------|------|------|------|------|
| Trim = 0 deg |              |              |              |      |      |      |      |
| ROLL, deg ↓  |              |              |              |      |      |      |      |
| -10          | 2934         | 2930         | 2926         | 2912 | 2916 | 2920 | 2924 |
| 0            | 2830<br>2831 | 2825         | 2821         | 2797 | 2802 | 2816 |      |
| 10           | 2859         | 2855         | 2851         | 2835 | 2839 | 2843 | 2847 |
| 20           | 2895         | 2889<br>2891 | 2890<br>2885 | 2864 | 2868 | 2872 | 2876 |
| Trim = 3 deg |              |              |              |      |      |      |      |
| -10          | 3072         | 3068         | 3064         | 3047 | 3051 | 3056 | 3061 |
| 0            | 2967         | 2962         | 2958         | 2942 | 2946 | 2950 | 2954 |
| 10           | 2984         | 2980         | 2976         | 2972 | 2969 | 2993 | 2997 |
| 20           | 3042         | 3037         | 3033         | 3003 | 3007 | 3024 | 3029 |
| Trim = 6 deg |              |              |              |      |      |      |      |
| -10          | 3198         | 3194         | 3190         | 3186 | 3202 | 3206 | 3210 |
| 0            | 3106         | 3101         | 3097         | 3079 |      |      | 3093 |
| 10           | 3150         | 3146         | 3142         | 3125 | 3129 | 3134 | 3138 |
| 20           | 3168         | 3164         | 3160         | 3156 | 3172 | 3176 | 3180 |

\* Indicates model was close to heave stop

TABLE 2.221

 ROTATING ARM RUN DIRECTION  
 FOR TABLES nn.221

20 deg deadrise - L/R = 0.234

Cv = 1.5

| YAW, deg →   | -15          | -10  | -5   | 0    | 5    | 10   | 15           |
|--------------|--------------|------|------|------|------|------|--------------|
| Trim = 0 deg |              |      |      |      |      |      |              |
| ROLL, deg ↓  |              |      |      |      |      |      |              |
| -10          | 2935<br>2936 | 2931 | 2927 | 2913 | 2917 | 2921 | 2925 *       |
| 0            | 2832 *       | 2826 | 2822 | 2799 | 2803 | 2817 |              |
| 10           | 2860 *       | 2856 | 2852 | 2836 | 2840 | 2844 | 2848<br>2849 |
| 20           | 2894 *       | 2890 | 2886 | 2865 | 2869 | 2873 | 2877         |
| Trim = 3 deg |              |      |      |      |      |      |              |
| -10          | 3073         | 3069 | 3065 | 3048 | 3052 | 3057 | 3060         |
| 0            | 2968         | 2963 | 2959 | 2943 | 2947 | 2951 | 2955         |
| 10           | 2985<br>2986 | 2981 | 2977 | 2973 | 2990 | 2994 | 2998         |
| 20           | 3043         | 3038 | 3034 | 3004 | 3008 | 3025 | 3030         |
| Trim = 6 deg |              |      |      |      |      |      |              |
| -10          | 3199         | 3195 | 3191 | 3187 | 3203 | 3207 | 3211<br>3212 |
| 0            | 3107         | 3102 | 3098 | 3082 | 3085 | 3090 | 3094         |
| 10           | 3151         | 3147 | 3143 | 3126 | 3130 | 3135 | 3139         |
| 20           | 3169         | 3165 | 3161 | 3157 | 3173 | 3177 | 3181         |

\* Indicates model was close to heave stop

TABLE 2.223

 ROTATING ARM RUN DIRECTORY  
 FOR TABLES nn.223

20 deg deadrise - L/R = 0.234

Cv = 3

| YAW, deg → | -15          | -10          | -5   | 0    | 5            | 10     | 15           |
|------------|--------------|--------------|------|------|--------------|--------|--------------|
| ROLL, deg  | Trim = 0 deg |              |      |      |              |        |              |
| ↓          |              |              |      |      |              |        |              |
| -10        | 2937 *       | 2932         | 2928 | 2914 | 2918         | 2922 * |              |
|            | 2939 *       |              |      |      |              |        |              |
| 0          | 2833 *       | 2828         | 2823 | 2800 | 2804         | 2818 * |              |
| 10         |              | 2857         | 2853 | 2837 | 2841         | 2845   | 2850 *       |
| 20         | 2896 *       | 2892         | 2887 | 2866 | 2870         | 2874   | 2878<br>2883 |
|            | Trim = 3 deg |              |      |      |              |        |              |
| -10        | 3074         | 3070         | 3066 | 3049 | 3053<br>3054 | 3058   | 3062 *       |
| 0          | 2969         | 2964         | 2960 | 2944 | 2948         | 2953   | 2956         |
| 10         | 2987         | 2982         | 2978 | 2974 | 2991         | 2995   | 2999         |
| 20         | 3044         | 3039         | 3035 | 3005 | 3009         | 3026   | 3031         |
|            | Trim = 6 deg |              |      |      |              |        |              |
| -10        | 3200         | 3196         | 3192 | 3188 | 3204         | 3208   | 3213         |
| 0          | 3108         | 3103<br>3104 | 3099 | 3081 | 3086         | 3091   | 3095         |
| 10         | 3152         | 3148         | 3144 | 3127 | 3131         | 3136   | 3140         |
| 20         | 3170         | 3166         | 3162 | 3158 | 3174         | 3178   | 3182         |

\* Indicates model was close to heave stop

TABLE 2.224

 ROTATING ARM RUN DIRECTORY  
 FOR TABLES nn.224

20 deg deadrise - L/R = 0.234

Cv = 4

| YAW, deg →     | -15          | -10          | -5   | 0    | 5    | 10           | 15           |
|----------------|--------------|--------------|------|------|------|--------------|--------------|
| ROLL, deg<br>↓ | Trim = 0 deg |              |      |      |      |              |              |
| -10            |              | 2933         | 2929 | 2915 | 2919 |              |              |
| 0              |              | 2829         | 2824 | 2801 | 2805 | 2820 *       |              |
| 10             |              | 2858         | 2854 | 2838 | 2842 | 2846         |              |
| 20             |              | 2893         | 2888 | 2867 | 2871 | 2875         | 2879<br>2884 |
|                | Trim = 3 deg |              |      |      |      |              |              |
| -10            | 3075         | 3071         | 3067 | 3050 | 3055 | 3059         |              |
| 0              | 2970         | 2965         | 2961 | 2945 | 2949 | 2952         | 2957         |
| 10             | 2988         | 2983         | 2979 | 2975 | 2992 | 2996         | 3000         |
| 20             | 3045         | 3040<br>3041 | 3036 | 3006 | 3010 | 3027<br>3028 | 3032         |
|                | Trim = 6 deg |              |      |      |      |              |              |
| -10            | 3201         | 3197         | 3193 | 3189 | 3205 | 3209         |              |
| 0              | 3109         | 3105         | 3100 | 3083 | 3087 | 3092         | 3096         |
| 10             | 3153         | 3149         | 3145 | 3128 | 3132 | 3137         | 3141         |
| 20             | 3171         | 3167         | 3163 | 3159 | 3175 | 3179         | 3183         |

\* Indicates model was close to heave stop

TABLE 3

DIRECTORY OF STRAIGHT COURSE RUDDER RUNS  
FOR TABLES 9 TO 12

10 deg deadrise - L/R = 0

Roll = Yaw = 0 deg

Trim = 3 deg

RUDDER, deg →    -20        -15        -10        -5        0        15        20

Cv = 1.5

2243        2224        2237        2240        2218        2221

Cv = 3

2244        2225        2238        2241        2219        2222

Cv = 4

2245        2226        2239        2242        2220        2223  
2246        2236

Cv = 4, C<sub>A</sub> = 0.8183

2248        2249

20 deg deadrise - L/R = 0

Roll = Yaw = 0 deg

Trim = 3 deg

RUDDER, deg →    -20        -15        -10        -5        0        15        20

Cv = 1.5

2177        2197        2200        2203        2173        2182

Cv = 3

2178        2198        2201        2204        2174        2183

Cv = 4

2179        2199        2202        2206        2175        2207        2184  
2209        2208        2185  
2195

\* Indicates model was close to heave stop

TABLE 4.101.1 - WETTED AREA DATA

10 deg Deadrise, L/R = 0.000, Cv = 1.5

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Wetted Lengths   |                            |                         |                            |                         | Wetted Areas           |                     |                     | SKWL<br>in |
|--------|-------------|-------------|------------|------------------|----------------------------|-------------------------|----------------------------|-------------------------|------------------------|---------------------|---------------------|------------|
|        |             |             |            | Keel<br>Lk<br>in | Stbd<br>Chine<br>Lcs<br>in | Stbd<br>Beam<br>Bs<br>: | Port<br>Chine<br>Lcp<br>in | Port<br>Beam<br>Bp<br>: | Total<br>Atot<br>sq.ft | Stbd<br>As<br>sq.ft | Port<br>Ap<br>sq.ft |            |
| 2113   | -2          | -10         | 0          | 47.0             | 30.0                       | 0.1                     | 47.0                       | 0.7                     | 1.06                   | 0.12                | 0.94                | 46.12      |
| 2117   | -2          | -10         | 5          | 47.0             | 25.0                       | 0.9                     | 47.0                       | 1.0                     | 2.37                   | 1.03                | 1.34                | 46.33      |
| 2121   | -2          | -10         | 10         | 47.0             | 47.0                       | 1.0                     | 47.0                       | 1.0                     | 2.68                   | 1.34                | 1.34                | 46.77      |
| 2123 * | -2          | -10         | 15         | 47.0             | 47.0                       | 1.0                     | 47.0                       | 1.0                     | 2.68                   | 1.34                | 1.34                | 46.96      |
| 2060   | -2          | 0           | 0          | 47.0             | 47.0                       | 1.0                     | 47.0                       | 1.0                     | 2.68                   | 1.34                | 1.34                | 46.18      |
| 2063   | -2          | 0           | 0          | 47.0             | 47.0                       | 1.0                     | 47.0                       | 1.0                     | 2.68                   | 1.34                | 1.34                | 46.19      |
| 2066   | -2          | 0           | 5          | 47.0             | 47.0                       | 1.0                     | 47.0                       | 1.0                     | 2.68                   | 1.34                | 1.34                | 46.34      |
| 2068   | -2          | 0           | 10         | 47.0             | 47.0                       | 1.0                     | 47.0                       | 1.0                     | 2.68                   | 1.34                | 1.34                | 46.56      |
| 2071 * | -2          | 0           | 15         | 47.0             | 47.0                       | 1.0                     | 47.0                       | 1.0                     | 2.68                   | 1.34                | 1.34                | 46.97      |
| 2075   | -2          | 10          | 0          | 47.0             | 47.0                       | 1.0                     | 47.0                       | 1.0                     | 2.68                   | 1.34                | 1.34                | 46.09      |
| 2079   | -2          | 10          | 5          | 47.0             | 47.0                       | 1.0                     | 47.0                       | 1.0                     | 2.68                   | 1.34                | 1.34                | 46.12      |
| 2082   | -2          | 10          | 10         | 47.0             | 47.0                       | 1.0                     | 47.0                       | 1.0                     | 2.68                   | 1.34                | 1.34                | 46.31      |
| 2084   | -2          | 10          | 15         | 47.0             | 47.0                       | 1.0                     | 47.0                       | 0.9                     | 2.55                   | 1.34                | 1.21                | 46.66      |
| 2091   | -2          | 20          | 0          | 47.0             | 47.0                       | 1.0                     | 47.0                       | 0.5                     | 2.01                   | 1.34                | 0.67                | 45.90      |
| 2095   | -2          | 20          | 5          | 47.0             | 47.0                       | 1.0                     | 40.0                       | 0.6                     | 2.13                   | 1.34                | 0.79                | 45.93      |
| 2099   | -2          | 20          | 10         | 47.0             | 47.0                       | 1.0                     | 22.0                       | 1.0                     | 2.44                   | 1.34                | 1.09                | 46.06      |
| 2102   | -2          | 20          | 15         | 47.0             | 47.0                       | 1.0                     | 35.0                       | 0.5                     | 1.98                   | 1.34                | 0.63                | 46.27      |
| 1830   | 0           | -10         | 0          | 44.9             | 39.5                       | 1.0                     | 44.2                       | 1.0                     | 2.60                   | 1.28                | 1.32                | 44.77      |
| 1834   | 0           | -10         | 5          | 45.0             | 40.0                       | 1.0                     | 44.5                       | 1.0                     | 2.61                   | 1.29                | 1.32                | 45.25      |
| 1840   | 0           | -10         | 10         | 45.5             | 42.5                       | 1.0                     | 45.5                       | 1.0                     | 2.65                   | 1.31                | 1.33                | 45.62      |
| 1844   | 0           | -10         | 15         | 46.0             | 46.0                       | 1.0                     | 46.0                       | 1.0                     | 2.67                   | 1.34                | 1.34                | 44.87      |
| 1761   | 0           | 0           | 0          | 44.9             | 42.4                       | 1.0                     | 43.0                       | 1.0                     | 2.78                   | 1.39                | 1.39                | 44.69      |
| 1765   | 0           | 0           | 5          | 45.0             | 42.5                       | 1.0                     | 43.0                       | 1.0                     | 2.62                   | 1.31                | 1.31                | 44.84      |
| 1769   | 0           | 0           | 10         | 45.3             | 43.5                       | 1.0                     | 44.0                       | 1.0                     | 2.64                   | 1.32                | 1.32                | 45.40      |
| 1774   | 0           | 0           | 15         | 47.0             | 47.0                       | 1.0                     | 47.0                       | 1.0                     | 2.68                   | 1.34                | 1.34                | 44.81      |
| 1780   | 0           | 10          | 0          | 44.8             | 44.0                       | 1.0                     | 41.0                       | 1.0                     | 2.61                   | 1.32                | 1.30                | 44.66      |
| 1784   | 0           | 10          | 5          | 45.0             | 44.0                       | 1.0                     | 41.2                       | 1.0                     | 2.62                   | 1.32                | 1.30                | 44.66      |
| 1788   | 0           | 10          | 10         | 44.9             | 44.0                       | 1.0                     | 41.7                       | 1.0                     | 2.62                   | 1.32                | 1.30                | 44.81      |
| 1789   | 0           | 10          | 10         | 44.9             | 43.8                       | 1.0                     | 41.2                       | 1.0                     | 2.62                   | 1.32                | 1.30                | 44.81      |
| 1793   | 0           | 10          | 15         | 45.2             | 44.7                       | 1.0                     | 43.0                       | 1.0                     | 2.64                   | 1.33                | 1.32                | 44.55      |
| 1810   | 0           | 21          | 0          | 44.5             | 44.5                       | 1.0                     | 40.0                       | 0.7                     | 2.22                   | 1.32                | 0.90                | 43.96      |
| 1815   | 0           | 21          | 5          | 44.0             | 44.0                       | 1.0                     | 44.0                       | 0.5                     | 1.97                   | 1.31                | 0.66                | 43.96      |
| 1820   | 0           | 21          | 10         | 44.4             | 44.2                       | 1.0                     | 30.0                       | 1.0                     | 2.49                   | 1.32                | 1.17                | 44.05      |
| 1824   | 0           | 21          | 15         | 44.8             | 42.0                       | 1.0                     | 35.0                       | 0.7                     | 2.17                   | 1.30                | 0.87                | 44.25      |
| 1919   | 3           | -11         | 0          | 39.2             | 25.5                       | 1.0                     | 37.7                       | 1.0                     | 2.22                   | 1.02                | 1.19                | 37.82      |
| 1923   | 3           | -11         | 5          | 39.8             | 25.0                       | 1.0                     | 38.0                       | 1.0                     | 2.23                   | 1.03                | 1.20                | 38.24      |
| 1927   | 3           | -11         | 10         | 40.8             | 27.0                       | 1.0                     | 39.0                       | 1.0                     | 2.30                   | 1.07                | 1.23                | 39.12      |
| 1931   | 3           | -11         | 15         | 42.0             | 33.5                       | 1.0                     | 42.0                       | 1.0                     | 2.45                   | 1.18                | 1.27                | 40.69      |
| 1851   | 3           | 0           | 0          | 39.0             | 33.0                       | 1.0                     | 33.5                       | 1.0                     | 2.26                   | 1.13                | 1.13                | 38.69      |
| 1855   | 3           | 0           | 0          | 39.0             | 38.0                       | 1.0                     | 38.4                       | 1.0                     | 2.39                   | 1.19                | 1.20                | 38.06      |
| 1857   | 3           | 0           | 5          | 39.2             | 38.3                       | 1.0                     | 38.8                       | 1.0                     | 2.40                   | 1.20                | 1.21                | 38.24      |
| 1861   | 3           | 0           | 10         | 40.0             | 34.3                       | 1.0                     | 34.9                       | 1.0                     | 2.33                   | 1.16                | 1.17                | 38.79      |
| 1865   | 3           | 0           | 15         | 40.8             | 36.0                       | 1.0                     | 36.3                       | 1.0                     | 2.39                   | 1.19                | 1.20                | 39.80      |

\* Indicates model was close to heave stop

TABLE 4.101.2 - WETTED AREA DATA

10 deg Deadrise, L/R = 0.000, Cv = 1.5

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Wetted Lengths   |                            |                         |                            |                         | Wetted Areas           |                     |                     | SKWL<br>in |
|------|-------------|-------------|------------|------------------|----------------------------|-------------------------|----------------------------|-------------------------|------------------------|---------------------|---------------------|------------|
|      |             |             |            | Keel<br>Lk<br>in | Stbd<br>Chine<br>Lcs<br>in | Stbd<br>Beam<br>Bs<br>: | Port<br>Chine<br>Lcp<br>in | Port<br>Beam<br>Bp<br>: | Total<br>Atot<br>sq.ft | Stbd<br>As<br>sq.ft | Port<br>Ap<br>sq.ft |            |
| 1881 | 3           | 10          | 0          | 39.0             | 36.8                       | 1.0                     | 27.5                       | 1.0                     | 2.23                   | 1.18                | 1.05                | 37.83      |
| 1885 | 3           | 10          | 5          | 38.8             | 36.6                       | 1.0                     | 27.0                       | 1.0                     | 2.21                   | 1.17                | 1.04                | 37.58      |
| 1889 | 3           | 10          | 10         | 38.9             | 35.8                       | 1.0                     | 28.0                       | 1.0                     | 2.22                   | 1.16                | 1.06                | 37.71      |
| 1895 | 3           | 10          | 15         | 39.3             | 37.3                       | 1.0                     | 29.5                       | 1.0                     | 2.27                   | 1.19                | 1.08                | 38.07      |
| 1901 | 3           | 21          | 0          | 34.0             | 34.0                       | 1.0                     | 0.0                        | 0.8                     | 1.50                   | 1.07                | 0.43                | 36.59      |
| 1905 | 3           | 21          | 5          | 33.6             | 34.0                       | 1.0                     | 24.0                       | 1.0                     | 1.98                   | 1.06                | 0.91                | 36.36      |
| 1909 | 3           | 21          | 10         | 39.0             | 39.0                       | 1.0                     | 22.0                       | 1.0                     | 2.17                   | 1.21                | 0.97                | 36.19      |
| 1913 | 3           | 21          | 15         | 38.2             | 39.0                       | 1.0                     | 22.5                       | 1.0                     | 2.16                   | 1.20                | 0.96                | 35.94      |
| 2023 | 6           | -10         | 0          | 29.8             | 21.0                       | 1.0                     | 29.0                       | 1.0                     | 1.74                   | 0.81                | 0.93                | 28.00      |
| 2027 | 6           | -10         | 5          | 30.0             | 21.0                       | 1.0                     | 29.5                       | 1.0                     | 1.75                   | 0.81                | 0.94                | 28.67      |
| 2031 | 6           | -10         | 10         | 31.2             | 22.0                       | 1.0                     | 31.0                       | 1.0                     | 1.83                   | 0.84                | 0.98                | 29.82      |
| 2035 | 6           | -10         | 15         | 33.0             | 22.7                       | 1.0                     | 32.0                       | 1.0                     | 1.91                   | 0.88                | 1.02                | 31.74      |
| 1964 | 6           | 0           | 0          | 28.5             | 24.0                       | 1.0                     | 24.2                       | 1.0                     | 1.67                   | 0.83                | 0.84                | 27.17      |
| 1969 | 6           | 0           | 5          | 28.7             | 24.2                       | 1.0                     | 24.5                       | 1.0                     | 1.68                   | 0.84                | 0.84                | 27.17      |
| 1973 | 6           | 0           | 10         | 29.9             | 25.3                       | 1.0                     | 25.3                       | 1.0                     | 1.75                   | 0.87                | 0.87                | 28.03      |
| 1977 | 6           | 0           | 15         | 30.8             | 26.2                       | 1.0                     | 26.5                       | 1.0                     | 1.81                   | 0.90                | 0.91                | 28.70      |
| 1983 | 6           | 10          | 0          | 29.0             | 28.2                       | 1.0                     | 20.0                       | 1.0                     | 1.68                   | 0.91                | 0.78                | 26.00      |
| 1987 | 6           | 10          | 5          | 29.0             | 28.2                       | 1.0                     | 20.5                       | 1.0                     | 1.69                   | 0.91                | 0.79                | 25.90      |
| 1991 | 6           | 10          | 10         | 28.9             | 28.3                       | 1.0                     | 20.6                       | 1.0                     | 1.69                   | 0.91                | 0.79                | 25.90      |
| 1996 | 6           | 10          | 15         | 28.9             | 28.2                       | 1.0                     | 21.0                       | 1.0                     | 1.70                   | 0.90                | 0.79                | 26.67      |
| 2003 | 6           | 20          | 0          | 29.0             | 31.8                       | 1.0                     | 18.0                       | 1.0                     | 1.71                   | 0.96                | 0.75                | 25.65      |
| 2008 | 6           | 20          | 5          | 28.8             | 31.4                       | 1.0                     | 18.5                       | 1.0                     | 1.70                   | 0.95                | 0.75                | 24.98      |
| 2012 | 6           | 20          | 10         | 29.0             | 31.5                       | 1.0                     | 17.0                       | 1.0                     | 1.69                   | 0.96                | 0.73                | 24.88      |
| 2016 | 6           | 20          | 15         | 28.0             | 31.0                       | 1.0                     | 17.0                       | 1.0                     | 1.65                   | 0.93                | 0.71                | 24.12      |

\* Indicates model was close to heave stop



TABLE 4.103.1 - WETTED AREA DATA

10 deg Deadrise, L/R = 0.000, Cv = 3

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Wetted Lengths   |                            |                         |                            |                         | Wetted Areas           |                     |                     | SKWL<br>in |
|--------|-------------|-------------|------------|------------------|----------------------------|-------------------------|----------------------------|-------------------------|------------------------|---------------------|---------------------|------------|
|        |             |             |            | Keel<br>Lk<br>in | Stbd<br>Chine<br>Lcs<br>in | Stbd<br>Beam<br>Bs<br>: | Port<br>Chine<br>Lcp<br>in | Port<br>Beam<br>Bp<br>: | Total<br>Atot<br>sq.ft | Stbd<br>As<br>sq.ft | Port<br>Ap<br>sq.ft |            |
| 2114   | -2          | -10         | 0          | 47.0             | 47.0                       | 1.0                     | 47.0                       | 1.0                     | 2.68                   | 1.34                | 1.34                | 46.44      |
| 2118   | -2          | -10         | 5          | 47.0             | 47.0                       | 1.0                     | 47.0                       | 1.0                     | 2.68                   | 1.34                | 1.34                | 46.86      |
| 2064   | -2          | 0           | 0          | 47.0             | 47.0                       | 1.0                     | 47.0                       | 1.0                     | 2.68                   | 1.34                | 1.34                | 46.40      |
| 2067   | -2          | 0           | 5          | 47.0             | 47.0                       | 1.0                     | 47.0                       | 1.0                     | 2.68                   | 1.34                | 1.34                | 46.88      |
| 2076   | -2          | 10          | 0          | 47.0             | 47.0                       | 1.0                     | 47.0                       | 1.0                     | 2.68                   | 1.34                | 1.34                | 46.31      |
| 2080   | -2          | 10          | 5          | 47.0             | 47.0                       | 1.0                     | 47.0                       | 1.0                     | 2.68                   | 1.34                | 1.34                | 46.58      |
| 2092   | -2          | 20          | 0          | 47.0             | 47.0                       | 1.0                     | 40.0                       | 0.7                     | 2.26                   | 1.34                | 0.92                | 46.12      |
| 2096   | -2          | 20          | 5          | 47.0             | 47.0                       | 1.0                     | 35.0                       | 0.8                     | 2.36                   | 1.34                | 1.01                | 45.92      |
| 2100   | -2          | 20          | 10         | 47.0             | 47.0                       | 1.0                     | 47.0                       | 1.0                     | 2.68                   | 1.34                | 1.34                | 46.13      |
| 2103   | -2          | 20          | 15         | 45.2             | 45.0                       | 1.0                     | 36.0                       | 1.0                     | 2.58                   | 1.33                | 1.25                | 45.24      |
| 1831   | 0           | -10         | 0          | 44.3             | 38.0                       | 1.0                     | 43.0                       | 1.0                     | 2.57                   | 1.26                | 1.31                | 44.01      |
| 1835   | 0           | -10         | 5          | 45.5             | 41.5                       | 1.0                     | 44.7                       | 1.0                     | 2.64                   | 1.31                | 1.33                | 45.64      |
| 1841   | 0           | -10         | 10         | 46.0             | 42.5                       | 1.0                     | 46.0                       | 1.0                     | 2.66                   | 1.32                | 1.34                | 45.64      |
| 1845   | 0           | -10         | 15         |                  |                            |                         |                            |                         |                        |                     |                     | 44.69      |
| 1762   | 0           | 0           | 0          | 44.3             | 41.0                       | 1.0                     | 42.0                       | 1.0                     | 2.59                   | 1.29                | 1.30                | 44.09      |
| 1766   | 0           | 0           | 5          | 45.0             | 42.0                       | 1.0                     | 42.8                       | 1.0                     | 2.62                   | 1.31                | 1.31                | 44.62      |
| 1770 * | 0           | 0           | 10         | 46.5             | 46.5                       | 1.0                     | 46.5                       | 1.0                     | 2.68                   | 1.34                | 1.34                | 45.81      |
| 1775 * | 0           | 0           | 15         | 47.0             | 47.0                       | 1.0                     | 47.0                       | 1.0                     | 2.68                   | 1.34                | 1.34                | 44.62      |
| 1781   | 0           | 10          | 0          | 44.2             | 42.8                       | 1.0                     | 43.5                       | 1.0                     | 2.61                   | 1.30                | 1.31                | 44.01      |
| 1785   | 0           | 10          | 5          | 44.3             | 43.0                       | 1.0                     | 39.0                       | 1.0                     | 2.58                   | 1.31                | 1.27                | 44.20      |
| 1790   | 0           | 10          | 10         | 43.8             | 42.1                       | 1.0                     | 37.1                       | 1.0                     | 2.54                   | 1.29                | 1.25                | 43.64      |
| 1794   | 0           | 10          | 15         | 42.5             | 40.8                       | 1.0                     | 33.0                       | 1.0                     | 2.45                   | 1.27                | 1.18                | 42.74      |
| 1811   | 0           | 21          | 0          | 43.4             | 43.8                       | 1.0                     | 40.0                       | 0.7                     | 2.19                   | 1.31                | 0.89                | 43.04      |
| 1816   | 0           | 21          | 5          | 43.8             | 43.3                       | 1.0                     | 28.0                       | 1.0                     | 2.44                   | 1.30                | 1.13                | 42.99      |
| 1821   | 0           | 21          | 10         | 41.7             | 41.5                       | 1.0                     | 13.0                       | 1.0                     | 2.13                   | 1.27                | 0.87                | 41.11      |
| 1825   | 0           | 21          | 15         | 36.0             | 38.0                       | 1.0                     | 0.0                        | 0.6                     | 1.50                   | 1.15                | 0.34                | 35.79      |
| 1920   | 3           | -11         | 0          | 34.7             | 18.0                       | 1.0                     | 33.2                       | 1.0                     | 1.90                   | 0.84                | 1.07                | 33.77      |
| 1924   | 3           | -11         | 5          | 36.7             | 19.5                       | 1.0                     | 35.0                       | 1.0                     | 2.01                   | 0.89                | 1.12                | 35.54      |
| 1928   | 3           | -11         | 10         | 40.0             | 28.0                       | 1.0                     | 38.3                       | 1.0                     | 2.28                   | 1.07                | 1.21                | 38.69      |
| 1933   | 3           | -11         | 15         | 44.0             | 39.0                       | 1.0                     | 43.5                       | 1.0                     | 2.58                   | 1.27                | 1.31                | 43.08      |
| 1852   | 3           | 0           | 0          | 34.4             | 26.0                       | 1.0                     | 26.0                       | 1.0                     | 1.91                   | 0.96                | 0.96                | 35.02      |
| 1858   | 3           | 0           | 5          | 34.5             | 26.0                       | 1.0                     | 26.5                       | 1.0                     | 1.92                   | 0.96                | 0.97                | 33.99      |
| 1862   | 3           | 0           | 10         | 34.8             | 26.8                       | 1.0                     | 27.1                       | 1.0                     | 1.95                   | 0.97                | 0.98                | 34.48      |
| 1866   | 3           | 0           | 15         | 36.8             | 29.4                       | 1.0                     | 30.0                       | 1.0                     | 2.10                   | 1.04                | 1.05                | 36.48      |

\* Indicates model was close to heave stop

TABLE 4.103.2 - WETTED AREA DATA

10 deg Deadrise, L/R = 0.000, Cv = 3

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Wetted Lengths   |                            |                         |                            |                         | Wetted Areas           |                     |                     | SKWL<br>in |
|------|-------------|-------------|------------|------------------|----------------------------|-------------------------|----------------------------|-------------------------|------------------------|---------------------|---------------------|------------|
|      |             |             |            | Keel<br>Lk<br>in | Stbd<br>Chine<br>Lcs<br>in | Stbd<br>Beam<br>Bs<br>: | Port<br>Chine<br>Lcp<br>in | Port<br>Beam<br>Bp<br>: | Total<br>Atot<br>sq.ft | Stbd<br>As<br>sq.ft | Port<br>Ap<br>sq.ft |            |
| 1882 | 3           | 10          | 0          | 33.9             | 31.7                       | 1.0                     | 19.0                       | 1.0                     | 1.87                   | 1.03                | 0.84                | 33.35      |
| 1886 | 3           | 10          | 5          | 30.6             | 29.6                       | 1.0                     | 17.0                       | 1.0                     | 1.71                   | 0.95                | 0.76                | 28.99      |
| 1890 | 3           | 10          | 10         | 25.3             | 24.8                       | 1.0                     | 12.0                       | 1.0                     | 1.39                   | 0.79                | 0.59                | 22.68      |
| 1891 | 3           | 10          | 10         | 25.3             | 24.9                       | 1.0                     | 12.0                       | 1.0                     | 1.39                   | 0.80                | 0.59                | 22.68      |
| 1896 | 3           | 10          | 15         | 20.2             | 19.3                       | 1.0                     | 7.0                        | 1.0                     | 1.06                   | 0.63                | 0.43                | 16.76      |
| 1902 | 3           | 21          | 0          | 34.5             | 36.2                       | 1.0                     | 12.5                       | 1.0                     | 1.85                   | 1.11                | 0.75                | 30.28      |
| 1906 | 3           | 21          | 5          | 34.0             | 30.1                       | 1.0                     | 12.0                       | 1.0                     | 1.74                   | 1.01                | 0.73                | 24.55      |
| 1910 | 3           | 21          | 10         | 21.0             | 29.0                       | 1.0                     | 3.0                        | 1.0                     | 1.18                   | 0.79                | 0.38                | 13.66      |
| 1914 | 3           | 21          | 15         | 15.0             | 24.0                       | 1.0                     | 0.0                        | 0.7                     | 0.79                   | 0.62                | 0.17                | 5.44       |
| 2024 | 6           | -10         | 0          | 17.4             | 9.0                        | 1.0                     | 17.0                       | 1.0                     | 0.96                   | 0.42                | 0.55                | 15.86      |
| 2028 | 6           | -10         | 5          | 20.2             | 16.8                       | 1.0                     | 20.0                       | 1.0                     | 1.23                   | 0.59                | 0.64                | 18.82      |
| 2032 | 6           | -10         | 10         | 22.4             | 14.0                       | 1.0                     | 22.5                       | 1.0                     | 1.29                   | 0.58                | 0.71                | 21.50      |
| 2036 | 6           | -10         | 15         | 27.0             | 17.5                       | 1.0                     | 27.0                       | 1.0                     | 1.56                   | 0.71                | 0.86                | 25.80      |
| 1965 | 6           | 0           | 0          | 14.8             | 10.0                       | 1.0                     | 10.0                       | 1.0                     | 0.79                   | 0.39                | 0.39                | 13.30      |
| 1970 | 6           | 0           | 5          | 15.3             | 10.6                       | 1.0                     | 10.6                       | 1.0                     | 0.82                   | 0.41                | 0.41                | 13.30      |
| 1974 | 6           | 0           | 10         | 15.3             | 10.5                       | 1.0                     | 10.7                       | 1.0                     | 0.82                   | 0.41                | 0.41                | 13.39      |
| 1978 | 6           | 0           | 15         | 16.2             | 6.5                        | 1.0                     | 6.5                        | 1.0                     | 0.72                   | 0.36                | 0.36                | 13.97      |
| 1984 | 6           | 10          | 0          | 16.7             | 16.0                       | 1.0                     | 8.5                        | 1.0                     | 0.92                   | 0.52                | 0.40                | 13.85      |
| 1988 | 6           | 10          | 5          | 14.0             | 13.4                       | 1.0                     | 6.0                        | 1.0                     | 0.75                   | 0.43                | 0.32                | 10.31      |
| 1992 | 6           | 10          | 10         | 11.0             | 11.0                       | 1.0                     | 3.0                        | 1.0                     | 0.57                   | 0.35                | 0.22                | 7.91       |
| 1997 | 6           | 10          | 15         | 10.0             | 10.0                       | 1.0                     | 2.0                        | 1.0                     | 0.51                   | 0.32                | 0.19                | 7.44       |
| 2004 | 6           | 20          | 0          | 19.0             | 23.4                       | 1.0                     | 6.0                        | 1.0                     | 1.07                   | 0.67                | 0.40                | 15.70      |
| 2009 | 6           | 20          | 5          | 15.6             | 19.7                       | 1.0                     | 3.5                        | 1.0                     | 0.88                   | 0.56                | 0.30                | 11.97      |
| 2013 | 6           | 20          | 10         | 11.0             | 15.2                       | 1.0                     | 0.0                        | 0.8                     | 0.56                   | 0.42                | 0.14                | 6.61       |
| 2017 | 6           | 20          | 15         | 9.0              | 12.5                       | 1.0                     | 0.0                        | 0.6                     | 0.43                   | 0.34                | 0.09                | 4.22       |

\* Indicates model was close to heave stop

TABLE 4.104.1 - WETTED AREA DATA

10 deg Deadrise, L/R = 0.000, Cv = 4

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Wetted Lengths   |                            |                         |                            |                         | Wetted Areas           |                     |                     | SKWL<br>in |
|--------|-------------|-------------|------------|------------------|----------------------------|-------------------------|----------------------------|-------------------------|------------------------|---------------------|---------------------|------------|
|        |             |             |            | Keel<br>Lk<br>in | Stbd<br>Chine<br>Lcs<br>in | Stbd<br>Beam<br>Bs<br>: | Port<br>Chine<br>Lcp<br>in | Port<br>Beam<br>Bp<br>: | Total<br>Atot<br>sq.ft | Stbd<br>As<br>sq.ft | Port<br>Ap<br>sq.ft |            |
| 2115   | -2          | -10         | 0          | 47.0             | 47.0                       | 1.0                     | 47.0                       | 1.0                     | 2.68                   | 1.34                | 1.34                | 46.83      |
| 2077   | -2          | 10          | 0          | 47.0             | 47.0                       | 1.0                     | 47.0                       | 1.0                     | 2.68                   | 1.34                | 1.34                | 46.89      |
| 2093 * | -2          | 20          | 0          | 47.0             | 47.0                       | 1.0                     | 47.0                       | 1.0                     | 2.68                   | 1.34                | 1.34                | 46.90      |
| 2097 * | -2          | 20          | 5          | 47.0             | 47.0                       | 1.0                     | 40.0                       | 0.5                     | 2.00                   | 1.34                | 0.66                | 46.86      |
| 2105   | -2          | 20          | 10         | 47.0             | 47.0                       | 1.0                     | 45.0                       | 1.0                     | 2.68                   | 1.34                | 1.34                | 46.02      |
| 2107   | -2          | 20          | 10         | 47.0             | 47.0                       | 1.0                     | 47.0                       | 1.0                     | 2.68                   | 1.34                | 1.34                | 46.71      |
| 2109   | -2          | 20          | 12         | 44.3             | 44.0                       | 1.0                     | 20.0                       | 0.9                     | 2.23                   | 1.31                | 0.92                | 45.02      |
| 2104   | -2          | 20          | 15         | 42.2             | 42.0                       | 1.0                     | 0.0                        | 0.3                     | 1.48                   | 1.28                | 0.20                | 42.66      |
| 1832   | 0           | -10         | 0          | 44.7             | 38.0                       | 1.0                     | 43.6                       | 1.0                     | 2.58                   | 1.27                | 1.31                | 44.62      |
| 1836   | 0           | -10         | 5          | 46.2             | 46.0                       | 1.0                     | 46.0                       | 1.0                     | 2.68                   | 1.34                | 1.34                | 45.64      |
| 1842   | 0           | -10         | 10         | 46.0             | 44.0                       | 1.0                     | 46.0                       | 1.0                     | 2.66                   | 1.33                | 1.34                | 45.67      |
| 1846   | 0           | -10         | 15         | 46.0             | 43.0                       | 1.0                     | 46.0                       | 1.0                     | 2.66                   | 1.32                | 1.34                | 44.98      |
| 1763   | 0           | 0           | 0          | 44.8             | 42.2                       | 1.0                     | 42.8                       | 1.0                     | 2.62                   | 1.31                | 1.31                | 45.08      |
| 1767   | 0           | 0           | 5          | 45.0             | 43.0                       | 1.0                     | 43.5                       | 1.0                     | 2.63                   | 1.31                | 1.32                | 45.86      |
| 1772 * | 0           | 0           | 10         | 46.5             | 46.5                       | 1.0                     | 46.5                       | 1.0                     | 2.68                   | 1.34                | 1.34                | 45.88      |
| 1776 * | 0           | 0           | 15         | 47.0             | 47.0                       | 1.0                     | 47.0                       | 1.0                     | 2.68                   | 1.34                | 1.34                | 44.83      |
| 1782   | 0           | 10          | 0          | 44.8             | 43.5                       | 1.0                     | 40.3                       | 1.0                     | 2.60                   | 1.31                | 1.29                | 44.74      |
| 1786   | 0           | 10          | 5          | 43.5             | 41.8                       | 1.0                     | 35.5                       | 1.0                     | 2.51                   | 1.29                | 1.22                | 43.72      |
| 1791   | 0           | 10          | 10         | 41.5             | 39.0                       | 1.0                     | 24.0                       | 1.0                     | 2.27                   | 1.24                | 1.04                | 41.75      |
| 1795   | 0           | 10          | 15         | 39.2             | 36.0                       | 1.0                     | 5.0                        | 1.0                     | 1.87                   | 1.17                | 0.70                | 39.85      |
| 1812   | 0           | 21          | 0          | 44.2             | 44.0                       | 1.0                     | 20.0                       | 1.0                     | 2.33                   | 1.31                | 1.02                | 43.75      |
| 1818   | 0           | 21          | 5          | 42.9             | 42.5                       | 1.0                     | 24.0                       | 1.0                     | 2.35                   | 1.29                | 1.06                | 42.52      |
| 1822   | 0           | 21          | 10         | 37.0             | 38.2                       | 1.0                     | 0.0                        | 0.5                     | 1.46                   | 1.17                | 0.29                | 37.12      |
| 1826   | 0           | 21          | 15         | 18.0             | 34.0                       | 1.0                     | 0.0                        | 0.2                     | 0.89                   | 0.84                | 0.06                | 0.00       |
| 1921   | 3           | -11         | 0          | 29.2             | 16.0                       | 1.0                     | 29.0                       | 1.0                     | 1.64                   | 0.72                | 0.92                | 27.78      |
| 1925   | 3           | -11         | 5          | 34.3             | 16.0                       | 1.0                     | 33.3                       | 1.0                     | 1.86                   | 0.80                | 1.06                | 33.62      |
| 1929   | 3           | -11         | 10         | 39.1             | 25.0                       | 1.0                     | 37.6                       | 1.0                     | 2.20                   | 1.01                | 1.19                | 38.58      |
| 1934   | 3           | -11         | 15         | 44.0             | 38.5                       | 1.0                     | 43.0                       | 1.0                     | 2.57                   | 1.26                | 1.30                | 43.15      |
| 1853   | 3           | 0           | 0          | 26.2             | 17.5                       | 1.0                     | 17.5                       | 1.0                     | 1.39                   | 0.69                | 0.69                | 26.94      |
| 1859   | 3           | 0           | 5          | 27.0             | 18.0                       | 1.0                     | 18.5                       | 1.0                     | 1.44                   | 0.71                | 0.72                | 26.94      |
| 1863   | 3           | 0           | 10         | 26.6             | 18.0                       | 1.0                     | 18.0                       | 1.0                     | 1.42                   | 0.71                | 0.71                | 26.94      |
| 1867   | 3           | 0           | 15         | 29.3             | 20.6                       | 1.0                     | 21.0                       | 1.0                     | 1.59                   | 0.79                | 0.80                | 29.62      |

\* Indicates model was close to heave stop

TABLE 4.104.2 - WETTED AREA DATA

10 deg Deadrise, L/R = 0.000, Cv = 4

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Wetted Lengths   |                            |                         |                            |                         | Wetted Areas           |                     |                     | SKWL<br>in |
|------|-------------|-------------|------------|------------------|----------------------------|-------------------------|----------------------------|-------------------------|------------------------|---------------------|---------------------|------------|
|      |             |             |            | Keel<br>Lk<br>in | Stbd<br>Chine<br>Lcs<br>in | Stbd<br>Beam<br>Bs<br>: | Port<br>Chine<br>Lcp<br>in | Port<br>Beam<br>Bp<br>: | Total<br>Atot<br>sq.ft | Stbd<br>As<br>sq.ft | Port<br>Ap<br>sq.ft |            |
| 1883 | 3           | 10          | 0          | 27.9             | 27.2                       | 1.0                     | 13.0                       | 1.0                     | 1.52                   | 0.87                | 0.65                | 26.88      |
| 1887 | 3           | 10          | 5          | 20.3             | 19.7                       | 1.0                     | 5.0                        | 1.0                     | 1.04                   | 0.63                | 0.40                | 18.29      |
| 1893 | 3           | 10          | 10         | 16.2             | 15.6                       | 1.0                     | 1.0                        | 1.0                     | 0.78                   | 0.50                | 0.27                | 13.70      |
| 1897 | 3           | 10          | 15         | 13.4             | 12.8                       | 1.0                     | 0.0                        | 0.8                     | 0.59                   | 0.42                | 0.17                | 11.22      |
| 1903 | 3           | 21          | 0          | 34.2             | 30.0                       | 1.0                     | 10.0                       | 1.0                     | 1.71                   | 1.01                | 0.70                | 25.89      |
| 1907 | 3           | 21          | 5          | 20.3             | 23.6                       | 1.0                     | 0.0                        | 0.5                     | 0.86                   | 0.70                | 0.16                | 14.04      |
| 1911 | 3           | 21          | 10         | 11.9             | 21.1                       | 1.0                     | 0.0                        | 0.6                     | 0.64                   | 0.52                | 0.11                | 4.49       |
| 1915 | 3           | 21          | 15         | 7.0              | 15.4                       | 1.0                     | 0.0                        | 0.3                     | 0.39                   | 0.36                | 0.03                | 0.00       |
| 2025 | 6           | -10         | 0          | 9.8              | 0.0                        | 1.0                     | 9.8                        | 1.0                     | 0.47                   | 0.16                | 0.31                | 9.06       |
| 2029 | 6           | -10         | 5          | 13.0             | 4.0                        | 1.0                     | 13.0                       | 1.0                     | 0.68                   | 0.27                | 0.41                | 12.03      |
| 2033 | 6           | -10         | 10         | 16.0             | 6.5                        | 1.0                     | 16.0                       | 1.0                     | 0.86                   | 0.36                | 0.51                | 15.38      |
| 2037 | 6           | -10         | 15         | 21.0             | 12.0                       | 1.0                     | 21.0                       | 1.0                     | 1.19                   | 0.52                | 0.67                | 20.26      |
| 1966 | 6           | 0           | 0          | 7.9              | 2.8                        | 1.0                     | 2.8                        | 1.0                     | 0.34                   | 0.17                | 0.17                | 6.60       |
| 1971 | 6           | 0           | 5          | 7.7              | 2.7                        | 1.0                     | 3.0                        | 1.0                     | 0.33                   | 0.17                | 0.17                | 6.70       |
| 1975 | 6           | 0           | 10         | 8.0              | 3.0                        | 1.0                     | 3.3                        | 1.0                     | 0.35                   | 0.17                | 0.18                | 6.89       |
| 1979 | 6           | 0           | 15         | 8.5              | 3.6                        | 1.0                     | 3.6                        | 1.0                     | 0.38                   | 0.19                | 0.19                | 7.37       |
| 1985 | 6           | 10          | 0          | 9.5              | 9.5                        | 1.0                     | 0.0                        | 1.0                     | 0.45                   | 0.30                | 0.15                | 6.96       |
| 1989 | 6           | 10          | 5          | 8.0              | 8.0                        | 1.0                     | 0.0                        | 0.9                     | 0.37                   | 0.25                | 0.11                | 5.52       |
| 1994 | 6           | 10          | 10         | 7.0              | 6.7                        | 1.0                     | 0.0                        | 0.7                     | 0.30                   | 0.22                | 0.08                | 5.52       |
| 1998 | 6           | 10          | 15         | 6.2              | 6.0                        | 1.0                     | 0.0                        | 0.6                     | 0.25                   | 0.19                | 0.06                | 4.76       |
| 2005 | 6           | 20          | 0          | 13.0             | 17.1                       | 1.0                     | 0.0                        | 0.8                     | 0.64                   | 0.48                | 0.17                | 9.58       |
| 2010 | 6           | 20          | 5          | 9.0              | 13.1                       | 1.0                     | 0.0                        | 0.6                     | 0.44                   | 0.35                | 0.09                | 5.56       |
| 2014 | 6           | 20          | 10         | 5.5              | 9.7                        | 1.0                     | 0.0                        | 0.4                     | 0.28                   | 0.24                | 0.03                | 1.92       |
| 2018 | 6           | 20          | 15         | 3.8              | 8.2                        | 1.0                     | 0.0                        | 0.3                     | 0.21                   | 0.19                | 0.02                | 0.68       |

\* Indicates model was close to heave stop

TABLE 4.111.1 - WETTED AREA DATA

10 deg Deadrise, L/R = 0.117, Cv = 1.5

| RUN | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Wetted Lengths   |                            |                         |                            |                         | Wetted Areas           |                     |                     | SKWL<br>in<br>new |
|-----|-------------|-------------|------------|------------------|----------------------------|-------------------------|----------------------------|-------------------------|------------------------|---------------------|---------------------|-------------------|
|     |             |             |            | Keel<br>Lk<br>in | Stbd<br>Chine<br>Lcs<br>in | Stbd<br>Beam<br>Bs<br>: | Port<br>Chine<br>Lcp<br>in | Port<br>Beam<br>Bp<br>: | Total<br>Atot<br>sq.ft | Stbd<br>As<br>sq.ft | Port<br>Ap<br>sq.ft |                   |
| 754 | 0           | -10         | -15        | 46.1             | 44.0                       | 1.0                     | 46.0                       | 1.0                     | 2.67                   | 1.33                | 1.34                | 45.31             |
| 750 | 0           | -10         | -10        | 45.5             | 43.2                       | 1.0                     | 45.0                       | 1.0                     | 2.65                   | 1.32                | 1.33                | 45.11             |
| 746 | 0           | -10         | -5         | 45.3             | 43.0                       | 1.0                     | 45.0                       | 1.0                     | 2.64                   | 1.32                | 1.33                | 45.05             |
| 733 | 0           | -10         | 0          | 45.4             | 42.0                       | 1.0                     | 44.8                       | 1.0                     | 2.64                   | 1.31                | 1.33                | 45.01             |
| 737 | 0           | -10         | 5          | 45.3             | 42.6                       | 1.0                     | 45.0                       | 1.0                     | 2.64                   | 1.31                | 1.33                | 45.13             |
| 741 | 0           | -10         | 10         | 46.0             | 44.0                       | 1.0                     | 45.6                       | 1.0                     | 2.66                   | 1.33                | 1.34                | 45.48             |
| 665 | 0           | 0           | -10        | 46.0             | 45.0                       | 1.0                     | 45.0                       | 1.0                     | 2.67                   | 1.33                | 1.33                | 45.53             |
| 661 | 0           | 0           | -5         | 45.2             | 44.0                       | 1.0                     | 44.0                       | 1.0                     | 2.64                   | 1.32                | 1.32                | 45.34             |
| 649 | 0           | 0           | 0          | 45.0             | 43.2                       | 1.0                     | 43.2                       | 1.0                     | 2.63                   | 1.31                | 1.31                | 45.21             |
| 652 | 0           | 0           | 5          | 45.0             | 43.8                       | 1.0                     | 43.8                       | 1.0                     | 2.64                   | 1.32                | 1.32                | 45.26             |
| 657 | 0           | 0           | 10         | 45.5             | 44.2                       | 1.0                     | 44.2                       | 1.0                     | 2.65                   | 1.33                | 1.33                | 45.41             |
| 690 | 0           | 10          | -10        | 46.0             | 45.3                       | 1.0                     | 45.0                       | 1.0                     | 2.67                   | 1.33                | 1.33                | 45.67             |
| 686 | 0           | 10          | -5         | 45.5             | 44.0                       | 1.0                     | 43.0                       | 1.0                     | 2.64                   | 1.32                | 1.32                | 45.36             |
| 669 | 0           | 10          | 0          | 45.0             | 44.3                       | 1.0                     | 42.5                       | 1.0                     | 2.63                   | 1.32                | 1.31                | 45.25             |
| 673 | 0           | 10          | 5          | 45.0             | 44.4                       | 1.0                     | 42.0                       | 1.0                     | 2.63                   | 1.32                | 1.31                | 45.24             |
| 677 | 0           | 10          | 10         | 46.0             | 46.0                       | 1.0                     | 46.0                       | 1.0                     | 2.67                   | 1.34                | 1.34                | 45.31             |
| 682 | 0           | 10          | 15         | 45.7             | 45.0                       | 1.0                     | 44.0                       | 1.0                     | 2.66                   | 1.33                | 1.33                | 45.47             |
| 729 | 0           | 20          | -10        | 46.0             | 46.0                       | 1.0                     | 34.0                       | 0.8                     | 2.33                   | 1.34                | 0.99                | 45.39             |
| 725 | 0           | 20          | -5         | 45.0             | 45.0                       | 1.0                     | 35.0                       | 0.6                     | 2.07                   | 1.33                | 0.74                | 45.04             |
| 708 | 0           | 20          | 0          | 45.0             | 45.0                       | 1.0                     | 32.0                       | 0.5                     | 1.93                   | 1.33                | 0.60                | 44.83             |
| 712 | 0           | 20          | 5          | 45.0             | 45.0                       | 1.0                     | 25.0                       | 0.5                     | 1.88                   | 1.33                | 0.55                | 44.87             |
| 716 | 0           | 20          | 10         | 44.8             | 44.8                       | 1.0                     | 23.0                       | 0.5                     | 1.86                   | 1.32                | 0.54                | 44.91             |
| 721 | 0           | 20          | 15         | 44.7             | 44.7                       | 1.0                     | 17.0                       | 0.7                     | 2.01                   | 1.32                | 0.69                | 44.99             |
| 884 | 3           | -10         | -15        | 40.2             | 31.5                       | 1.0                     | 39.0                       | 1.0                     | 2.35                   | 1.13                | 1.22                | 39.92             |
| 888 | 3           | -10         | -10        | 40.0             | 29.6                       | 1.0                     | 38.4                       | 1.0                     | 2.31                   | 1.10                | 1.21                | 39.53             |
| 892 | 3           | -10         | -5         | 40.0             | 29.0                       | 1.0                     | 38.3                       | 1.0                     | 2.30                   | 1.09                | 1.21                | 39.68             |
| 896 | 3           | -10         | 0          | 40.0             | 29.0                       | 1.0                     | 38.2                       | 1.0                     | 2.30                   | 1.09                | 1.21                | 39.63             |
| 900 | 3           | -10         | 5          | 40.2             | 31.0                       | 1.0                     | 38.7                       | 1.0                     | 2.34                   | 1.12                | 1.22                | 40.06             |
| 904 | 3           | -10         | 10         | 41.1             | 32.6                       | 1.0                     | 39.8                       | 1.0                     | 2.39                   | 1.15                | 1.24                | 40.96             |
| 908 | 3           | -10         | 15         | 43.0             | 35.0                       | 1.0                     | 42.0                       | 1.0                     | 2.50                   | 1.21                | 1.29                | 42.43             |
| 803 | 3           | 0           | -15        | 41.1             | 37.0                       | 1.0                     | 37.2                       | 1.0                     | 2.42                   | 1.21                | 1.21                | 41.05             |
| 799 | 3           | 0           | -10        | 40.4             | 35.7                       | 1.0                     | 36.0                       | 1.0                     | 2.37                   | 1.18                | 1.19                | 40.58             |
| 795 | 3           | 0           | -5         | 40.0             | 35.0                       | 1.0                     | 35.0                       | 1.0                     | 2.34                   | 1.17                | 1.17                | 39.99             |
| 760 | 3           | 0           | 0          | 39.8             | 34.6                       | 1.0                     | 34.9                       | 1.0                     | 2.32                   | 1.16                | 1.16                | 39.26             |
| 764 | 3           | 0           | 5          | 40.0             | 34.6                       | 1.0                     | 35.2                       | 1.0                     | 2.33                   | 1.16                | 1.17                | 39.51             |
| 768 | 3           | 0           | 10         | 40.6             | 34.9                       | 1.0                     | 36.1                       | 1.0                     | 2.37                   | 1.18                | 1.19                | 39.99             |
| 809 | 3           | 0           | 10         | 40.3             | 36.0                       | 1.0                     | 36.1                       | 1.0                     | 2.37                   | 1.19                | 1.19                | 40.71             |
| 772 | 3           | 0           | 15         | 41.8             | 32.4                       | 1.0                     | 33.0                       | 1.0                     | 2.33                   | 1.16                | 1.17                | 41.00             |
| 789 | 3           | 0           | 15         | 42.0             | 37.9                       | 1.0                     | 38.3                       | 1.0                     | 2.47                   | 1.23                | 1.24                | 41.50             |

\* Indicates model was close to heave stop

TABLE 4.111.2 - WETTED AREA DATA

10 deg Deadrise, L/R = 0.117, Cv = 1.5

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Wetted Lengths   |                            |                         |                            |                         | Wetted Areas           |                     |                     | SKML<br>in |
|------|-------------|-------------|------------|------------------|----------------------------|-------------------------|----------------------------|-------------------------|------------------------|---------------------|---------------------|------------|
|      |             |             |            | Keel<br>Lk<br>in | Stbd<br>Chine<br>Lcs<br>in | Stbd<br>Beam<br>Bs<br>: | Port<br>Chine<br>Lcp<br>in | Port<br>Beam<br>Bp<br>: | Total<br>Atot<br>sq.ft | Stbd<br>As<br>sq.ft | Port<br>Ap<br>sq.ft |            |
| 837  | 3           | 10          | -15        | 42.2             | 40.2                       | 1.0                     | 35.0                       | 1.0                     | 2.46                   | 1.26                | 1.20                | 41.62      |
| 833  | 3           | 10          | -10        | 40.3             | 38.3                       | 1.0                     | 30.0                       | 1.0                     | 2.32                   | 1.21                | 1.11                | 40.29      |
| 840  | 3           | 10          | -10        | 41.0             | 39.2                       | 1.0                     | 31.0                       | 1.0                     | 2.36                   | 1.23                | 1.13                | 41.00      |
| 830  | 3           | 10          | -5         | 39.8             | 37.6                       | 1.0                     | 29.0                       | 1.0                     | 2.28                   | 1.20                | 1.08                | 39.73      |
| 812  | 3           | 10          | 0          |                  |                            |                         |                            |                         |                        |                     |                     | 39.68      |
| 813  | 3           | 10          | 0          | 39.2             | 37.1                       | 1.0                     | 28.0                       | 1.0                     | 2.24                   | 1.18                | 1.06                | 39.58      |
| 817  | 3           | 10          | 5          | 39.3             | 37.0                       | 1.0                     | 27.0                       | 1.0                     | 2.23                   | 1.18                | 1.05                | 39.43      |
| 821  | 3           | 10          | 10         | 39.7             | 37.7                       | 1.0                     | 30.0                       | 1.0                     | 2.30                   | 1.20                | 1.10                | 39.58      |
| 825  | 3           | 10          | 15         | 40.0             | 38.0                       | 1.0                     | 31.0                       | 1.0                     | 2.32                   | 1.21                | 1.12                | 39.87      |
| 876  | 3           | 20          | -15        | 42.2             | 42.2                       | 1.0                     | 10.0                       | 1.0                     | 2.11                   | 1.28                | 0.83                | 41.41      |
| 871  | 3           | 20          | -10        | 41.0             | 41.0                       | 1.0                     | 5.0                        | 1.0                     | 1.98                   | 1.25                | 0.73                | 39.86      |
| 854  | 3           | 20          | -5         | 40.0             | 40.0                       | 1.0                     | 0.0                        | 1.0                     | 1.86                   | 1.23                | 0.63                | 39.09      |
| 842  | 3           | 20          | 0          | 40.0             | 40.0                       | 1.0                     | 0.0                        | 1.0                     | 1.86                   | 1.23                | 0.63                | 38.81      |
| 846  | 3           | 20          | 5          | 44.5             | 44.5                       | 1.0                     | 21.0                       | 1.0                     | 2.36                   | 1.32                | 1.04                | 38.70      |
| 850  | 3           | 20          | 10         | 39.0             | 39.0                       | 1.0                     | 22.0                       | 1.0                     | 2.17                   | 1.21                | 0.97                | 38.41      |
| 879  | 3           | 20          | 15         | 39.5             | 39.5                       | 1.0                     | 23.7                       | 1.0                     | 2.22                   | 1.22                | 1.00                | 38.35      |
| 1054 | 6           | -10         | -15        | 31.6             | 23.0                       | 1.0                     | 31.3                       | 1.0                     | 1.86                   | 0.87                | 0.99                | 30.49      |
| 1050 | 6           | -10         | -10        | 31.4             | 23.0                       | 1.0                     | 31.1                       | 1.0                     | 1.85                   | 0.86                | 0.99                | 30.40      |
| 1045 | 6           | -10         | -5         | 31.2             | 22.0                       | 1.0                     | 31.0                       | 1.0                     | 1.83                   | 0.84                | 0.98                | 30.30      |
| 1012 | 6           | -10         | 0          | 31.0             | 21.8                       | 1.0                     | 30.2                       | 1.0                     | 1.80                   | 0.84                | 0.97                | 30.30      |
| 1034 | 6           | -10         | 0          | 31.0             | 21.8                       | 1.0                     | 30.7                       | 1.0                     | 1.81                   | 0.84                | 0.97                | 30.21      |
| 1039 | 6           | -10         | 5          | 32.1             | 23.0                       | 1.0                     | 31.7                       | 1.0                     | 1.88                   | 0.87                | 1.01                | 31.64      |
| 1016 | 6           | -10         | 10         | 33.1             | 24.2                       | 1.0                     | 32.2                       | 1.0                     | 1.94                   | 0.91                | 1.03                | 32.88      |
| 1020 | 6           | -10         | 15         | 35.7             | 26.0                       | 1.0                     | 34.3                       | 1.0                     | 2.07                   | 0.98                | 1.10                | 35.09      |
| 1038 | 6           | -10         | 15         | 36.4             | 27.8                       | 1.0                     | 35.5                       | 1.0                     | 2.14                   | 1.01                | 1.12                | 35.15      |
| 938  | 6           | 0           | -15        | 32.0             | 27.0                       | 1.0                     | 27.9                       | 1.0                     | 1.88                   | 0.93                | 0.95                | 31.95      |
| 934  | 6           | 0           | -10        | 31.1             | 26.0                       | 1.0                     | 26.8                       | 1.0                     | 1.82                   | 0.90                | 0.92                | 31.09      |
| 930  | 6           | 0           | -5         | 30.4             | 25.4                       | 1.0                     | 26.0                       | 1.0                     | 1.78                   | 0.88                | 0.89                | 30.61      |
| 913  | 6           | 0           | 0          | 30.4             | 25.5                       | 1.0                     | 26.0                       | 1.0                     | 1.78                   | 0.89                | 0.89                | 30.42      |
| 918  | 6           | 0           | 5          | 31.0             | 26.0                       | 1.0                     | 26.0                       | 1.0                     | 1.81                   | 0.90                | 0.90                | 31.00      |
| 922  | 6           | 0           | 10         | 31.0             | 26.2                       | 1.0                     | 26.6                       | 1.0                     | 1.82                   | 0.91                | 0.91                | 31.38      |
| 926  | 6           | 0           | 15         | 32.6             | 27.6                       | 1.0                     | 28.0                       | 1.0                     | 1.91                   | 0.95                | 0.96                | 32.72      |
| 979  | 6           | 10          | -15        | 33.5             | 32.5                       | 1.0                     | 24.5                       | 1.0                     | 1.96                   | 1.04                | 0.92                | 33.07      |
| 975  | 6           | 10          | -10        | 31.8             | 31.0                       | 1.0                     | 24.0                       | 1.0                     | 1.88                   | 0.99                | 0.88                | 31.45      |
| 971  | 6           | 10          | -5         | 30.3             | 30.0                       | 1.0                     | 22.0                       | 1.0                     | 1.78                   | 0.95                | 0.83                | 30.30      |
| 955  | 6           | 10          | 0          | 30.2             | 29.7                       | 1.0                     | 22.3                       | 1.0                     | 1.78                   | 0.95                | 0.83                | 30.01      |
| 959  | 6           | 10          | 5          | 30.2             | 29.2                       | 1.0                     | 22.0                       | 1.0                     | 1.77                   | 0.94                | 0.83                | 30.11      |
| 963  | 6           | 10          | 10         | 30.0             | 29.0                       | 1.0                     | 21.7                       | 1.0                     | 1.75                   | 0.93                | 0.82                | 29.82      |
| 967  | 6           | 10          | 15         | 30.1             | 29.2                       | 1.0                     | 22.0                       | 1.0                     | 1.76                   | 0.94                | 0.83                | 29.82      |
| 1003 | 6           | 20          | -15        | 29.0             | 30.2                       | 1.0                     | 10.0                       | 1.0                     | 1.56                   | 0.94                | 0.62                | 32.63      |
| 999  | 6           | 20          | -10        | 32.0             | 34.0                       | 1.0                     | 10.0                       | 1.0                     | 1.71                   | 1.04                | 0.67                | 30.15      |
| 995  | 6           | 20          | -5         | 30.4             | 32.7                       | 1.0                     | 14.0                       | 1.0                     | 1.70                   | 1.00                | 0.70                | 28.62      |
| 983  | 6           | 20          | 0          | 30.0             | 32.3                       | 1.0                     | 18.0                       | 1.0                     | 1.75                   | 0.98                | 0.76                | 27.75      |
| 987  | 6           | 20          | 5          | 29.0             | 31.9                       | 1.0                     | 17.0                       | 1.0                     | 1.69                   | 0.96                | 0.73                | 27.37      |
| 991  | 6           | 20          | 10         | 29.5             | 32.0                       | 1.0                     | 17.7                       | 1.0                     | 1.7                    | 0.97                | 0.75                | 27.37      |
| 1007 | 6           | 20          | 15         | 27.0             | 31.5                       | 1.0                     | 17.7                       | 1.0                     | 1.6                    | 0.93                | 0.71                | 26.22      |

\* Indicates model was close to heave stop

TABLE 4.113.1 - WETTED AREA DATA

10 deg Deadrise, L/R = 0.117, CV = 3

| RUN   | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Wetted Lengths   |                            |                         |                            |                         | Wetted Areas           |                     |                     | SKWL<br>in |
|-------|-------------|-------------|------------|------------------|----------------------------|-------------------------|----------------------------|-------------------------|------------------------|---------------------|---------------------|------------|
|       |             |             |            | Keel<br>Lk<br>in | Stbd<br>Chine<br>Lca<br>in | Stbd<br>Beam<br>Ba<br>: | Port<br>Chine<br>Lcp<br>in | Port<br>Beam<br>Bp<br>: | Total<br>Atot<br>sq.ft | Stbd<br>As<br>sq.ft | Port<br>Ap<br>sq.ft |            |
| 755   | 0           | -10         | -15        |                  |                            |                         |                            |                         |                        |                     |                     | 43.56      |
| 758   | 0           | -10         | -15        | 44.1             | 38.5                       | 1.0                     | 43.0                       | 1.0                     | 2.57                   | 1.26                | 1.30                | 43.52      |
| 751   | 0           | -10         | -10        | 45.0             | 41.6                       | 1.0                     | 44.1                       | 1.0                     | 2.62                   | 1.30                | 1.32                | 44.66      |
| 747   | 0           | -10         | -5         | 45.2             | 42.0                       | 1.0                     | 44.2                       | 1.0                     | 2.63                   | 1.31                | 1.32                | 44.92      |
| 734   | 0           | -10         | 0          | 45.0             | 41.0                       | 1.0                     | 44.2                       | 1.0                     | 2.62                   | 1.30                | 1.32                | 44.88      |
| 738   | 0           | -10         | 5          | 45.8             | 44.0                       | 1.0                     | 45.0                       | 1.0                     | 2.66                   | 1.33                | 1.33                | 45.32      |
| 742   | 0           | -10         | 10         | 46.7             | 46.7                       | 1.0                     | 46.7                       | 1.0                     | 2.68                   | 1.34                | 1.34                | 45.92      |
| 866 * | 0           | 0           | -10        | 47.0             | 47.0                       | 1.0                     | 47.0                       | 1.0                     | 2.68                   | 1.34                | 1.34                | 46.12      |
| 862   | 0           | 0           | -5         | 45.2             | 43.9                       | 1.0                     | 43.9                       | 1.0                     | 2.64                   | 1.32                | 1.32                | 45.27      |
| 850   | 0           | 0           | 0          | 45.0             | 42.9                       | 1.0                     | 42.9                       | 1.0                     | 2.63                   | 1.31                | 1.31                | 45.08      |
| 854   | 0           | 0           | 5          | 45.3             | 44.0                       | 1.0                     | 44.0                       | 1.0                     | 2.64                   | 1.32                | 1.32                | 45.38      |
| 858 * | 0           | 0           | 10         | 46.5             | 46.5                       | 1.0                     | 46.5                       | 1.0                     | 2.68                   | 1.34                | 1.34                | 46.14      |
| 891 * | 0           | 10          | -10        | 46.7             | 46.7                       | 1.0                     | 46.7                       | 1.0                     | 2.68                   | 1.34                | 1.34                | 46.11      |
| 887   | 0           | 10          | -5         | 45.5             | 44.8                       | 1.0                     | 43.0                       | 1.0                     | 2.65                   | 1.33                | 1.32                | 45.35      |
| 870   | 0           | 10          | 0          | 44.7             | 43.5                       | 1.0                     | 40.0                       | 1.0                     | 2.60                   | 1.31                | 1.29                | 44.98      |
| 874   | 0           | 10          | 5          | 45.0             | 44.0                       | 1.0                     | 41.0                       | 1.0                     | 2.62                   | 1.32                | 1.30                | 45.08      |
| 878   | 0           | 10          | 10         | 44.8             | 43.6                       | 1.0                     | 41.0                       | 1.0                     | 2.61                   | 1.32                | 1.30                | 45.03      |
| 883   | 0           | 10          | 15         | 43.5             | 42.2                       | 1.0                     | 38.0                       | 1.0                     | 2.52                   | 1.29                | 1.23                | 44.12      |
| 730 * | 0           | 20          | -10        | 46.5             | 46.5                       | 1.0                     | 46.5                       | 1.0                     | 2.68                   | 1.34                | 1.34                | 45.92      |
| 726   | 0           | 20          | -5         | 45.5             | 45.0                       | 1.0                     | 45.0                       | 1.0                     | 2.66                   | 1.33                | 1.33                | 45.06      |
| 709   | 0           | 20          | 0          | 45.0             | 44.0                       | 1.0                     | 25.0                       | 0.5                     | 1.87                   | 1.32                | 0.55                | 44.03      |
| 713   | 0           | 20          | 5          | 44.0             | 44.0                       | 1.0                     | 31.0                       | 1.0                     | 2.49                   | 1.31                | 1.18                | 43.95      |
| 717   | 0           | 20          | 10         | 42.5             | 42.0                       | 1.0                     | 7.0                        | 1.0                     | 2.07                   | 1.28                | 0.79                | 42.12      |
| 718   | 0           | 20          | 10         | 42.2             | 42.2                       | 1.0                     | 0.0                        | 1.0                     | 1.95                   | 1.28                | 0.67                | 42.02      |
| 722   | 0           | 20          | 15         | 39.0             | 39.0                       | 1.0                     | 0.0                        | 0.5                     | 1.51                   | 1.21                | 0.31                | 38.74      |
| 885   | 3           | -10         | -15        | 24.0             | 9.0                        | 1.0                     | 25.0                       | 1.0                     | 1.30                   | 0.52                | 0.78                | 27.46      |
| 889   | 3           | -10         | -10        | 30.0             | 14.0                       | 1.0                     | 29.4                       | 1.0                     | 1.64                   | 0.70                | 0.94                | 32.04      |
| 893   | 3           | -10         | -5         | 34.8             | 20.0                       | 1.0                     | 33.1                       | 1.0                     | 1.94                   | 0.87                | 1.07                | 36.24      |
| 897   | 3           | -10         | 0          | 37.0             | 23.0                       | 1.0                     | 35.0                       | 1.0                     | 2.08                   | 0.95                | 1.13                | 37.45      |
| 901   | 3           | -10         | 5          | 38.0             | 25.0                       | 1.0                     | 36.0                       | 1.0                     | 2.15                   | 1.00                | 1.15                | 38.53      |
| 905   | 3           | -10         | 10         | 41.0             | 31.5                       | 1.0                     | 39.5                       | 1.0                     | 2.37                   | 1.14                | 1.24                | 40.83      |
| 909 * | 3           | -10         | 15         | 44.5             | 41.0                       | 1.0                     | 44.0                       | 1.0                     | 2.61                   | 1.29                | 1.32                | 44.39      |
| 804   | 3           | 0           | -15        | 36.8             | 29.4                       | 1.0                     | 29.8                       | 1.0                     | 2.09                   | 1.04                | 1.05                | 37.64      |
| 800   | 3           | 0           | -10        | 36.3             | 28.3                       | 1.0                     | 29.1                       | 1.0                     | 2.05                   | 1.02                | 1.03                | 37.32      |
| 796   | 3           | 0           | -5         | 34.9             | 28.0                       | 1.0                     | 28.6                       | 1.0                     | 2.00                   | 0.99                | 1.00                | 37.12      |
| 761   | 3           | 0           | 0          | 36.3             | 27.4                       | 1.0                     | 28.9                       | 1.0                     | 2.04                   | 1.01                | 1.03                | 36.33      |
| 806   | 3           | 0           | 0          | 35.6             | 27.0                       | 1.0                     | 28.0                       | 1.0                     | 2.00                   | 0.99                | 1.00                | 37.12      |
| 765   | 3           | 0           | 5          | 35.4             | 28.0                       | 1.0                     | 28.0                       | 1.0                     | 2.00                   | 1.00                | 1.00                | 36.48      |
| 807   | 3           | 0           | 5          | 36.2             | 28.0                       | 1.0                     | 29.0                       | 1.0                     | 2.04                   | 1.01                | 1.03                | 37.45      |
| 769   | 3           | 0           | 10         | 36.2             | 28.8                       | 1.0                     | 29.0                       | 1.0                     | 2.05                   | 1.03                | 1.03                | 36.98      |
| 808   | 3           | 0           | 10         | 36.3             | 29.0                       | 1.0                     | 29.7                       | 1.0                     | 2.07                   | 1.03                | 1.04                | 37.83      |
| 773   | 3           | 0           | 15         | 39.0             | 32.5                       | 1.0                     | 33.4                       | 1.0                     | 2.25                   | 1.12                | 1.13                | 38.63      |
| 788   | 3           | 0           | 15         | 38.1             | 31.8                       | 1.0                     | 32.7                       | 1.0                     | 2.21                   | 1.10                | 1.11                | 38.90      |

\* Indicates model was close to heave stop

TABLE 4.113.2 - WETTED AREA DATA  
 10 deg Deadrise, L/R = 0.117, Cv = 3

| RUN   | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Wetted Lengths   |                            |                         |                            |                         | Wetted Areas           |                     |                     | SKWL<br>in |
|-------|-------------|-------------|------------|------------------|----------------------------|-------------------------|----------------------------|-------------------------|------------------------|---------------------|---------------------|------------|
|       |             |             |            | Keel<br>Lk<br>in | Stbd<br>Chine<br>Lcs<br>in | Stbd<br>Beam<br>Bs<br>: | Port<br>Chine<br>Lcp<br>in | Port<br>Beam<br>Bp<br>: | Total<br>Atot<br>sq.ft | Stbd<br>As<br>sq.ft | Port<br>Ap<br>sq.ft |            |
| 838   | 3           | 10          | -15        | 44.0             | 42.0                       | 1.0                     | 38.0                       | 1.0                     | 2.55                   | 1.30                | 1.26                | 42.39      |
| 834   | 3           | 10          | -10        | 38.9             | 36.5                       | 1.0                     | 27.0                       | 1.0                     | 2.21                   | 1.17                | 1.04                | 38.92      |
| 831   | 3           | 10          | -5         | 36.2             | 34.1                       | 1.0                     | 22.0                       | 1.0                     | 2.03                   | 1.10                | 0.92                | 37.05      |
| 814   | 3           | 10          | 0          | 35.0             | 32.6                       | 1.0                     | 20.0                       | 1.0                     | 1.94                   | 1.06                | 0.87                | 36.16      |
| 818   | 3           | 10          | 5          | 30.7             | 29.5                       | 1.0                     | 15.7                       | 1.0                     | 1.69                   | 0.95                | 0.74                | 33.95      |
| 822   | 3           | 10          | 10         | 20.2             | 29.8                       | 1.0                     | 10.5                       | 1.0                     | 1.28                   | 0.80                | 0.49                | 28.03      |
| 826   | 3           | 10          | 15         | 19.0             | 18.1                       | 1.0                     | 4.0                        | 1.0                     | 0.95                   | 0.59                | 0.36                | 22.87      |
| 877 * | 3           | 20          | -15        | 45.0             | 44.2                       | 1.0                     | 36.0                       | 1.0                     | 2.57                   | 1.32                | 1.25                | 43.92      |
| 872   | 3           | 20          | -10        | 40.2             | 40.2                       | 1.0                     | 15.0                       | 1.0                     | 2.11                   | 1.23                | 0.88                | 39.46      |
| 855   | 3           | 20          | -5         | 37.0             | 38.0                       | 1.0                     | 5.0                        | 1.0                     | 1.83                   | 1.17                | 0.67                | 36.77      |
| 868   | 3           | 20          | -5         | 37.0             | 37.9                       | 1.0                     | 3.0                        | 1.0                     | 1.80                   | 1.17                | 0.63                | 36.15      |
| 843   | 3           | 20          | 0          | 34.3             | 36.1                       | 1.0                     | 10.0                       | 1.0                     | 1.81                   | 1.10                | 0.70                | 34.50      |
| 847   | 3           | 20          | 5          | 33.0             | 29.0                       | 1.0                     | 7.0                        | 1.0                     | 1.61                   | 0.98                | 0.63                | 29.04      |
| 851   | 3           | 20          | 10         | 20.0             | 27.2                       | 1.0                     | 0.0                        | 0.9                     | 1.04                   | 0.75                | 0.29                | 18.92      |
| 880   | 3           | 20          | 15         | 13.5             | 20.9                       | 1.0                     | 0.0                        | 0.6                     | 0.67                   | 0.55                | 0.13                | 11.47      |
| 1055  | 6           | -10         | -15        | 12.5             | 3.5                        | 1.0                     | 12.9                       | 1.0                     | 0.66                   | 0.25                | 0.40                | 12.60      |
| 1051  | 6           | -10         | -10        | 15.3             | 6.2                        | 1.0                     | 15.7                       | 1.0                     | 0.83                   | 0.34                | 0.49                | 14.90      |
| 1047  | 6           | -10         | -5         | 18.2             | 9.1                        | 1.0                     | 18.2                       | 1.0                     | 1.01                   | 0.43                | 0.58                | 17.77      |
| 1013  | 6           | -10         | 0          | 20.1             | 11.2                       | 1.0                     | 20.1                       | 1.0                     | 1.13                   | 0.50                | 0.64                | 20.35      |
| 1057  | 6           | -10         | 0          | 21.1             | 12.0                       | 1.0                     | 21.3                       | 1.0                     | 1.20                   | 0.53                | 0.67                | 20.83      |
| 1041  | 6           | -10         | 5          | 22.9             | 13.8                       | 1.0                     | 23.0                       | 1.0                     | 1.31                   | 0.58                | 0.73                | 23.03      |
| 1017  | 6           | -10         | 10         | 26.1             | 17.0                       | 1.0                     | 26.1                       | 1.0                     | 1.51                   | 0.68                | 0.83                | 26.00      |
| 1021  | 6           | -10         | 15         | 32.0             | 23.0                       | 1.0                     | 31.1                       | 1.0                     | 1.87                   | 0.87                | 1.00                | 32.12      |
| 1037  | 6           | -10         | 15         | 32.6             | 23.0                       | 1.0                     | 32.2                       | 1.0                     | 1.90                   | 0.88                | 1.02                | 31.93      |
| 939   | 6           | 0           | -15        | 17.1             | 12.8                       | 1.0                     | 13.0                       | 1.0                     | 0.95                   | 0.47                | 0.48                | 18.46      |
| 935   | 6           | 0           | -10        | 17.8             | 13.0                       | 1.0                     | 13.5                       | 1.0                     | 0.99                   | 0.49                | 0.50                | 18.18      |
| 931   | 6           | 0           | -5         | 17.1             | 12.0                       | 1.0                     | 12.4                       | 1.0                     | 0.93                   | 0.46                | 0.47                | 17.99      |
| 914   | 6           | 0           | 0          | 17.1             | 12.0                       | 1.0                     | 12.5                       | 1.0                     | 0.93                   | 0.46                | 0.47                | 17.70      |
| 919   | 6           | 0           | 5          | 18.0             | 13.0                       | 1.0                     | 18.0                       | 1.0                     | 1.06                   | 0.49                | 0.57                | 18.08      |
| 923   | 6           | 0           | 10         | 17.0             | 12.5                       | 1.0                     | 12.6                       | 1.0                     | 0.94                   | 0.47                | 0.47                | 17.99      |
| 927   | 6           | 0           | 15         | 18.1             | 12.9                       | 1.0                     | 13.0                       | 1.0                     | 0.99                   | 0.49                | 0.49                | 18.75      |
| 980   | 6           | 10          | -15        | 25.0             | 25.2                       | 1.0                     | 17.1                       | 1.0                     | 1.46                   | 0.80                | 0.67                | 25.61      |
| 976   | 6           | 10          | -10        | 22.0             | 21.6                       | 1.0                     | 13.7                       | 1.0                     | 1.26                   | 0.69                | 0.57                | 22.84      |
| 972   | 6           | 10          | -5         | 20.0             | 20.0                       | 1.0                     | 11.0                       | 1.0                     | 1.13                   | 0.63                | 0.49                | 20.35      |
| 956   | 6           | 10          | 0          | 17.0             | 16.0                       | 1.0                     | 8.0                        | 1.0                     | 0.92                   | 0.52                | 0.40                | 17.19      |
| 960   | 6           | 10          | 5          | 13.7             | 13.0                       | 1.0                     | 5.0                        | 1.0                     | 0.72                   | 0.42                | 0.30                | 14.23      |
| 964   | 6           | 10          | 10         | 11.5             | 11.3                       | 1.0                     | 3.0                        | 1.0                     | 0.59                   | 0.36                | 0.23                | 12.12      |
| 968   | 6           | 10          | 15         | 10.0             | 9.3                        | 1.0                     | 0.0                        | 1.0                     | 0.46                   | 0.31                | 0.16                | 10.98      |
| 1004  | 6           | 20          | -15        | 31.0             | 33.4                       | 1.0                     | 15.0                       | 1.0                     | 1.75                   | 1.02                | 0.73                | 29.28      |
| 1000  | 6           | 20          | -10        | 26.0             | 29.7                       | 1.0                     | 12.0                       | 1.0                     | 1.49                   | 0.88                | 0.60                | 24.31      |
| 996   | 6           | 20          | -5         | 22.5             | 26.5                       | 1.0                     | 9.7                        | 1.0                     | 1.29                   | 0.78                | 0.51                | 21.06      |
| 984   | 6           | 20          | 0          | 18.5             | 22.5                       | 1.0                     | 7.0                        | 1.0                     | 1.06                   | 0.65                | 0.40                | 17.90      |
| 988   | 6           | 20          | 5          | 13.9             | 17.8                       | 1.0                     | 0.0                        | 1.0                     | 0.72                   | 0.50                | 0.22                | 12.26      |
| 992   | 6           | 20          | 10         | 10.0             | 14.0                       | 1.0                     | 0.0                        | 0.8                     | 0.51                   | 0.38                | 0.13                | 8.91       |
| 1008  | 6           | 20          | 15         | 8.0              | 12.0                       | 1.0                     | 0.0                        | 0.6                     | 0.39                   | 0.32                | 0.08                | 6.52       |

\* Indicates model was close to heave stop



TABLE 4.114.1 - WETTED AREA DATA

10 deg Deadrise, L/R = 0.117, Cv = 4

| RUN   | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Wetted Lengths   |                            |                                     |                            |                                     | Wetted Areas                       |                                 |                                 | SKWL<br>in |       |
|-------|-------------|-------------|------------|------------------|----------------------------|-------------------------------------|----------------------------|-------------------------------------|------------------------------------|---------------------------------|---------------------------------|------------|-------|
|       |             |             |            | Keel<br>Lk<br>in | Stbd<br>Chine<br>Lee<br>in | Stbd<br>Beam<br>B <sub>s</sub><br>: | Port<br>Chine<br>Lop<br>in | Port<br>Beam<br>B <sub>p</sub><br>: | Total<br>A <sub>tot</sub><br>sq.ft | Stbd<br>A <sub>s</sub><br>sq.ft | Port<br>A <sub>p</sub><br>sq.ft |            |       |
| 756   | 0           | -10         | -15        |                  |                            |                                     |                            |                                     |                                    |                                 |                                 |            | 40.91 |
| 757   | 0           | -10         | -15        | 41.5             | 21.0                       | 1.0                                 | 38.9                       | 1.0                                 | 2.23                               | 0.99                            | 1.24                            |            | 40.86 |
| 752   | 0           | -10         | -10        | 43.1             | 35.0                       | 1.0                                 | 41.7                       | 1.0                                 | 2.50                               | 1.21                            | 1.28                            |            | 42.65 |
| 748   | 0           | -10         | -5         | 45.0             | 41.0                       | 1.0                                 | 44.0                       | 1.0                                 | 2.62                               | 1.30                            | 1.32                            |            | 44.81 |
| 735   | 0           | -10         | 0          | 45.3             | 42.5                       | 1.0                                 | 44.7                       | 1.0                                 | 2.64                               | 1.31                            | 1.33                            |            | 45.03 |
| 739   | 0           | -10         | 5          | 46.8             | 46.2                       | 1.0                                 | 46.6                       | 1.0                                 | 2.68                               | 1.34                            | 1.34                            |            | 45.93 |
| 743   | 0           | -10         | 10         | 46.5             | 46.5                       | 1.0                                 | 46.5                       | 1.0                                 | 2.68                               | 1.34                            | 1.34                            |            | 45.93 |
| 667 * | 0           | 0           | -10        | 47.0             | 47.0                       | 1.0                                 | 47.0                       | 1.0                                 | 2.68                               | 1.34                            | 1.34                            |            | 46.12 |
| 663   | 0           | 0           | -5         | 46.0             | 45.0                       | 1.0                                 | 45.0                       | 1.0                                 | 2.67                               | 1.33                            | 1.33                            |            | 45.51 |
| 651   | 0           | 0           | 0          | 45.2             | 43.7                       | 1.0                                 | 43.7                       | 1.0                                 | 2.64                               | 1.32                            | 1.32                            |            | 45.23 |
| 655   | 0           | 0           | 5          | 45.0             | 43.3                       | 1.0                                 | 43.3                       | 1.0                                 | 2.63                               | 1.32                            | 1.32                            |            | 45.23 |
| 659 * | 0           | 0           | 10         | 46.5             | 46.5                       | 1.0                                 | 46.5                       | 1.0                                 | 2.68                               | 1.34                            | 1.34                            |            | 46.13 |
| 692 * | 0           | 10          | -10        | 46.5             | 46.5                       | 1.0                                 | 46.5                       | 1.0                                 | 2.68                               | 1.34                            | 1.34                            |            | 46.10 |
| 688 * | 0           | 10          | -5         | 46.5             | 46.5                       | 1.0                                 | 46.5                       | 1.0                                 | 2.68                               | 1.34                            | 1.34                            |            | 46.10 |
| 671   | 0           | 10          | 0          | 45.0             | 44.0                       | 1.0                                 | 41.2                       | 1.0                                 | 2.62                               | 1.32                            | 1.30                            |            | 45.09 |
| 675   | 0           | 10          | 5          | 44.5             | 43.3                       | 1.0                                 | 40.0                       | 1.0                                 | 2.59                               | 1.31                            | 1.28                            |            | 44.96 |
| 679   | 0           | 10          | 10         |                  |                            |                                     |                            |                                     |                                    |                                 |                                 |            | 43.10 |
| 680   | 0           | 10          | 10         | 42.3             | 40.0                       | 1.0                                 | 30.0                       | 1.0                                 | 2.39                               | 1.26                            | 1.14                            |            | 43.01 |
| 684   | 0           | 10          | 15         | 40.3             | 37.4                       | 1.0                                 | 5.0                        | 1.0                                 | 1.92                               | 1.20                            | 0.72                            |            | 41.80 |
| 731 * | 0           | 20          | -10        | 46.5             | 46.5                       | 1.0                                 | 46.5                       | 1.0                                 | 2.68                               | 1.34                            | 1.34                            |            | 45.92 |
| 727 * | 0           | 20          | -5         | 46.5             | 46.5                       | 1.0                                 | 31.0                       | 0.8                                 | 2.31                               | 1.34                            | 0.97                            |            | 45.93 |
| 710   | 0           | 20          | 0          | 45.0             | 44.2                       | 1.0                                 | 0.0                        | 1.0                                 | 2.04                               | 1.32                            | 0.71                            |            | 44.48 |
| 714   | 0           | 20          | 5          | 43.5             | 43.0                       | 1.0                                 | 25.0                       | 1.0                                 | 2.38                               | 1.30                            | 1.08                            |            | 43.12 |
| 719   | 0           | 20          | 10         | 39.0             | 39.0                       | 1.0                                 | 0.0                        | 0.5                                 | 1.51                               | 1.21                            | 0.31                            |            | 38.82 |
| 723   | 0           | 20          | 15         | 25.0             | 35.0                       | 1.0                                 | 0.0                        | 0.2                                 | 1.03                               | 0.95                            | 0.08                            |            | 0.00  |
| 886   | 3           | -10         | -15        | 17.1             | 0.0                        | 1.0                                 | 17.1                       | 1.0                                 | 0.81                               | 0.27                            | 0.54                            |            | 20.39 |
| 890   | 3           | -10         | -10        | 20.0             | 3.0                        | 1.0                                 | 20.2                       | 1.0                                 | 1.00                               | 0.36                            | 0.64                            |            | 23.25 |
| 894   | 3           | -10         | -5         | 28.8             | 11.6                       | 1.0                                 | 28.1                       | 1.0                                 | 1.54                               | 0.64                            | 0.90                            |            | 30.13 |
| 898   | 3           | -10         | 0          | 33.4             | 17.0                       | 1.0                                 | 32.0                       | 1.0                                 | 1.83                               | 0.80                            | 1.03                            |            | 35.10 |
| 902   | 3           | -10         | 5          | 37.0             | 22.0                       | 1.0                                 | 35.0                       | 1.0                                 | 2.06                               | 0.94                            | 1.13                            |            | 37.45 |
| 906   | 3           | -10         | 10         | 41.0             | 31.5                       | 1.0                                 | 39.0                       | 1.0                                 | 2.37                               | 1.14                            | 1.23                            |            | 41.00 |
| 910 * | 3           | -10         | 15         | 44.5             | 40.0                       | 1.0                                 | 43.3                       | 1.0                                 | 2.59                               | 1.28                            | 1.31                            |            | 44.39 |
| 805   | 3           | 0           | -15        | 30.5             | 22.0                       | 1.0                                 | 23.0                       | 1.0                                 | 1.68                               | 0.83                            | 0.85                            |            | 33.99 |
| 801   | 3           | 0           | -10        | 30.7             | 26.4                       | 1.0                                 | 22.0                       | 1.0                                 | 1.74                               | 0.90                            | 0.84                            |            | 33.71 |
| 797   | 3           | 0           | -5         | 30.3             | 21.2                       | 1.0                                 | 21.7                       | 1.0                                 | 1.64                               | 0.82                            | 0.83                            |            | 33.40 |
| 762   | 3           | 0           | 0          | 30.5             | 21.9                       | 1.0                                 | 21.9                       | 1.0                                 | 1.66                               | 0.83                            | 0.83                            |            | 31.91 |
| 793   | 3           | 0           | 0          | 31.0             | 22.0                       | 1.0                                 | 22.4                       | 1.0                                 | 1.69                               | 0.84                            | 0.85                            |            | 33.85 |
| 766   | 3           | 0           | 5          | 30.8             | 20.8                       | 1.0                                 | 21.4                       | 1.0                                 | 1.65                               | 0.82                            | 0.83                            |            | 31.72 |
| 792   | 3           | 0           | 5          | 29.3             | 20.0                       | 1.0                                 | 20.9                       | 1.0                                 | 1.58                               | 0.78                            | 0.80                            |            | 33.23 |
| 770   | 3           | 0           | 10         | 31.2             | 21.7                       | 1.0                                 | 22.5                       | 1.0                                 | 1.69                               | 0.84                            | 0.85                            |            | 32.67 |
| 791   | 3           | 0           | 10         | 31.4             | 22.5                       | 1.0                                 | 23.0                       | 1.0                                 | 1.72                               | 0.86                            | 0.86                            |            | 34.36 |
| 774   | 3           | 0           | 15         | 34.5             | 26.0                       | 1.0                                 | 26.9                       | 1.0                                 | 1.93                               | 0.96                            | 0.97                            |            | 35.85 |
| 787   | 3           | 0           | 15         | 34.1             | 25.3                       | 1.0                                 | 26.0                       | 1.0                                 | 1.89                               | 0.94                            | 0.95                            |            | 36.01 |

\* Indicates model was close to heave stop

TABLE 4.114.2 - WETTED AREA DATA  
 10 deg Deadrise, L/R = 0.117, CV = 4

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Wetted Lengths               |  |                                     |  |                                     | Wetted Areas                       |                                 |                                 | SKWL<br>in |
|------|-------------|-------------|------------|------------------------------|--|-------------------------------------|--|-------------------------------------|------------------------------------|---------------------------------|---------------------------------|------------|
|      |             |             |            | Keel<br>L <sub>k</sub><br>in | Stbd<br>Chine<br>L <sub>cs</sub><br>in | Stbd<br>Beam<br>B <sub>s</sub><br>: | Port<br>Chine<br>L <sub>cp</sub><br>in | Port<br>Beam<br>B <sub>p</sub><br>: | Total<br>A <sub>tot</sub><br>sq.ft | Stbd<br>A <sub>s</sub><br>sq.ft | Port<br>A <sub>p</sub><br>sq.ft |            |
| 839  | 3           | 10          | -15        | 44.3                         | 43.4                                   | 1.0                                 | 41.0                                   | 1.0                                 | 2.60                               | 1.31                            | 1.29                            | 44.10      |
| 835  | 3           | 10          | -10        | 37.6                         | 35.0                                   | 1.0                                 | 24.0                                   | 1.0                                 | 2.11                               | 1.13                            | 0.98                            | 37.83      |
| 829  | 3           | 10          | -5         | 33.2                         | 31.0                                   | 1.0                                 | 17.0                                   | 1.0                                 | 1.81                               | 1.01                            | 0.80                            | 35.10      |
| 815  | 3           | 10          | 0          | 27.2                         | 26.4                                   | 1.0                                 | 11.0                                   | 1.0                                 | 1.46                               | 0.85                            | 0.61                            | 29.56      |
| 819  | 3           | 10          | 5          | 21.0                         | 21.0                                   | 1.0                                 | 4.2                                    | 1.0                                 | 1.07                               | 0.67                            | 0.40                            | 23.64      |
| 823  | 3           | 10          | 10         | 17.0                         | 16.0                                   | 1.0                                 | 0.0                                    | 1.0                                 | 0.79                               | 0.52                            | 0.27                            | 19.62      |
| 827  | 3           | 10          | 15         | 15.0                         | 13.5                                   | 1.0                                 | 0.0                                    | 0.8                                 | 0.64                               | 0.45                            | 0.19                            | 17.71      |
| 873  | 3           | 20          | -10        | 41.2                         | 41.0                                   | 1.0                                 | 20.0                                   | 1.0                                 | 2.23                               | 1.26                            | 0.97                            | 39.96      |
| 874  | 3           | 20          | -10        | 41.0                         | 41.0                                   | 1.0                                 | 20.0                                   | 1.0                                 | 2.22                               | 1.25                            | 0.97                            | 40.94      |
| 869  | 3           | 20          | -5         | 36.2                         | 27.2                                   | 1.0                                 | 10.0                                   | 1.0                                 | 1.74                               | 1.00                            | 0.73                            | 35.15      |
| 844  | 3           | 20          | 0          | 29.8                         | 33.9                                   | 1.0                                 | 4.0                                    | 1.0                                 | 1.54                               | 1.01                            | 0.54                            | 28.85      |
| 848  | 3           | 20          | 5          | 19.0                         | 27.3                                   | 1.0                                 | 0.0                                    | 0.7                                 | 0.95                               | 0.74                            | 0.21                            | 18.54      |
| 852  | 3           | 20          | 10         | 11.0                         | 19.3                                   | 1.0                                 | 0.0                                    | 0.4                                 | 0.55                               | 0.48                            | 0.07                            | 9.36       |
| 881  | 3           | 20          | 15         | 7.0                          | 14.5                                   | 1.0                                 | 0.0                                    | 0.2                                 | 0.36                               | 0.34                            | 0.02                            | 4.59       |
| 1056 | 6           | -10         | -15        | 8.2                          | 0.0                                    | 1.0                                 | 8.7                                    | 1.0                                 | 0.40                               | 0.13                            | 0.27                            | 8.97       |
| 1052 | 6           | -10         | -10        | 9.3                          | 0.0                                    | 1.0                                 | 9.3                                    | 1.0                                 | 0.44                               | 0.15                            | 0.30                            | 9.92       |
| 1048 | 6           | -10         | -5         | 11.0                         | 2.0                                    | 1.0                                 | 11.0                                   | 1.0                                 | 0.56                               | 0.21                            | 0.35                            | 11.45      |
| 1014 | 6           | -10         | 0          | 14.0                         | 4.0                                    | 1.0                                 | 13.9                                   | 1.0                                 | 0.73                               | 0.29                            | 0.44                            | 13.94      |
| 1043 | 6           | -10         | 0          | 14.0                         | 5.0                                    | 1.0                                 | 14.0                                   | 1.0                                 | 0.75                               | 0.30                            | 0.44                            | 14.04      |
| 1042 | 6           | -10         | 5          | 16.6                         | 7.0                                    | 1.0                                 | 16.5                                   | 1.0                                 | 0.90                               | 0.37                            | 0.53                            | 16.52      |
| 1018 | 6           | -10         | 10         | 20.2                         | 11.0                                   | 1.0                                 | 20.2                                   | 1.0                                 | 1.14                               | 0.50                            | 0.64                            | 20.64      |
| 1022 | 6           | -10         | 15         | 27.5                         | 18.0                                   | 1.0                                 | 27.6                                   | 1.0                                 | 1.59                               | 0.72                            | 0.87                            | 27.62      |
| 1036 | 6           | -10         | 15         | 27.2                         | 18.0                                   | 1.0                                 | 27.2                                   | 1.0                                 | 1.58                               | 0.72                            | 0.86                            | 27.34      |
| 940  | 6           | 0           | -15        | 10.0                         | 5.0                                    | 1.0                                 | 5.6                                    | 1.0                                 | 0.49                               | 0.24                            | 0.25                            | 11.67      |
| 936  | 6           | 0           | -10        | 10.0                         | 5.0                                    | 1.0                                 | 9.0                                    | 1.0                                 | 0.54                               | 0.24                            | 0.30                            | 11.29      |
| 932  | 6           | 0           | -5         | 14.4                         | 4.3                                    | 1.0                                 | 4.3                                    | 1.0                                 | 0.59                               | 0.30                            | 0.30                            | 11.00      |
| 915  | 6           | 0           | 0          | 10.0                         | 4.4                                    | 1.0                                 | 10.4                                   | 1.0                                 | 0.55                               | 0.23                            | 0.32                            | 11.19      |
| 916  | 6           | 0           | 0          | 9.5                          | 4.2                                    | 1.0                                 | 4.2                                    | 1.0                                 | 0.43                               | 0.22                            | 0.22                            | 11.10      |
| 920  | 6           | 0           | 5          | 10.0                         | 4.5                                    | 1.0                                 | 4.5                                    | 1.0                                 | 0.46                               | 0.23                            | 0.23                            | 11.00      |
| 924  | 6           | 0           | 10         | 10.0                         | 5.0                                    | 1.0                                 | 5.0                                    | 1.0                                 | 0.48                               | 0.24                            | 0.24                            | 11.48      |
| 928  | 6           | 0           | 15         | 10.5                         | 5.0                                    | 1.0                                 | 5.0                                    | 1.0                                 | 0.49                               | 0.25                            | 0.25                            | 11.67      |
| 981  | 6           | 10          | -15        | 19.0                         | 18.2                                   | 1.0                                 | 9.6                                    | 1.0                                 | 1.04                               | 0.59                            | 0.45                            | 18.92      |
| 977  | 6           | 10          | -10        | 15.5                         | 15.0                                   | 1.0                                 | 6.0                                    | 1.0                                 | 0.83                               | 0.48                            | 0.34                            | 15.95      |
| 973  | 6           | 10          | -5         | 12.5                         | 12.5                                   | 1.0                                 | 3.0                                    | 1.0                                 | 0.64                               | 0.40                            | 0.25                            | 12.79      |
| 957  | 6           | 10          | 0          | 10.0                         | 10.0                                   | 1.0                                 | 1.0                                    | 1.0                                 | 0.49                               | 0.32                            | 0.17                            | 10.98      |
| 961  | 6           | 10          | 5          | 9.0                          | 8.0                                    | 1.0                                 | 0.0                                    | 0.8                                 | 0.38                               | 0.27                            | 0.11                            | 9.64       |
| 965  | 6           | 10          | 10         | 8.0                          | 7.0                                    | 1.0                                 | 0.0                                    | 0.8                                 | 0.34                               | 0.24                            | 0.10                            | 8.87       |
| 969  | 6           | 10          | 15         | 7.0                          | 6.3                                    | 1.0                                 | 0.0                                    | 0.7                                 | 0.29                               | 0.21                            | 0.08                            | 8.30       |
| 1005 | 6           | 20          | -15        | 29.1                         | 32.3                                   | 1.0                                 | 13.5                                   | 1.0                                 | 1.65                               | 0.97                            | 0.68                            | 27.47      |
| 1001 | 6           | 20          | -10        | 21.4                         | 25.5                                   | 1.0                                 | 7.0                                    | 1.0                                 | 1.20                               | 0.74                            | 0.45                            | 19.62      |
| 997  | 6           | 20          | -5         | 16.2                         | 20.6                                   | 1.0                                 | 0.0                                    | 1.0                                 | 0.84                               | 0.58                            | 0.26                            | 14.93      |
| 985  | 6           | 20          | 0          | 13.0                         | 17.0                                   | 1.0                                 | 0.0                                    | 1.0                                 | 0.68                               | 0.48                            | 0.21                            | 11.49      |
| 989  | 6           | 20          | 5          | 7.7                          | 11.8                                   | 1.0                                 | 0.0                                    | 1.0                                 | 0.43                               | 0.31                            | 0.12                            | 6.61       |
| 993  | 6           | 20          | 10         | 5.3                          | 9.8                                    | 1.0                                 | 0.0                                    | 0.4                                 | 0.27                               | 0.24                            | 0.03                            | 4.32       |
| 1010 | 6           | 20          | 10         | 5.2                          | 9.6                                    | 1.0                                 | 0.0                                    | 0.3                                 | 0.26                               | 0.23                            | 0.02                            | 4.32       |
| 1009 | 6           | 20          | 15         | 4.0                          | 8.0                                    | 1.0                                 | 0.0                                    | 0.2                                 | 0.20                               | 0.19                            | 0.01                            | 3.07       |

\* Indicates model was close to heave stop

TABLE 4.121.1 - WETTED AREA DATA  
 10 deg Deadrise, L/R = 0.234, Cv = 1.5

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Wetted Lengths   |                            |                         |                            |                         | Wetted Areas           |                     |                     | SKWL<br>in |
|--------|-------------|-------------|------------|------------------|----------------------------|-------------------------|----------------------------|-------------------------|------------------------|---------------------|---------------------|------------|
|        |             |             |            | Keel<br>Lk<br>in | Stbd<br>Chine<br>Lcs<br>in | Stbd<br>Beam<br>Ba<br>: | Port<br>Chine<br>Lcp<br>in | Port<br>Beam<br>Bp<br>: | Total<br>Atot<br>sq.ft | Stbd<br>As<br>sq.ft | Port<br>Ap<br>sq.ft |            |
| 2472   | 0           | -10         | -15        | 46.0             | 44.8                       | 0.9                     | 46.0                       | 1.0                     | 2.54                   | 1.20                | 1.34                | 45.35      |
| 2463   | 0           | -10         | -10        | 45.3             | 43.0                       | 1.0                     | 45.0                       | 1.0                     | 2.54                   | 1.32                | 1.33                | 45.23      |
| 2459   | 0           | -10         | -5         | 45.2             | 42.5                       | 1.0                     | 44.6                       | 1.0                     | 2.64                   | 1.31                | 1.33                | 45.15      |
| 2428   | 0           | -10         | 0          | 44.5             | 40.0                       | 0.8                     | 43.5                       | 1.0                     | 2.34                   | 1.03                | 1.31                | 44.32      |
| 2432   | 0           | -10         | 5          | 45.3             | 42.5                       | 1.0                     | 44.8                       | 1.0                     | 2.64                   | 1.31                | 1.33                | 45.04      |
| 2436   | 0           | -10         | 10         | 46.0             | 37.0                       | 1.0                     | 45.0                       | 1.0                     | 2.61                   | 1.27                | 1.33                | 45.34      |
| 2455 * | 0           | -10         | 15         | 47.0             | 47.0                       | 1.0                     | 47.0                       | 1.0                     | 2.68                   | 1.34                | 1.34                | 46.12      |
| 2349   | 0           | 0           | -15        | 46.5             | 46.0                       | 1.0                     | 46.0                       | 1.0                     | 2.68                   | 1.34                | 1.34                | 45.62      |
| 2345   | 0           | 0           | -10        | 46.0             | 44.5                       | 1.0                     | 44.5                       | 1.0                     | 2.66                   | 1.33                | 1.33                | 45.24      |
| 2341   | 0           | 0           | -5         | 46.0             | 44.5                       | 1.0                     | 44.2                       | 1.0                     | 2.66                   | 1.33                | 1.33                | 45.12      |
| 2316   | 0           | 0           | 0          | 45.0             | 43.5                       | 1.0                     | 43.5                       | 1.0                     | 2.63                   | 1.32                | 1.32                | 45.06      |
| 2318   | 0           | 0           | 0          | 45.0             | 43.5                       | 1.0                     | 43.5                       | 1.0                     | 2.63                   | 1.32                | 1.32                | 45.06      |
| 2330   | 0           | 0           | 5          | 45.2             | 44.0                       | 1.0                     | 44.0                       | 1.0                     | 2.64                   | 1.32                | 1.32                | 45.07      |
| 2335   | 0           | 0           | 10         | 45.5             | 44.5                       | 1.0                     | 44.5                       | 1.0                     | 2.65                   | 1.33                | 1.33                | 45.20      |
| 2396   | 0           | 10          | -10        | 46.0             | 45.5                       | 1.0                     | 44.0                       | 1.0                     | 2.66                   | 1.34                | 1.33                | 45.41      |
| 2391   | 0           | 10          | -5         | 45.2             | 45.0                       | 1.0                     | 42.0                       | 1.0                     | 2.64                   | 1.33                | 1.31                | 45.13      |
| 2374   | 0           | 10          | 0          | 45.0             | 44.0                       | 1.0                     | 39.0                       | 1.0                     | 2.60                   | 1.32                | 1.28                | 44.55      |
| 2379   | 0           | 10          | 5          | 45.0             | 45.0                       | 1.0                     | 41.5                       | 1.0                     | 2.63                   | 1.33                | 1.30                | 45.01      |
| 2383   | 0           | 10          | 10         | 45.5             | 44.8                       | 1.0                     | 41.5                       | 1.0                     | 2.64                   | 1.33                | 1.31                | 45.12      |
| 2387   | 0           | 10          | 15         | 45.5             | 45.0                       | 1.0                     | 43.0                       | 1.0                     | 2.65                   | 1.33                | 1.32                | 45.24      |
| 2423 * | 0           | 20          | -15        | 46.0             | 47.0                       | 1.0                     | 42.0                       | 1.0                     | 2.66                   | 1.34                | 1.32                | 45.90      |
| 2420   | 0           | 20          | -10        | 46.0             | 46.0                       | 1.0                     | 35.0                       | 1.0                     | 2.59                   | 1.34                | 1.25                | 45.22      |
| 2416   | 0           | 20          | -5         | 45.3             | 45.0                       | 1.0                     | 38.0                       | 0.7                     | 2.22                   | 1.33                | 0.89                | 44.83      |
| 2400   | 0           | 20          | 0          | 44.5             | 44.2                       | 1.0                     | 35.0                       | 0.5                     | 1.93                   | 1.32                | 0.62                | 44.11      |
| 2404   | 0           | 20          | 5          | 45.0             | 45.0                       | 1.0                     | 30.0                       | 0.6                     | 2.03                   | 1.33                | 0.71                | 44.36      |
| 2408   | 0           | 20          | 10         | 44.6             | 44.6                       | 1.0                     | 30.0                       | 0.8                     | 2.26                   | 1.32                | 0.94                | 44.40      |
| 2412   | 0           | 20          | 15         | 45.0             | 44.5                       | 1.0                     | 34.0                       | 1.0                     | 2.55                   | 1.32                | 1.23                | 44.56      |
| 2600   | 3           | -10         | -15        | 40.3             | 32.5                       | 1.0                     | 39.0                       | 1.0                     | 2.36                   | 1.14                | 1.22                | 39.78      |
| 2596   | 3           | -10         | -10        | 40.0             | 31.0                       | 1.0                     | 38.3                       | 1.0                     | 2.33                   | 1.12                | 1.21                | 39.48      |
| 2591   | 3           | -10         | -5         | 40.0             | 31.0                       | 1.0                     | 38.2                       | 1.0                     | 2.32                   | 1.12                | 1.21                | 39.48      |
| 2586   | 3           | -10         | 0          | 40.0             | 31.0                       | 1.0                     | 38.4                       | 1.0                     | 2.33                   | 1.12                | 1.21                | 39.73      |
| 2604   | 3           | -10         | 5          | 40.7             | 32.0                       | 1.0                     | 38.9                       | 1.0                     | 2.37                   | 1.14                | 1.23                | 40.11      |
| 2608   | 3           | -10         | 10         | 41.7             | 34.4                       | 1.0                     | 40.0                       | 1.0                     | 2.44                   | 1.19                | 1.25                | 40.96      |
| 2612   | 3           | -10         | 15         | 43.3             | 38.0                       | 1.0                     | 42.0                       | 1.0                     | 2.54                   | 1.25                | 1.29                | 42.47      |
| 2502   | 3           | 0           | -15        | 40.8             | 36.5                       | 1.0                     | 36.2                       | 1.0                     | 2.39                   | 1.20                | 1.19                | 40.26      |
| 2498   | 3           | 0           | -10        | 40.0             | 36.0                       | 1.0                     | 35.2                       | 1.0                     | 2.35                   | 1.18                | 1.17                | 39.75      |
| 2494   | 3           | 0           | -5         | 39.8             | 35.0                       | 1.0                     | 34.2                       | 1.0                     | 2.32                   | 1.17                | 1.16                | 39.46      |
| 2478   | 3           | 0           | 0          | 39.7             | 34.6                       | 1.0                     | 34.5                       | 1.0                     | 2.32                   | 1.16                | 1.16                | 39.42      |
| 2482   | 3           | 0           | 5          | 40.0             | 35.0                       | 1.0                     | 35.0                       | 1.0                     | 2.34                   | 1.17                | 1.17                | 39.85      |
| 2486   | 3           | 0           | 10         | 40.6             | 36.5                       | 1.0                     | 36.0                       | 1.0                     | 2.39                   | 1.20                | 1.19                | 40.44      |
| 2490   | 3           | 0           | 15         | 42.0             | 38.0                       | 1.0                     | 38.0                       | 1.0                     | 2.46                   | 1.23                | 1.23                | 41.46      |

\* Indicates model was close to heave stop

TABLE 4.121.2 - WETTED AREA DATA  
 10 deg Deadrise, L/R = 0.234, Cv = 1.5

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Wetted Lengths               |  |                                     |  |                                     | Wetted Areas                       |                                 |                                 | SKWL<br>in |
|------|-------------|-------------|------------|------------------------------|--|-------------------------------------|--|-------------------------------------|------------------------------------|---------------------------------|---------------------------------|------------|
|      |             |             |            | Keel<br>L <sub>k</sub><br>in | Stbd<br>Chine<br>L <sub>cs</sub><br>in | Stbd<br>Beam<br>B <sub>s</sub><br>: | Port<br>Chine<br>L <sub>cp</sub><br>in | Port<br>Beam<br>B <sub>p</sub><br>: | Total<br>A <sub>tot</sub><br>sq.ft | Stbd<br>A <sub>s</sub><br>sq.ft | Port<br>A <sub>p</sub><br>sq.ft |            |
| 2536 | 3           | 10          | -15        | 41.4                         | 41.0                                   | 1.0                                 | 31.0                                   | 1.0                                 | 2.40                               | 1.26                            | 1.14                            | 40.96      |
| 2520 | 3           | 10          | -10        | 41.0                         | 39.0                                   | 1.0                                 | 32.0                                   | 1.0                                 | 2.38                               | 1.23                            | 1.14                            | 39.87      |
| 2516 | 3           | 10          | -5         | 35.9                         | 38.0                                   | 1.0                                 | 28.0                                   | 1.0                                 | 2.16                               | 1.15                            | 1.01                            | 39.33      |
| 2508 | 3           | 10          | 0          | 39.4                         | 37.7                                   | 1.0                                 | 28.0                                   | 1.0                                 | 2.26                               | 1.19                            | 1.06                            | 39.23      |
| 2512 | 3           | 10          | 5          | 39.4                         | 32.7                                   | 1.0                                 | 29.0                                   | 1.0                                 | 2.21                               | 1.13                            | 1.08                            | 39.02      |
| 2541 | 3           | 10          | 10         | 39.7                         | 38.0                                   | 1.0                                 | 30.0                                   | 1.0                                 | 2.30                               | 1.20                            | 1.10                            | 39.53      |
| 2546 | 3           | 10          | 15         | 40.0                         | 38.6                                   | 1.0                                 | 31.0                                   | 1.0                                 | 2.33                               | 1.21                            | 1.12                            | 39.87      |
| 2579 | 3           | 20          | -15        | 42.1                         | 41.8                                   | 1.0                                 | 10.0                                   | 1.0                                 | 2.10                               | 1.27                            | 0.83                            | 40.98      |
| 2575 | 3           | 20          | -10        | 40.6                         | 40.2                                   | 1.0                                 | 10.0                                   | 1.0                                 | 2.04                               | 1.24                            | 0.80                            | 39.46      |
| 2571 | 3           | 20          | -5         | 40.0                         | 40.0                                   | 1.0                                 | 7.0                                    | 1.0                                 | 1.98                               | 1.23                            | 0.75                            | 38.59      |
| 2567 | 3           | 20          | 0          | 40.0                         | 40.0                                   | 1.0                                 | 10.0                                   | 1.0                                 | 2.02                               | 1.23                            | 0.79                            | 38.29      |
| 2562 | 3           | 20          | 5          | 40.0                         | 40.0                                   | 1.0                                 | 25.0                                   | 1.0                                 | 2.26                               | 1.23                            | 1.03                            | 38.11      |
| 2557 | 3           | 20          | 10         | 39.0                         | 39.0                                   | 1.0                                 | 24.0                                   | 1.0                                 | 2.20                               | 1.21                            | 1.00                            | 37.93      |
| 2558 | 3           | 20          | 10         | 39.0                         | 39.0                                   | 1.0                                 | 24.0                                   | 1.0                                 | 2.20                               | 1.21                            | 1.00                            | 37.99      |
| 2553 | 3           | 20          | 15         | 39.0                         | 39.0                                   | 1.0                                 | 23.0                                   | 1.0                                 | 2.19                               | 1.21                            | 0.98                            | 37.41      |
| 3310 | 6           | -10         | -15        | 31.3                         | 22.5                                   | 1.0                                 | 30.8                                   | 1.0                                 | 1.83                               | 0.85                            | 0.98                            | 28.39      |
| 3306 | 6           | -10         | -10        | 30.7                         | 22.0                                   | 1.0                                 | 30.0                                   | 1.0                                 | 1.80                               | 0.84                            | 0.96                            | 28.29      |
| 3302 | 6           | -10         | -5         | 31.0                         | 30.8                                   | 1.0                                 | 23.0                                   | 1.0                                 | 1.83                               | 0.98                            | 0.86                            | 28.96      |
| 3285 | 6           | -10         | 0          | 31.3                         | 22.4                                   | 1.0                                 | 31.0                                   | 1.0                                 | 1.84                               | 0.85                            | 0.98                            | 29.92      |
| 3289 | 6           | -10         | 5          | 32.2                         | 23.0                                   | 1.0                                 | 31.4                                   | 1.0                                 | 1.88                               | 0.88                            | 1.00                            | 30.59      |
| 3294 | 6           | -10         | 10         | 34.0                         | 25.0                                   | 1.0                                 | 32.7                                   | 1.0                                 | 1.98                               | 0.93                            | 1.05                            | 32.21      |
| 3298 | 6           | -10         | 15         | 36.0                         | 27.5                                   | 1.0                                 | 34.7                                   | 1.0                                 | 2.11                               | 1.00                            | 1.11                            | 34.68      |
| 2659 | 6           | 0           | -15        | 30.7                         | 26.4                                   | 1.0                                 | 26.4                                   | 1.0                                 | 1.81                               | 0.90                            | 0.90                            | 30.81      |
| 2655 | 6           | 0           | -10        | 30.4                         | 26.0                                   | 1.0                                 | 26.0                                   | 1.0                                 | 1.79                               | 0.89                            | 0.89                            | 30.14      |
| 2651 | 6           | 0           | -5         | 29.7                         | 25.1                                   | 1.0                                 | 25.0                                   | 1.0                                 | 1.74                               | 0.87                            | 0.87                            | 29.66      |
| 2616 | 6           | 0           | 0          | 30.0                         | 26.0                                   | 1.0                                 | 25.8                                   | 1.0                                 | 1.77                               | 0.89                            | 0.88                            | 29.85      |
| 2621 | 6           | 0           | 5          | 30.6                         | 26.0                                   | 1.0                                 | 26.0                                   | 1.0                                 | 1.79                               | 0.90                            | 0.90                            | 30.23      |
| 2643 | 6           | 0           | 10         | 31.0                         | 26.9                                   | 1.0                                 | 26.9                                   | 1.0                                 | 1.83                               | 0.92                            | 0.92                            | 31.47      |
| 2647 | 6           | 0           | 15         | 32.5                         | 28.0                                   | 1.0                                 | 28.0                                   | 1.0                                 | 1.91                               | 0.96                            | 0.96                            | 32.81      |
| 2689 | 6           | 10          | -15        | 31.8                         | 31.1                                   | 1.0                                 | 22.5                                   | 1.0                                 | 1.85                               | 0.99                            | 0.86                            | 30.87      |
| 2684 | 6           | 10          | -10        | 30.3                         | 30.0                                   | 1.0                                 | 21.5                                   | 1.0                                 | 1.78                               | 0.95                            | 0.82                            | 29.54      |
| 2680 | 6           | 10          | -5         | 30.0                         | 30.0                                   | 1.0                                 | 21.5                                   | 1.0                                 | 1.77                               | 0.95                            | 0.82                            | 28.87      |
| 2664 | 6           | 10          | 0          | 30.0                         | 30.0                                   | 1.0                                 | 21.5                                   | 1.0                                 | 1.77                               | 0.95                            | 0.82                            | 28.87      |
| 2668 | 6           | 10          | 5          | 29.6                         | 29.0                                   | 1.0                                 | 21.0                                   | 1.0                                 | 1.73                               | 0.93                            | 0.80                            | 28.58      |
| 2672 | 6           | 10          | 10         | 30.0                         | 29.8                                   | 1.0                                 | 21.5                                   | 1.0                                 | 1.76                               | 0.95                            | 0.82                            | 28.58      |
| 2676 | 6           | 10          | 15         | 29.3                         | 29.0                                   | 1.0                                 | 21.0                                   | 1.0                                 | 1.72                               | 0.92                            | 0.80                            | 28.29      |
| 2702 | 6           | 20          | -15        | 32.0                         | 34.0                                   | 1.0                                 | 9.0                                    | 1.0                                 | 1.69                               | 1.04                            | 0.65                            | 31.58      |
| 2696 | 6           | 20          | -10        | 30.5                         | 32.9                                   | 1.0                                 | 9.0                                    | 1.0                                 | 1.63                               | 1.00                            | 0.63                            | 28.42      |
| 2697 | 6           | 20          | -10        | 30.7                         | 32.9                                   | 1.0                                 | 9.0                                    | 1.0                                 | 1.63                               | 1.00                            | 0.63                            | 28.71      |
| 2706 | 6           | 20          | -5         | 29.7                         | 32.5                                   | 1.0                                 | 10.0                                   | 1.0                                 | 1.61                               | 0.98                            | 0.63                            | 29.09      |
| 2710 | 6           | 20          | 0          | 29.5                         | 32.2                                   | 1.0                                 | 17.0                                   | 1.0                                 | 1.71                               | 0.98                            | 0.74                            | 28.33      |
| 2714 | 6           | 20          | 5          | 28.9                         | 32.0                                   | 1.0                                 | 17.5                                   | 1.0                                 | 1.70                               | 0.96                            | 0.74                            | 27.47      |
| 2718 | 6           | 20          | 10         | 28.5                         | 31.9                                   | 1.0                                 | 16.0                                   | 1.0                                 | 1.66                               | 0.96                            | 0.71                            | 26.89      |
| 2739 | 6           | 20          | 15         | 27.0                         | 30.3                                   | 1.0                                 | 17.0                                   | 1.0                                 | 1.61                               | 0.91                            | 0.70                            | 24.50      |

\* Indicates model was close to heave stop

TABLE 4.123.1 - WETTED AREA DATA  
 10 deg Deadrise, L/R = 0.234, Cv = 3

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Wetted Lengths   |                            |                         |                            |                         | Wetted Areas                       |                                 |                                 | SKWL<br>in |
|--------|-------------|-------------|------------|------------------|----------------------------|-------------------------|----------------------------|-------------------------|------------------------------------|---------------------------------|---------------------------------|------------|
|        |             |             |            | Keel<br>Lk<br>in | Stbd<br>Chine<br>Lca<br>in | Stbd<br>Beam<br>Ba<br>: | Port<br>Chine<br>Lcp<br>in | Port<br>Beam<br>Bp<br>: | Total<br>A <sub>tot</sub><br>sq.ft | Stbd<br>A <sub>s</sub><br>sq.ft | Port<br>A <sub>p</sub><br>sq.ft |            |
| 2473   | 0           | -10         | -15        | 44.2             | 39.0                       | 1.0                     | 43.0                       | 1.0                     | 2.58                               | 1.27                            | 1.31                            | 44.01      |
| 2484   | 0           | -10         | -10        |                  |                            |                         |                            |                         |                                    |                                 |                                 | 45.01      |
| 2470   | 0           | -10         | -10        | 44.9             | 41.3                       | 1.0                     | 44.0                       | 1.0                     | 2.62                               | 1.30                            | 1.32                            | 44.97      |
| 2480   | 0           | -10         | -5         | 45.0             | 42.0                       | 1.0                     | 44.2                       | 1.0                     | 2.63                               | 1.31                            | 1.32                            | 45.07      |
| 2429   | 0           | -10         | 0          | 44.5             | 40.0                       | 1.0                     | 43.5                       | 1.0                     | 2.60                               | 1.28                            | 1.31                            | 44.43      |
| 2433   | 0           | -10         | 5          | 46.0             | 44.5                       | 1.0                     | 45.5                       | 1.0                     | 2.67                               | 1.33                            | 1.34                            | 45.36      |
| 2437 * | 0           | -10         | 10         | 47.0             | 40.0                       | 1.0                     | 47.0                       | 1.0                     | 2.66                               | 1.31                            | 1.34                            | 46.13      |
| 2457 * | 0           | -10         | 15         | 47.0             | 47.0                       | 1.0                     | 47.0                       | 1.0                     | 2.68                               | 1.34                            | 1.34                            | 46.27      |
| 2350 * | 0           | 0           | -15        | 47.0             | 47.0                       | 1.0                     | 47.0                       | 1.0                     | 2.68                               | 1.34                            | 1.34                            | 46.00      |
| 2346   | 0           | 0           | -10        | 46.0             | 45.5                       | 1.0                     | 45.5                       | 1.0                     | 2.67                               | 1.34                            | 1.34                            | 45.41      |
| 2342   | 0           | 0           | -5         |                  |                            |                         |                            |                         |                                    |                                 |                                 | 44.98      |
| 2319   | 0           | 0           | 0          | 44.8             | 43.0                       | 1.0                     | 42.5                       | 1.0                     | 2.62                               | 1.31                            | 1.31                            | 44.80      |
| 2320   | 0           | 0           | 0          | 44.8             | 42.7                       | 1.0                     | 42.7                       | 1.0                     | 2.62                               | 1.31                            | 1.31                            | 44.77      |
| 2331   | 0           | 0           | 5          | 45.5             | 44.5                       | 1.0                     | 44.5                       | 1.0                     | 2.65                               | 1.33                            | 1.33                            | 45.16      |
| 2332   | 0           | 0           | 5          | 45.5             | 44.5                       | 1.0                     | 44.5                       | 1.0                     | 2.65                               | 1.33                            | 1.33                            | 45.16      |
| 2337 * | 0           | 0           | 10         | 45.6             | 44.5                       | 1.0                     | 44.5                       | 1.0                     | 2.66                               | 1.33                            | 1.33                            | 46.11      |
| 2338 * | 0           | 0           | 10         | 47.0             | 47.0                       | 1.0                     | 47.0                       | 1.0                     | 2.68                               | 1.34                            | 1.34                            | 46.11      |
| 2397 * | 0           | 10          | -10        | 47.0             | 47.0                       | 1.0                     | 47.0                       | 1.0                     | 2.68                               | 1.34                            | 1.34                            | 45.99      |
| 2392   | 0           | 10          | -5         | 46.0             | 44.7                       | 1.0                     | 42.0                       | 1.0                     | 2.65                               | 1.33                            | 1.32                            | 45.08      |
| 2375   | 0           | 10          | 0          | 44.7             | 44.0                       | 1.0                     | 39.5                       | 1.0                     | 2.60                               | 1.32                            | 1.28                            | 44.55      |
| 2380   | 0           | 10          | 5          | 44.8             | 43.7                       | 1.0                     | 40.0                       | 1.0                     | 2.60                               | 1.32                            | 1.29                            | 44.74      |
| 2384   | 0           | 10          | 10         | 44.8             | 44.0                       | 1.0                     | 41.0                       | 1.0                     | 2.61                               | 1.32                            | 1.30                            | 44.74      |
| 2388   | 0           | 10          | 15         | 43.4             | 42.0                       | 1.0                     | 39.0                       | 1.0                     | 2.55                               | 1.29                            | 1.26                            | 43.01      |
| 2421 * | 0           | 20          | -10        | 47.0             | 47.0                       | 1.0                     | 46.0                       | 1.0                     | 2.68                               | 1.34                            | 1.34                            | 45.88      |
| 2417   | 0           | 20          | -5         | 45.2             | 45.2                       | 1.0                     | 36.0                       | 1.0                     | 2.58                               | 1.33                            | 1.25                            | 44.91      |
| 2401   | 0           | 20          | 0          | 44.5             | 44.5                       | 1.0                     | 30.0                       | 1.0                     | 2.49                               | 1.32                            | 1.17                            | 43.91      |
| 2405   | 0           | 20          | 5          | 44.0             | 43.8                       | 1.0                     | 15.0                       | 1.0                     | 2.25                               | 1.31                            | 0.94                            | 42.99      |
| 2409   | 0           | 20          | 10         | 42.5             | 42.2                       | 1.0                     | 0.0                        | 1.0                     | 1.96                               | 1.28                            | 0.67                            | 41.08      |
| 2413   | 0           | 20          | 15         | 40.0             | 40.0                       | 1.0                     | 0.0                        | 0.6                     | 1.61                               | 1.23                            | 0.38                            | 37.08      |
| 2601   | 3           | -10         | -15        | 27.2             | 13.0                       | 1.0                     | 26.7                       | 1.0                     | 1.49                               | 0.64                            | 0.85                            | 27.65      |
| 2597   | 3           | -10         | -10        | 32.2             | 18.5                       | 1.0                     | 31.0                       | 1.0                     | 1.80                               | 0.80                            | 1.00                            | 33.35      |
| 2592   | 3           | -10         | -5         | 35.7             | 23.0                       | 1.0                     | 33.4                       | 1.0                     | 2.02                               | 0.93                            | 1.08                            | 36.24      |
| 2587   | 3           | -10         | 0          | 36.9             | 24.0                       | 1.0                     | 34.9                       | 1.0                     | 2.09                               | 0.97                            | 1.12                            | 37.05      |
| 2605   | 3           | -10         | 5          | 38.8             | 28.0                       | 1.0                     | 36.8                       | 1.0                     | 2.23                               | 1.05                            | 1.17                            | 38.70      |
| 2609   | 3           | -10         | 10         | 41.2             | 34.0                       | 1.0                     | 39.7                       | 1.0                     | 2.41                               | 1.17                            | 1.24                            | 40.96      |
| 2613 * | 3           | -10         | 15         | 45.0             | 42.6                       | 1.0                     | 44.1                       | 1.0                     | 2.63                               | 1.31                            | 1.32                            | 44.92      |
| 2503   | 3           | 0           | -15        | 37.2             | 31.0                       | 1.0                     | 30.0                       | 1.0                     | 2.13                               | 1.07                            | 1.06                            | 37.51      |
| 2499   | 3           | 0           | -10        | 36.2             | 30.0                       | 1.0                     | 29.0                       | 1.0                     | 2.07                               | 1.04                            | 1.03                            | 37.12      |
| 2495   | 3           | 0           | -5         | 36.0             | 29.3                       | 1.0                     | 28.0                       | 1.0                     | 2.04                               | 1.03                            | 1.01                            | 36.92      |
| 2479   | 3           | 0           | 0          | 36.0             | 28.5                       | 1.0                     | 28.0                       | 1.0                     | 2.03                               | 1.02                            | 1.01                            | 36.77      |
| 2483   | 3           | 0           | 5          | 36.2             | 29.0                       | 1.0                     | 28.0                       | 1.0                     | 2.04                               | 1.03                            | 1.01                            | 36.77      |
| 2487   | 3           | 0           | 10         | 36.9             | 30.0                       | 1.0                     | 29.5                       | 1.0                     | 2.10                               | 1.05                            | 1.05                            | 37.51      |
| 2491   | 3           | 0           | 15         | 38.0             | 33.2                       | 1.0                     | 33.0                       | 1.0                     | 2.23                               | 1.12                            | 1.11                            | 39.00      |

\* Indicates model was close to heave stop

TABLE 4.123.2 - WETTED AREA DATA  
 10 deg Deadrise, L/R = 0.234, CV = 3

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Wetted Lengths   |                            |                         |                            |                         | Wetted Areas           |                     |                     | SKWL<br>in |
|------|-------------|-------------|------------|------------------|----------------------------|-------------------------|----------------------------|-------------------------|------------------------|---------------------|---------------------|------------|
|      |             |             |            | Keel<br>Lk<br>in | Stbd<br>Chine<br>Lcs<br>in | Stbd<br>Beam<br>Bs<br>: | Port<br>Chine<br>Lcp<br>in | Port<br>Beam<br>Bp<br>: | Total<br>Atot<br>sq.ft | Stbd<br>As<br>sq.ft | Port<br>Ap<br>sq.ft |            |
| 2537 | 3           | 10          | -15        | 42.4             | 41.0                       | 1.0                     | 36.0                       | 1.0                     | 2.48                   | 1.27                | 1.21                | 41.70      |
| 2521 | 3           | 10          | -10        | 39.0             | 37.0                       | 1.0                     | 27.0                       | 1.0                     | 2.22                   | 1.18                | 1.04                | 38.81      |
| 2517 | 3           | 10          | -5         | 36.7             | 34.6                       | 1.0                     | 22.0                       | 1.0                     | 2.05                   | 1.12                | 0.93                | 36.91      |
| 2509 | 3           | 10          | 0          | 34.5             | 32.8                       | 1.0                     | 20.0                       | 1.0                     | 1.92                   | 1.06                | 0.86                | 35.19      |
| 2513 | 3           | 10          | 5          | 30.6             | 29.8                       | 1.0                     | 14.7                       | 1.0                     | 1.67                   | 0.95                | 0.72                | 30.90      |
| 2542 | 3           | 10          | 10         | 24.0             | 24.3                       | 1.0                     | 9.0                        | 1.0                     | 1.29                   | 0.77                | 0.52                | 25.93      |
| 2547 | 3           | 10          | 15         | 19.0             | 20.0                       | 1.0                     | 2.0                        | 1.0                     | 0.95                   | 0.62                | 0.33                | 20.77      |
| 2580 | 3           | 20          | -15        | 43.7             | 43.2                       | 1.0                     | 33.0                       | 1.0                     | 2.50                   | 1.30                | 1.20                | 42.62      |
| 2576 | 3           | 20          | -10        | 39.2             | 39.3                       | 1.0                     | 12.0                       | 1.0                     | 2.02                   | 1.21                | 0.81                | 38.47      |
| 2572 | 3           | 20          | -5         | 36.0             | 37.2                       | 1.0                     | 9.0                        | 1.0                     | 1.86                   | 1.14                | 0.71                | 35.44      |
| 2568 | 3           | 20          | 0          | 33.0             | 35.6                       | 1.0                     | 9.0                        | 1.0                     | 1.74                   | 1.08                | 0.67                | 30.57      |
| 2563 | 3           | 20          | 5          |                  |                            |                         |                            |                         |                        |                     |                     | 22.93      |
| 2564 | 3           | 20          | 5          | 26.0             | 32.0                       | 1.0                     | 3.0                        | 1.0                     | 1.38                   | 0.92                | 0.46                | 22.93      |
| 2559 | 3           | 20          | 10         | 18.0             | 27.3                       | 1.0                     | 0.0                        | 0.7                     | 0.92                   | 0.72                | 0.20                | 15.10      |
| 2554 | 3           | 20          | 15         | 12.0             | 21.3                       | 1.0                     | 0.0                        | 0.5                     | 0.62                   | 0.53                | 0.10                | 8.79       |
| 3311 | 6           | -10         | -15        | 14.0             | 5.0                        | 1.0                     | 13.6                       | 1.0                     | 0.74                   | 0.30                | 0.44                | 12.22      |
| 3307 | 6           | -10         | -10        | 17.1             | 8.0                        | 1.0                     | 17.0                       | 1.0                     | 0.94                   | 0.40                | 0.54                | 14.61      |
| 3303 | 6           | -10         | -5         | 19.0             | 10.0                       | 1.0                     | 18.8                       | 1.0                     | 1.06                   | 0.46                | 0.60                | 17.39      |
| 3286 | 6           | -10         | 0          | 22.0             | 13.0                       | 1.0                     | 21.5                       | 1.0                     | 1.25                   | 0.56                | 0.69                | 20.54      |
| 3291 | 6           | -10         | 5          | 25.0             | 15.0                       | 1.0                     | 24.3                       | 1.0                     | 1.42                   | 0.63                | 0.78                | 22.46      |
| 3295 | 6           | -10         | 10         | 28.2             | 18.0                       | 1.0                     | 27.8                       | 1.0                     | 1.62                   | 0.73                | 0.89                | 26.09      |
| 3299 | 6           | -10         | 15         | 34.0             | 25.0                       | 1.0                     | 33.0                       | 1.0                     | 1.99                   | 0.93                | 1.05                | 32.88      |
| 2660 | 6           | 0           | -15        | 16.7             | 12.3                       | 1.0                     | 12.0                       | 1.0                     | 0.92                   | 0.46                | 0.46                | 17.22      |
| 2656 | 6           | 0           | -10        | 16.2             | 11.6                       | 1.0                     | 11.6                       | 1.0                     | 0.88                   | 0.44                | 0.44                | 16.36      |
| 2652 | 6           | 0           | -5         | 15.6             | 11.0                       | 1.0                     | 10.8                       | 1.0                     | 0.84                   | 0.42                | 0.42                | 16.26      |
| 2617 | 6           | 0           | 0          | 17.0             | 12.5                       | 1.0                     | 11.9                       | 1.0                     | 0.93                   | 0.47                | 0.46                | 17.22      |
| 2618 | 6           | 0           | 0          | 16.0             | 11.8                       | 1.0                     | 11.5                       | 1.0                     | 0.88                   | 0.44                | 0.44                | 16.45      |
| 2622 | 6           | 0           | 5          | 16.0             | 11.7                       | 1.0                     | 11.5                       | 1.0                     | 0.88                   | 0.44                | 0.44                | 16.36      |
| 2644 | 6           | 0           | 10         | 15.3             | 11.0                       | 1.0                     | 11.0                       | 1.0                     | 0.83                   | 0.42                | 0.42                | 16.93      |
| 2648 | 6           | 0           | 15         | 17.2             | 17.9                       | 1.0                     | 17.0                       | 1.0                     | 1.10                   | 0.56                | 0.54                | 17.70      |
| 2690 | 6           | 10          | -15        | 23.0             | 23.0                       | 1.0                     | 14.1                       | 1.0                     | 1.32                   | 0.73                | 0.59                | 22.17      |
| 2685 | 6           | 10          | -10        | 20.0             | 20.0                       | 1.0                     | 11.0                       | 1.0                     | 1.13                   | 0.63                | 0.49                | 19.68      |
| 2681 | 6           | 10          | -5         | 17.5             | 17.1                       | 1.0                     | 9.0                        | 1.0                     | 0.97                   | 0.55                | 0.42                | 17.86      |
| 2665 | 6           | 10          | 0          | 15.0             | 14.2                       | 1.0                     | 6.5                        | 1.0                     | 0.80                   | 0.46                | 0.34                | 14.52      |
| 2669 | 6           | 10          | 5          | 13.0             | 12.7                       | 1.0                     | 3.8                        | 1.0                     | 0.67                   | 0.41                | 0.27                | 12.12      |
| 2673 | 6           | 10          | 10         | 10.5             | 10.5                       | 1.0                     | 0.0                        | 1.0                     | 0.50                   | 0.33                | 0.17                | 10.31      |
| 2677 | 6           | 10          | 15         | 10.0             | 10.0                       | 1.0                     | 0.0                        | 0.9                     | 0.46                   | 0.32                | 0.14                | 9.83       |
| 2703 | 6           | 20          | -15        | 29.6             | 32.5                       | 1.0                     | 12.5                       | 1.0                     | 1.65                   | 0.98                | 0.67                | 29.19      |
| 2698 | 6           | 20          | -10        | 24.2             | 28.5                       | 1.0                     | 10.0                       | 1.0                     | 1.38                   | 0.84                | 0.54                | 22.21      |
| 2707 | 6           | 20          | -5         | 20.9             | 25.4                       | 1.0                     | 7.5                        | 1.0                     | 1.19                   | 0.73                | 0.45                | 20.20      |
| 2711 | 6           | 20          | 0          | 17.0             | 22.0                       | 1.0                     | 3.5                        | 1.0                     | 0.94                   | 0.62                | 0.33                | 15.99      |
| 2715 | 6           | 20          | 5          | 12.0             | 17.0                       | 1.0                     | 0.0                        | 0.8                     | 0.61                   | 0.46                | 0.15                | 11.11      |
| 2719 | 6           | 20          | 10         | 8.5              | 13.1                       | 1.0                     | 0.0                        | 0.5                     | 0.41                   | 0.34                | 0.07                | 7.95       |
| 2740 | 6           | 20          | 15         | 7.0              | 11.7                       | 1.0                     | 0.0                        | 0.5                     | 0.35                   | 0.30                | 0.06                | 5.46       |

\* Indicates model was close to heave stop

TABLE 4.124.1 - WETTED AREA DATA  
 10 deg Deadrise, L/R = 0.234, Cv = 4

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Wetted Lengths   |                            |                         |                            |                         | Wetted Areas           |                     |                     | SKWL<br>in |
|--------|-------------|-------------|------------|------------------|----------------------------|-------------------------|----------------------------|-------------------------|------------------------|---------------------|---------------------|------------|
|        |             |             |            | Keel<br>Lk<br>in | Stbd<br>Chine<br>Lcs<br>in | Stbd<br>Beam<br>Bs<br>: | Port<br>Chine<br>Lcp<br>in | Port<br>Beam<br>Bp<br>: | Total<br>Atot<br>sq.ft | Stbd<br>As<br>sq.ft | Port<br>Ap<br>sq.ft |            |
| 2474   | 0           | -10         | -15        | 42.2             | 32.0                       | 1.0                     | 40.4                       | 1.0                     | 2.42                   | 1.16                | 1.26                | 42.33      |
| 2468   | 0           | -10         | -10        |                  |                            |                         |                            |                         |                        |                     |                     | 44.81      |
| 2469   | 0           | -10         | -10        | 44.5             | 40.0                       | 1.0                     | 43.3                       | 1.0                     | 2.59                   | 1.28                | 1.31                | 44.88      |
| 2461   | 0           | -10         | -5         | 44.8             | 41.0                       | 1.0                     | 44.0                       | 1.0                     | 2.61                   | 1.30                | 1.32                | 45.06      |
| 2430   | 0           | -10         | 0          | 44.6             | 41.0                       | 1.0                     | 43.5                       | 1.0                     | 2.61                   | 1.29                | 1.31                | 44.59      |
| 2434   | 0           | -10         | 5          | 46.3             | 40.0                       | 1.0                     | 46.3                       | 1.0                     | 2.64                   | 1.31                | 1.34                | 45.75      |
| 2352   | 0           | 0           | -15        | 47.0             | 47.0                       | 1.0                     | 47.0                       | 1.0                     | 2.68                   | 1.34                | 1.34                | 45.97      |
| 2347   | 0           | 0           | -10        | 46.0             | 45.0                       | 1.0                     | 45.0                       | 1.0                     | 2.67                   | 1.33                | 1.33                | 45.31      |
| 2343   | 0           | 0           | -5         | 45.0             | 43.5                       | 1.0                     | 43.5                       | 1.0                     | 2.63                   | 1.32                | 1.32                | 45.01      |
| 2322   | 0           | 0           | 0          | 44.5             | 43.0                       | 1.0                     | 42.5                       | 1.0                     | 2.61                   | 1.31                | 1.30                | 44.84      |
| 2323   | 0           | 0           | 0          | 44.5             | 43.0                       | 1.0                     | 42.2                       | 1.0                     | 2.61                   | 1.31                | 1.30                | 44.84      |
| 2324   | 0           | 0           | 0          | 44.5             | 42.5                       | 1.0                     | 42.0                       | 1.0                     | 2.61                   | 1.30                | 1.30                | 44.66      |
| 2326   | 0           | 0           | 0          |                  |                            |                         |                            |                         |                        |                     |                     | 44.80      |
| 2327   | 0           | 0           | 0          |                  |                            |                         |                            |                         |                        |                     |                     | 44.84      |
| 2328   | 0           | 0           | 0          |                  |                            |                         |                            |                         |                        |                     |                     | 44.58      |
| 2333   | 0           | 0           | 5          | 47.0             | 45.0                       | 1.0                     | 45.0                       | 1.0                     | 2.68                   | 1.34                | 1.34                | 45.16      |
| 2339 * | 0           | 0           | 10         | 47.0             | 47.0                       | 1.0                     | 47.0                       | 1.0                     | 2.68                   | 1.34                | 1.34                | 46.09      |
| 2394   | 0           | 10          | -5         | 45.5             | 45.0                       | 1.0                     | 43.0                       | 1.0                     | 2.65                   | 1.33                | 1.32                | 45.21      |
| 2376   | 0           | 10          | 0          | 45.0             | 44.0                       | 1.0                     | 40.0                       | 1.0                     | 2.61                   | 1.32                | 1.29                | 44.66      |
| 2377   | 0           | 10          | 0          | 45.0             | 44.0                       | 1.0                     | 40.0                       | 1.0                     | 2.61                   | 1.32                | 1.29                | 44.70      |
| 2381   | 0           | 10          | 5          | 45.0             | 44.0                       | 1.0                     | 39.0                       | 1.0                     | 2.60                   | 1.32                | 1.28                | 44.66      |
| 2385   | 0           | 10          | 10         | 43.3             | 42.0                       | 1.0                     | 32.0                       | 1.0                     | 2.47                   | 1.29                | 1.18                | 42.96      |
| 2389   | 0           | 10          | 15         | 41.3             | 39.0                       | 1.0                     | 15.0                       | 1.0                     | 2.13                   | 1.23                | 0.89                | 40.69      |
| 2418   | 0           | 20          | -5         | 46.0             | 47.0                       | 1.0                     | 40.0                       | 1.0                     | 2.64                   | 1.34                | 1.30                | 45.33      |
| 2402   | 0           | 20          | 0          | 44.5             | 44.2                       | 1.0                     | 29.0                       | 1.0                     | 2.47                   | 1.32                | 1.16                | 44.03      |
| 2406   | 0           | 20          | 5          | 43.4             | 43.0                       | 1.0                     | 10.0                       | 1.0                     | 2.15                   | 1.30                | 0.85                | 42.52      |
| 2410   | 0           | 20          | 10         | 40.0             | 40.0                       | 1.0                     | 0.0                        | 0.6                     | 1.61                   | 1.23                | 0.38                | 38.06      |
| 2414   | 0           | 20          | 15         | 28.0             | 35.4                       | 1.0                     | 0.0                        | 0.2                     | 1.09                   | 1.00                | 0.09                | 0.00       |
| 2602   | 3           | -10         | -15        | 21.0             | 7.5                        | 1.0                     | 20.2                       | 1.0                     | 1.11                   | 0.45                | 0.65                | 21.92      |
| 2598   | 3           | -10         | -10        | 27.5             | 10.5                       | 1.0                     | 26.9                       | 1.0                     | 1.47                   | 0.60                | 0.86                | 27.46      |
| 2593   | 3           | -10         | -5         | 33.1             | 19.0                       | 1.0                     | 31.2                       | 1.0                     | 1.84                   | 0.83                | 1.01                | 34.33      |
| 2588   | 3           | -10         | 0          | 35.6             | 22.0                       | 1.0                     | 33.3                       | 1.0                     | 2.00                   | 0.91                | 1.08                | 36.08      |
| 2606   | 3           | -10         | 5          | 38.0             | 25.0                       | 1.0                     | 36.0                       | 1.0                     | 2.15                   | 1.00                | 1.15                | 38.13      |
| 2610   | 3           | -10         | 10         | 41.3             | 34.0                       | 1.0                     | 39.7                       | 1.0                     | 2.42                   | 1.17                | 1.24                | 40.78      |
| 2504   | 3           | 0           | -15        | 35.0             | 28.2                       | 1.0                     | 27.2                       | 1.0                     | 1.98                   | 1.00                | 0.98                | 36.25      |
| 2500   | 3           | 0           | -10        | 34.3             | 27.0                       | 1.0                     | 25.9                       | 1.0                     | 1.92                   | 0.97                | 0.95                | 35.67      |
| 2496   | 3           | 0           | -5         | 35.0             | 27.0                       | 1.0                     | 26.0                       | 1.0                     | 1.95                   | 0.98                | 0.97                | 35.85      |
| 2480   | 3           | 0           | 0          | 33.4             | 26.0                       | 1.0                     | 25.0                       | 1.0                     | 1.87                   | 0.94                | 0.93                | 35.59      |
| 2484   | 3           | 0           | 5          | 32.8             | 24.5                       | 1.0                     | 24.0                       | 1.0                     | 1.81                   | 0.91                | 0.90                | 34.70      |
| 2488   | 3           | 0           | 10         | 34.5             | 26.3                       | 1.0                     | 25.2                       | 1.0                     | 1.91                   | 0.96                | 0.95                | 35.40      |
| 2492   | 3           | 0           | 15         | 35.4             | 28.3                       | 1.0                     | 28.0                       | 1.0                     | 2.01                   | 1.01                | 1.00                | 36.63      |

\* Indicates model was close to heave stop

TABLE 4.124.2 - WETTED AREA DATA  
 10 deg Deadrise, L/R = 0.234, Cv = 4

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Wetted Lengths   |                            |                         |                            |                         | Wetted Areas           |                     |                     | SKWL<br>in |
|------|-------------|-------------|------------|------------------|----------------------------|-------------------------|----------------------------|-------------------------|------------------------|---------------------|---------------------|------------|
|      |             |             |            | Keel<br>Lk<br>in | Stbd<br>Chine<br>Lcs<br>in | Stbd<br>Beam<br>Bs<br>: | Port<br>Chine<br>Lcp<br>in | Port<br>Beam<br>Bp<br>: | Total<br>Atot<br>sq.ft | Stbd<br>As<br>sq.ft | Port<br>Ap<br>sq.ft |            |
| 2538 | 3           | 10          | -15        | 42.0             | 41.0                       | 1.0                     | 34.3                       | 1.0                     | 2.45                   | 1.26                | 1.19                | 41.78      |
| 2522 | 3           | 10          | -10        | 39.0             | 37.0                       | 1.0                     | 27.0                       | 1.0                     | 2.22                   | 1.18                | 1.04                | 38.97      |
| 2518 | 3           | 10          | -5         | 35.5             | 34.0                       | 1.0                     | 20.0                       | 1.0                     | 1.97                   | 1.09                | 0.88                | 36.16      |
| 2510 | 3           | 10          | 0          | 30.0             | 29.8                       | 1.0                     | 14.0                       | 1.0                     | 1.64                   | 0.95                | 0.70                | 30.52      |
| 2514 | 3           | 10          | 5          | 22.0             | 22.4                       | 1.0                     | 5.0                        | 1.0                     | 1.13                   | 0.70                | 0.43                | 22.68      |
| 2543 | 3           | 10          | 10         | 18.0             | 18.0                       | 1.0                     | 1.0                        | 1.0                     | 0.87                   | 0.57                | 0.30                | 19.62      |
| 2544 | 3           | 10          | 10         | 17.3             | 17.5                       | 1.0                     | 0.0                        | 1.0                     | 0.83                   | 0.55                | 0.27                | 19.24      |
| 2548 | 3           | 10          | 15         | 14.0             | 15.5                       | 1.0                     | 0.0                        | 0.8                     | 0.65                   | 0.47                | 0.18                | 17.33      |
| 2549 | 3           | 10          | 15         | 15.0             | 15.0                       | 1.0                     | 0.0                        | 0.7                     | 0.64                   | 0.48                | 0.17                | 17.33      |
| 2577 | 3           | 20          | -10        | 39.0             | 39.2                       | 1.0                     | 13.0                       | 1.0                     | 2.03                   | 1.21                | 0.83                | 38.47      |
| 2573 | 3           | 20          | -5         | 35.3             | 37.0                       | 1.0                     | 12.0                       | 1.0                     | 1.88                   | 1.13                | 0.75                | 34.62      |
| 2569 | 3           | 20          | 0          | 28.5             | 33.5                       | 1.0                     | 4.0                        | 1.0                     | 1.50                   | 0.98                | 0.52                | 26.75      |
| 2565 | 3           | 20          | 5          | 16.0             | 25.4                       | 1.0                     | 0.0                        | 0.6                     | 0.81                   | 0.66                | 0.15                | 13.76      |
| 2560 | 3           | 20          | 10         | 16.0             | 20.0                       | 1.0                     | 0.0                        | 0.4                     | 0.67                   | 0.57                | 0.10                | 7.64       |
| 2555 | 3           | 20          | 15         | 6.0              | 14.4                       | 1.0                     | 0.0                        | 0.2                     | 0.34                   | 0.32                | 0.02                | 3.44       |
| 3312 | 6           | -10         | -15        | 10.3             | 1.5                        | 1.0                     | 9.8                        | 1.0                     | 0.51                   | 0.19                | 0.32                | 8.97       |
| 3308 | 6           | -10         | -10        | 11.0             | 2.5                        | 1.0                     | 10.0                       | 1.0                     | 0.55                   | 0.21                | 0.33                | 10.02      |
| 3304 | 6           | -10         | -5         | 13.8             | 5.0                        | 1.0                     | 13.1                       | 1.0                     | 0.73                   | 0.30                | 0.43                | 12.41      |
| 3287 | 6           | -10         | 0          | 18.3             | 9.6                        | 1.0                     | 17.8                       | 1.0                     | 1.02                   | 0.44                | 0.57                | 17.39      |
| 3292 | 6           | -10         | 5          | 20.0             | 11.8                       | 1.0                     | 19.8                       | 1.0                     | 1.14                   | 0.50                | 0.63                | 18.63      |
| 3296 | 6           | -10         | 10         | 23.0             | 14.5                       | 1.0                     | 22.9                       | 1.0                     | 1.32                   | 0.60                | 0.73                | 21.98      |
| 2661 | 6           | 0           | -15        | 10.9             | 6.0                        | 1.0                     | 6.0                        | 1.0                     | 0.54                   | 0.27                | 0.27                | 11.58      |
| 2657 | 6           | 0           | -10        | 11.0             | 7.0                        | 1.0                     | 6.5                        | 1.0                     | 0.56                   | 0.29                | 0.28                | 12.25      |
| 2653 | 6           | 0           | -5         | 11.0             | 6.3                        | 1.0                     | 5.8                        | 1.0                     | 0.54                   | 0.27                | 0.27                | 11.48      |
| 2619 | 6           | 0           | 0          | 11.0             | 6.5                        | 1.0                     | 6.0                        | 1.0                     | 0.55                   | 0.28                | 0.27                | 11.67      |
| 2623 | 6           | 0           | 5          | 11.0             | 7.0                        | 1.0                     | 6.0                        | 1.0                     | 0.56                   | 0.29                | 0.27                | 11.96      |
| 2645 | 6           | 0           | 10         | 11.2             | 7.0                        | 1.0                     | 6.0                        | 1.0                     | 0.56                   | 0.29                | 0.27                | 12.82      |
| 2649 | 6           | 0           | 15         | 11.3             | 7.0                        | 1.0                     | 6.0                        | 1.0                     | 0.56                   | 0.29                | 0.27                | 12.92      |
| 2691 | 6           | 10          | -15        | 19.7             | 19.7                       | 1.0                     | 10.8                       | 1.0                     | 1.11                   | 0.63                | 0.48                | 19.01      |
| 2743 | 6           | 10          | -15        | 19.2             | 19.2                       | 1.0                     | 10.0                       | 1.0                     | 1.07                   | 0.61                | 0.46                | 19.30      |
| 2686 | 6           | 10          | -10        | 15.2             | 15.2                       | 1.0                     | 7.0                        | 1.0                     | 0.83                   | 0.48                | 0.35                | 15.28      |
| 2687 | 6           | 10          | -10        | 16.0             | 16.0                       | 1.0                     | 7.0                        | 1.0                     | 0.87                   | 0.51                | 0.36                | 15.57      |
| 2682 | 6           | 10          | -5         | 7.0              | 7.0                        | 1.0                     | 3.6                        | 1.0                     | 0.39                   | 0.22                | 0.17                | 11.84      |
| 2666 | 6           | 10          | 0          | 10.0             | 10.0                       | 1.0                     | 0.0                        | 1.0                     | 0.48                   | 0.32                | 0.16                | 9.83       |
| 2670 | 6           | 10          | 5          | 8.0              | 8.1                        | 1.0                     | 0.0                        | 0.8                     | 0.36                   | 0.26                | 0.10                | 8.78       |
| 2674 | 6           | 10          | 10         | 7.5              | 7.8                        | 1.0                     | 0.0                        | 0.8                     | 0.34                   | 0.24                | 0.10                | 8.39       |
| 2678 | 6           | 10          | 15         | 7.0              | 7.0                        | 1.0                     | 0.0                        | 0.7                     | 0.30                   | 0.22                | 0.08                | 7.82       |
| 2704 | 6           | 20          | -15        | 29.5             | 32.4                       | 1.0                     | 13.5                       | 1.0                     | 1.66                   | 0.98                | 0.68                | 28.81      |
| 2699 | 6           | 20          | -10        | 20.9             | 25.6                       | 1.0                     | 7.5                        | 1.0                     | 1.19                   | 0.74                | 0.45                | 19.14      |
| 2700 | 6           | 20          | -10        | 21.5             | 26.3                       | 1.0                     | 8.0                        | 1.0                     | 1.23                   | 0.76                | 0.47                | 20.58      |
| 2708 | 6           | 20          | -5         | 16.1             | 21.5                       | 1.0                     | 3.0                        | 1.0                     | 0.73                   | 0.45                | 0.28                | 15.80      |
| 2712 | 6           | 20          | 0          | 11.5             | 16.5                       | 1.0                     | 0.0                        | 0.7                     | 0.57                   | 0.44                | 0.13                | 11.49      |
| 2716 | 6           | 20          | 5          | 7.5              | 12.0                       | 1.0                     | 0.0                        | 0.5                     | 0.37                   | 0.31                | 0.06                | 7.09       |
| 2737 | 6           | 20          | 5          |                  |                            |                         |                            |                         |                        |                     |                     |            |
| 2736 | 6           | 20          | 10         | 5.3              | 10.0                       | 1.0                     | 0.0                        | 0.4                     | 0.28                   | 0.24                | 0.03                | 6.32       |
| 2741 | 6           | 20          | 15         | 3.5              | 8.7                        | 1.0                     | 0.0                        | 0.2                     | 0.20                   | 0.19                | 0.01                | 2.78       |

\* Indicates model was close to heave stop



TABLE 4.201.1 - WETTED AREA DATA  
20 deg Deadrise, L/R = 0.000, Cv = 1.5

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Wetted Lengths   |                            |                         |                            |                         | Wetted Areas           |                     |                     | SKWL<br>in |
|--------|-------------|-------------|------------|------------------|----------------------------|-------------------------|----------------------------|-------------------------|------------------------|---------------------|---------------------|------------|
|        |             |             |            | Keel<br>Lk<br>in | Stbd<br>Chine<br>Lcs<br>in | Stbd<br>Beam<br>Bs<br>: | Port<br>Chine<br>Lcp<br>in | Port<br>Beam<br>Bp<br>: | Total<br>Atot<br>sq.ft | Stbd<br>As<br>sq.ft | Port<br>Ap<br>sq.ft |            |
| 1709   | -2          | -10         | 0          | 47.7             | 40.5                       | 0.5                     | 47.7                       | 1.0                     | 2.13                   | 0.71                | 1.42                | 46.51      |
| 1713   | -2          | -10         | 5          | 47.7             | 36.0                       | 0.5                     | 47.7                       | 1.0                     | 2.11                   | 0.69                | 1.42                | 46.70      |
| 1716 * | -2          | -10         | 10         | 47.7             | 36.0                       | 0.7                     | 47.7                       | 1.0                     | 2.38                   | 0.96                | 1.42                | 47.02      |
| 1718 * | -2          | -10         | 15         | 48.6             | 40.5                       | 0.7                     | 47.7                       | 1.0                     | 2.42                   | 1.00                | 1.42                | 47.30      |
| 1645   | -2          | 0           | 0          | 46.8             | 46.8                       | 1.0                     | 46.8                       | 1.0                     | 2.84                   | 1.42                | 1.42                | 46.44      |
| 1648   | -2          | 0           | 5          | 47.7             | 47.7                       | 1.0                     | 47.7                       | 1.0                     | 2.84                   | 1.42                | 1.42                | 46.61      |
| 1653   | -2          | 0           | 10         | 47.7             | 47.7                       | 1.0                     | 47.7                       | 1.0                     | 2.84                   | 1.42                | 1.42                | 46.90      |
| 1656 * | -2          | 0           | 15         | 47.7             | 47.7                       | 1.0                     | 47.7                       | 1.0                     | 2.84                   | 1.42                | 1.42                | 47.36      |
| 1660   | -2          | 10          | 0          | 46.8             | 46.8                       | 1.0                     | 42.1                       | 0.8                     | 2.55                   | 1.42                | 1.13                | 46.35      |
| 1664   | -2          | 10          | 5          | 47.7             | 47.7                       | 1.0                     | 31.5                       | 0.7                     | 2.34                   | 1.42                | 0.92                | 46.40      |
| 1681   | -2          | 10          | 5          | 47.7             | 47.7                       | 1.0                     | 36.0                       | 0.7                     | 2.38                   | 1.42                | 0.96                | 46.52      |
| 1683   | -2          | 10          | 10         | 47.7             | 47.7                       | 1.0                     | 36.0                       | 0.7                     | 2.38                   | 1.42                | 0.96                | 46.70      |
| 1686 * | -2          | 10          | 15         | 47.7             | 47.7                       | 1.0                     | 47.7                       | 1.0                     | 2.84                   | 1.42                | 1.42                | 47.16      |
| 1692   | -2          | 20          | 0          | 47.7             | 47.7                       | 1.0                     | 40.5                       | 0.5                     | 2.13                   | 1.42                | 0.71                | 46.27      |
| 1696   | -2          | 20          | 5          | 47.7             | 47.7                       | 1.0                     | 40.5                       | 0.5                     | 2.13                   | 1.42                | 0.71                | 46.30      |
| 1699   | -2          | 20          | 10         | 47.7             | 47.7                       | 1.0                     | 45.0                       | 0.5                     | 2.13                   | 1.42                | 0.71                | 46.52      |
| 1703 * | -2          | 20          | 15         | 47.7             | 47.7                       | 1.0                     | 31.5                       | 0.5                     | 2.08                   | 1.42                | 0.66                | 47.10      |
| 1627   | 0           | -10         | 0          | 45.4             | 24.3                       | 0.6                     | 33.3                       | 0.9                     | 1.87                   | 0.70                | 1.17                | 45.32      |
| 1631   | 0           | -10         | 5          | 45.4             | 31.5                       | 0.7                     | 43.2                       | 1.0                     | 2.29                   | 0.89                | 1.40                | 45.40      |
| 1635   | 0           | -10         | 10         | 46.3             | 35.1                       | 1.0                     | 44.1                       | 1.0                     | 2.75                   | 1.34                | 1.41                | 45.65      |
| 1639 * | 0           | -10         | 15         | 46.8             | 40.5                       | 0.9                     | 46.8                       | 1.0                     | 2.68                   | 1.26                | 1.42                | 46.15      |
| 1560   | 0           | 0           | 0          | 45.4             | 40.5                       | 1.0                     | 40.5                       | 1.0                     | 2.76                   | 1.38                | 1.38                | 45.57      |
| 1564   | 0           | 0           | 5          | 45.4             | 40.5                       | 1.0                     | 40.9                       | 1.0                     | 2.77                   | 1.38                | 1.38                | 45.38      |
| 1568   | 0           | 0           | 10         | 45.9             | 43.2                       | 1.0                     | 16.2                       | 1.0                     | 2.44                   | 1.40                | 1.03                | 45.51      |
| 1572 * | 0           | 0           | 15         | 47.7             | 47.7                       | 1.0                     | 47.7                       | 1.0                     | 2.84                   | 1.42                | 1.42                | 46.00      |
| 1577   | 0           | 10          | 0          | 45.3             | 41.4                       | 1.0                     | 38.3                       | 0.8                     | 2.48                   | 1.39                | 1.09                | 45.34      |
| 1582   | 0           | 10          | 5          | 45.4             | 41.4                       | 1.0                     | 37.8                       | 0.7                     | 2.34                   | 1.39                | 0.95                | 45.34      |
| 1586   | 0           | 10          | 10         | 45.7             | 42.1                       | 1.0                     | 40.5                       | 0.9                     | 2.64                   | 1.40                | 1.25                | 45.44      |
| 1591   | 0           | 10          | 15         | 45.9             | 45.9                       | 1.0                     | 45.9                       | 1.0                     | 2.83                   | 1.42                | 1.42                | 45.77      |
| 1607   | 0           | 20          | 0          | 45.0             | 40.5                       | 1.0                     | 40.5                       | 0.5                     | 2.06                   | 1.38                | 0.69                | 45.13      |
| 1611   | 0           | 20          | 5          | 45.0             | 42.3                       | 1.0                     | 40.5                       | 0.7                     | 2.35                   | 1.39                | 0.96                | 45.15      |
| 1615   | 0           | 20          | 10         | 45.0             | 40.5                       | 1.0                     | 40.5                       | 0.6                     | 2.20                   | 1.38                | 0.83                | 45.24      |
| 1619   | 0           | 20          | 15         | 45.9             | 45.9                       | 1.0                     | 16.2                       | 0.4                     | 1.83                   | 1.42                | 0.41                | 45.51      |
| 1397   | 3           | -10         | 0          | 40.7             | 24.3                       | 1.0                     | 34.0                       | 1.0                     | 2.32                   | 1.08                | 1.24                | 39.97      |
| 1393   | 3           | -10         | 5          | 41.0             | 8.1                        | 1.0                     | 34.2                       | 1.0                     | 2.06                   | 0.82                | 1.24                | 40.25      |
| 1390   | 3           | -10         | 10         | 41.8             | 9.9                        | 1.0                     | 35.4                       | 1.0                     | 2.13                   | 0.86                | 1.27                | 40.91      |
| 1405   | 3           | 0           | 0          | 40.9             | 29.7                       | 1.0                     | 29.9                       | 1.0                     | 2.35                   | 1.17                | 1.18                | 40.53      |
| 1409   | 3           | 0           | 5          | 41.1             | 29.3                       | 1.0                     | 30.7                       | 1.0                     | 2.36                   | 1.17                | 1.19                | 40.71      |
| 1413   | 3           | 0           | 10         | 41.7             | 29.7                       | 1.0                     | 31.9                       | 1.0                     | 2.41                   | 1.19                | 1.22                | 41.21      |
| 1417   | 3           | 0           | 15         | 42.7             | 30.3                       | 1.0                     | 34.2                       | 1.0                     | 2.48                   | 1.21                | 1.27                | 42.20      |

\* Indicates model was close to heave stop

TABLE 4.201.2 - WETTED AREA DATA  
 20 deg Deadrise, L/R = 0.000, CV = 1.5

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Wetted Lengths               |  |                                     |  |                                     | Wetted Areas                       |                                 |                                 | SKWL<br>in |
|------|-------------|-------------|------------|------------------------------|--|-------------------------------------|--|-------------------------------------|------------------------------------|---------------------------------|---------------------------------|------------|
|      |             |             |            | Keel<br>L <sub>k</sub><br>in | Stbd<br>Chine<br>L <sub>cs</sub><br>in | Stbd<br>Beam<br>B <sub>s</sub><br>: | Port<br>Chine<br>L <sub>cp</sub><br>in | Port<br>Beam<br>B <sub>p</sub><br>: | Total<br>A <sub>tot</sub><br>sq.ft | Stbd<br>A <sub>s</sub><br>sq.ft | Port<br>A <sub>p</sub><br>sq.ft |            |
| 1436 | 3           | 10          | 0          | 40.6                         | 33.5                                   | 1.0                                 | 25.2                                   | 1.0                                 | 2.32                               | 1.23                            | 1.09                            | 40.29      |
| 1440 | 3           | 10          | 5          | 40.5                         | 33.4                                   | 1.0                                 | 24.3                                   | 1.0                                 | 2.30                               | 1.22                            | 1.08                            | 40.29      |
| 1445 | 3           | 10          | 10         | 41.0                         | 34.2                                   | 1.0                                 | 27.0                                   | 1.0                                 | 2.37                               | 1.24                            | 1.13                            | 40.70      |
| 1449 | 3           | 10          | 15         | 37.1                         | 35.1                                   | 1.0                                 | 28.8                                   | 1.0                                 | 2.29                               | 1.20                            | 1.10                            | 41.33      |
| 1457 | 3           | 20          | 0          | 39.6                         | 35.9                                   | 1.0                                 | 0.0                                    | 0.7                                 | 1.71                               | 1.25                            | 0.46                            | 39.14      |
| 1461 | 3           | 20          | 5          | 39.6                         | 35.8                                   | 1.0                                 | 0.0                                    | 0.6                                 | 1.64                               | 1.25                            | 0.40                            | 39.25      |
| 1465 | 3           | 20          | 10         | 40.0                         | 36.3                                   | 1.0                                 | 18.0                                   | 1.0                                 | 2.22                               | 1.26                            | 0.96                            | 39.66      |
| 1469 | 3           | 20          | 15         | 40.4                         | 36.8                                   | 1.0                                 | 22.5                                   | 1.0                                 | 2.32                               | 1.27                            | 1.05                            | 40.11      |
| 1541 | 6           | -10         | 0          | 31.0                         | 17.7                                   | 1.0                                 | 26.4                                   | 1.0                                 | 1.76                               | 0.81                            | 0.95                            | 30.78      |
| 1545 | 6           | -10         | 5          | 31.6                         | 18.3                                   | 1.0                                 | 27.0                                   | 1.0                                 | 1.80                               | 0.83                            | 0.97                            | 31.45      |
| 1549 | 6           | -10         | 10         | 32.7                         | 12.6                                   | 1.0                                 | 27.8                                   | 1.0                                 | 1.76                               | 0.75                            | 1.01                            | 32.69      |
| 1553 | 6           | -10         | 15         | 34.8                         | 14.3                                   | 1.0                                 | 29.7                                   | 1.0                                 | 1.89                               | 0.82                            | 1.07                            | 34.89      |
| 1476 | 6           | 0           | 0          | 31.1                         | 21.6                                   | 1.0                                 | 22.5                                   | 1.0                                 | 1.77                               | 0.88                            | 0.89                            | 31.19      |
| 1480 | 6           | 0           | 5          | 31.5                         | 22.2                                   | 1.0                                 | 23.0                                   | 1.0                                 | 1.80                               | 0.89                            | 0.91                            | 31.67      |
| 1484 | 6           | 0           | 10         | 32.4                         | 22.9                                   | 1.0                                 | 23.6                                   | 1.0                                 | 1.85                               | 0.92                            | 0.93                            | 32.43      |
| 1488 | 6           | 0           | 15         | 33.8                         | 24.3                                   | 1.0                                 | 25.3                                   | 1.0                                 | 1.95                               | 0.97                            | 0.98                            | 33.88      |
| 1494 | 6           | 10          | 0          | 30.9                         | 25.9                                   | 1.0                                 | 18.2                                   | 1.0                                 | 1.76                               | 0.94                            | 0.82                            | 30.97      |
| 1498 | 6           | 10          | 5          | 30.9                         | 26.0                                   | 1.0                                 | 18.9                                   | 1.0                                 | 1.77                               | 0.95                            | 0.83                            | 31.07      |
| 1502 | 6           | 10          | 10         | 31.3                         | 26.1                                   | 1.0                                 | 19.4                                   | 1.0                                 | 1.80                               | 0.95                            | 0.84                            | 31.35      |
| 1506 | 6           | 10          | 15         | 31.8                         | 27.0                                   | 1.0                                 | 20.7                                   | 1.0                                 | 1.85                               | 0.98                            | 0.87                            | 32.12      |
| 1522 | 6           | 20          | 0          | 30.4                         | 29.3                                   | 1.0                                 | 2.7                                    | 1.0                                 | 1.54                               | 0.99                            | 0.55                            | 29.19      |
| 1525 | 6           | 20          | 5          | 30.1                         | 29.6                                   | 1.0                                 | 15.3                                   | 1.0                                 | 1.75                               | 0.99                            | 0.76                            | 28.90      |
| 1530 | 6           | 20          | 10         | 30.0                         | 29.4                                   | 1.0                                 | 15.5                                   | 1.0                                 | 1.74                               | 0.99                            | 0.76                            | 28.90      |
| 1534 | 6           | 20          | 15         | 29.7                         | 29.3                                   | 1.0                                 | 15.8                                   | 1.0                                 | 1.74                               | 0.98                            | 0.76                            | 28.62      |

\* Indicates model was close to heave stop

TABLE 4.203.1 - WETTED AREA DATA  
 20 deg Deadrise, L/R = 0.000, Cv = 3

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Wetted Lengths   |                            |                         |                            |                         | Wetted Areas           |                     |                     | SKWL<br>in |
|--------|-------------|-------------|------------|------------------|----------------------------|-------------------------|----------------------------|-------------------------|------------------------|---------------------|---------------------|------------|
|        |             |             |            | Keel<br>Lk<br>in | Stbd<br>Chine<br>Lcs<br>in | Stbd<br>Beam<br>Ba<br>: | Port<br>Chine<br>Lcp<br>in | Port<br>Beam<br>Bp<br>: | Total<br>Atot<br>sq.ft | Stbd<br>As<br>sq.ft | Port<br>Ap<br>sq.ft |            |
| 1710   | -2          | -10         | 0          | 47.7             | 47.7                       | 1.0                     | 47.7                       | 1.0                     | 2.84                   | 1.42                | 1.42                | 46.74      |
| 1714 * | -2          | -10         | 5          | 48.6             | 48.6                       | 1.0                     | 48.6                       | 1.0                     | 2.84                   | 1.42                | 1.42                | 47.14      |
| 1646   | -2          | 0           | 0          | 47.7             | 47.7                       | 1.0                     | 46.8                       | 1.0                     | 2.84                   | 1.42                | 1.42                | 46.55      |
| 1650 * | -2          | 0           | 5          | 47.7             | 47.7                       | 1.0                     | 47.7                       | 1.0                     | 2.84                   | 1.42                | 1.42                | 46.94      |
| 1654 * | -2          | 0           | 10         | 47.7             | 47.7                       | 1.0                     | 47.7                       | 1.0                     | 2.84                   | 1.42                | 1.42                | 47.32      |
| 1721 * | -2          | 0           | 10         | 48.6             | 48.6                       | 1.0                     | 48.6                       | 1.0                     | 2.84                   | 1.42                | 1.42                | 47.78      |
| 1661   | -2          | 10          | 0          | 47.7             | 47.7                       | 1.0                     | 47.7                       | 1.0                     | 2.84                   | 1.42                | 1.42                | 46.47      |
| 1665   | -2          | 10          | 5          | 47.7             | 47.7                       | 1.0                     | 47.7                       | 1.0                     | 2.84                   | 1.42                | 1.42                | 46.80      |
| 1690   | -2          | 10          | 5          |                  |                            |                         |                            |                         |                        |                     |                     | 46.87      |
| 1684 * | -2          | 10          | 10         | 47.7             | 47.7                       | 1.0                     | 47.7                       | 1.0                     | 2.84                   | 1.42                | 1.42                | 47.13      |
| 1688 * | -2          | 10          | 15         | 47.7             | 47.7                       | 1.0                     | 47.7                       | 1.0                     | 2.84                   | 1.42                | 1.42                | 47.09      |
| 1693   | -2          | 20          | 0          | 46.8             | 46.8                       | 1.0                     | 40.5                       | 0.5                     | 2.12                   | 1.42                | 0.70                | 46.29      |
| 1697   | -2          | 20          | 5          | 47.7             | 47.7                       | 1.0                     | 36.0                       | 0.8                     | 2.52                   | 1.42                | 1.10                | 46.41      |
| 1701 * | -2          | 20          | 10         | 47.7             | 47.7                       | 1.0                     | 47.7                       | 1.0                     | 2.84                   | 1.42                | 1.42                | 47.15      |
| 1628   | 0           | -10         | 0          | 45.0             | 31.5                       | 1.0                     | 40.5                       | 1.0                     | 2.65                   | 1.27                | 1.38                | 45.12      |
| 1632   | 0           | -10         | 5          | 45.9             | 34.2                       | 1.0                     | 42.3                       | 1.0                     | 2.72                   | 1.32                | 1.40                | 45.33      |
| 1636 * | 0           | -10         | 10         | 46.8             | 46.8                       | 1.0                     | 46.8                       | 1.0                     | 2.84                   | 1.42                | 1.42                | 46.46      |
| 1640 * | 0           | -10         | 15         | 47.3             | 0.0                        | 0.5                     | 47.3                       | 1.0                     | 1.82                   | 0.39                | 1.42                | 46.46      |
| 1561   | 0           | 0           | 0          | 45.0             | 37.8                       | 1.0                     | 38.4                       | 1.0                     | 2.71                   | 1.35                | 1.36                | 45.33      |
| 1565   | 0           | 0           | 5          | 45.3             | 39.6                       | 1.0                     | 39.9                       | 1.0                     | 2.75                   | 1.37                | 1.38                | 45.23      |
| 1569 * | 0           | 0           | 10         |                  |                            |                         |                            |                         |                        |                     |                     | 46.21      |
| 1573 * | 0           | 0           | 15         | 47.1             | 47.3                       | 1.0                     | 47.7                       | 1.0                     | 2.84                   | 1.42                | 1.42                | 47.03      |
| 1579   | 0           | 10          | 0          | 44.9             | 39.8                       | 1.0                     | 36.0                       | 0.8                     | 2.43                   | 1.37                | 1.06                | 45.11      |
| 1583   | 0           | 10          | 5          | 44.8             | 39.9                       | 1.0                     | 33.8                       | 1.0                     | 2.67                   | 1.37                | 1.30                | 45.13      |
| 1588   | 0           | 10          | 10         | 45.3             | 41.2                       | 1.0                     | 38.7                       | 1.0                     | 2.75                   | 1.39                | 1.37                | 45.35      |
| 1592 * | 0           | 10          | 15         | 47.7             | 47.7                       | 1.0                     | 47.7                       | 1.0                     | 2.84                   | 1.42                | 1.42                | 47.14      |
| 1608   | 0           | 20          | 0          | 44.1             | 41.4                       | 1.0                     | 40.5                       | 0.5                     | 2.06                   | 1.37                | 0.68                | 44.72      |
| 1612   | 0           | 20          | 5          | 45.0             | 41.4                       | 1.0                     | 10.8                       | 1.0                     | 2.31                   | 1.38                | 0.93                | 44.96      |
| 1616   | 0           | 20          | 10         | 44.1             | 39.6                       | 1.0                     | 10.8                       | 1.0                     | 2.27                   | 1.36                | 0.91                | 44.11      |
| 1620   | 0           | 20          | 15         | 42.8             | 37.8                       | 1.0                     | 0.0                        | 0.9                     | 1.96                   | 1.32                | 0.64                | 42.42      |
| 1398   | 3           | -10         | 0          | 37.5             | 16.2                       | 1.0                     | 29.2                       | 1.0                     | 2.00                   | 0.89                | 1.11                | 37.05      |
| 1394   | 3           | -10         | 5          | 38.3             | 14.4                       | 1.0                     | 30.4                       | 1.0                     | 2.02                   | 0.88                | 1.14                | 37.83      |
| 1391   | 3           | -10         | 10         | 40.3             | 16.2                       | 1.0                     | 33.3                       | 1.0                     | 2.16                   | 0.94                | 1.22                | 39.68      |
| 1400   | 3           | -10         | 13         | 42.3             | 21.6                       | 1.0                     | 36.9                       | 1.0                     | 2.36                   | 1.06                | 1.30                | 41.78      |
| 1388   | 3           | -10         | 15         | 44.0             | 27.9                       | 1.0                     | 39.6                       | 1.0                     | 2.55                   | 1.19                | 1.36                | 43.50      |
| 1406   | 3           | 0           | 0          | 37.4             | 22.0                       | 1.0                     | 22.8                       | 1.0                     | 1.99                   | 0.99                | 1.00                | 37.89      |
| 1410   | 3           | 0           | 5          | 37.7             | 22.5                       | 1.0                     | 23.4                       | 1.0                     | 2.02                   | 1.00                | 1.02                | 38.06      |
| 1414   | 3           | 0           | 10         | 38.7             | 24.2                       | 1.0                     | 26.1                       | 1.0                     | 2.12                   | 1.05                | 1.08                | 39.00      |
| 1418   | 3           | 0           | 15         | 41.1             | 28.7                       | 1.0                     | 31.4                       | 1.0                     | 2.36                   | 1.16                | 1.20                | 41.05      |

\* Indicates model was close to heave stop

TABLE 4.203.2 - WETTED AREA DATA  
 20 deg Deadrise, L/R = 0.000, Cv = 3

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Wetted Lengths   |                            |                         |                            |                         | Wetted Areas           |                     |                     | SKWL<br>in |
|------|-------------|-------------|------------|------------------|----------------------------|-------------------------|----------------------------|-------------------------|------------------------|---------------------|---------------------|------------|
|      |             |             |            | Keel<br>Lk<br>in | Stbd<br>Chine<br>Lcs<br>in | Stbd<br>Beam<br>Bs<br>: | Port<br>Chine<br>Lcp<br>in | Port<br>Beam<br>Bp<br>: | Total<br>Atot<br>sq.ft | Stbd<br>As<br>sq.ft | Port<br>Ap<br>sq.ft |            |
| 1437 | 3           | 10          | 0          | 36.9             | 28.1                       | 1.0                     | 15.3                       | 1.0                     | 1.95                   | 1.08                | 0.87                | 37.32      |
| 1442 | 3           | 10          | 5          | 35.3             | 26.1                       | 1.0                     | 13.5                       | 1.0                     | 1.83                   | 1.02                | 0.81                | 36.32      |
| 1446 | 3           | 10          | 10         | 34.4             | 25.2                       | 1.0                     | 13.5                       | 1.0                     | 1.79                   | 0.99                | 0.80                | 35.66      |
| 1450 | 3           | 10          | 15         | 34.0             | 24.9                       | 1.0                     | 13.5                       | 1.0                     | 1.77                   | 0.98                | 0.79                | 35.39      |
| 1458 | 3           | 20          | 0          | 35.5             | 32.2                       | 1.0                     | 7.2                        | 1.0                     | 1.83                   | 1.12                | 0.71                | 36.15      |
| 1462 | 3           | 20          | 5          | 32.8             | 30.3                       | 1.0                     | 6.3                        | 1.0                     | 1.70                   | 1.05                | 0.65                | 33.41      |
| 1466 | 3           | 20          | 10         | 27.6             | 26.9                       | 1.0                     | 0.0                        | 0.9                     | 1.32                   | 0.91                | 0.41                | 27.13      |
| 1470 | 3           | 20          | 15         | 23.8             | 23.6                       | 1.0                     | 0.0                        | 0.8                     | 1.11                   | 0.79                | 0.32                | 22.17      |
| 1542 | 6           | -10         | 0          | 20.2             | 9.0                        | 1.0                     | 15.5                       | 1.0                     | 1.08                   | 0.49                | 0.59                | 20.06      |
| 1546 | 6           | -10         | 5          | 15.0             | 1.8                        | 1.0                     | 9.5                        | 1.0                     | 0.69                   | 0.28                | 0.41                | 22.55      |
| 1550 | 6           | -10         | 10         | 25.5             | 11.7                       | 1.0                     | 21.1                       | 1.0                     | 1.39                   | 0.62                | 0.78                | 25.13      |
| 1554 | 6           | -10         | 15         | 29.4             | 14.4                       | 1.0                     | 25.0                       | 1.0                     | 1.63                   | 0.73                | 0.90                | 29.92      |
| 1477 | 6           | 0           | 0          | 18.9             | 9.9                        | 1.0                     | 9.9                        | 1.0                     | 0.96                   | 0.48                | 0.48                | 18.85      |
| 1481 | 6           | 0           | 5          | 19.5             | 10.4                       | 1.0                     | 10.5                       | 1.0                     | 1.00                   | 0.50                | 0.50                | 19.52      |
| 1485 | 6           | 0           | 10         | 20.5             | 11.5                       | 1.0                     | 11.7                       | 1.0                     | 1.07                   | 0.53                | 0.54                | 20.47      |
| 1489 | 6           | 0           | 15         | 22.3             | 13.0                       | 1.0                     | 13.5                       | 1.0                     | 1.18                   | 0.59                | 0.60                | 22.29      |
| 1495 | 6           | 10          | 0          | 19.6             | 14.9                       | 1.0                     | 7.2                        | 1.0                     | 1.02                   | 0.57                | 0.45                | 19.39      |
| 1499 | 6           | 10          | 5          | 17.6             | 12.7                       | 1.0                     | 5.2                        | 1.0                     | 0.88                   | 0.50                | 0.38                | 17.00      |
| 1503 | 6           | 10          | 10         | 15.8             | 11.3                       | 1.0                     | 3.6                        | 1.0                     | 0.77                   | 0.45                | 0.32                | 15.19      |
| 1507 | 6           | 10          | 15         | 15.0             | 10.3                       | 1.0                     | 3.1                        | 1.0                     | 0.72                   | 0.42                | 0.30                | 14.42      |
| 1523 | 6           | 20          | 0          | 21.5             | 21.3                       | 1.0                     | 5.8                        | 1.0                     | 1.17                   | 0.71                | 0.45                | 20.10      |
| 1527 | 6           | 20          | 5          | 17.5             | 17.3                       | 1.0                     | 1.8                        | 1.0                     | 0.90                   | 0.58                | 0.32                | 15.80      |
| 1531 | 6           | 20          | 10         | 14.2             | 14.1                       | 1.0                     | 0.0                        | 0.9                     | 0.68                   | 0.47                | 0.21                | 12.16      |
| 1535 | 6           | 20          | 15         | 12.5             | 12.5                       | 1.0                     | 0.0                        | 0.7                     | 0.56                   | 0.42                | 0.15                | 10.15      |

\* Indicates model was close to heave stop

TABLE 4.204.1 - WETTED AREA DATA  
 20 deg Deadrise, L/R = 0.000, Cv = 4

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Wetted Lengths   |                            |                         |                            |                         | Wetted Areas           |                     |                     | SKWL<br>in |
|--------|-------------|-------------|------------|------------------|----------------------------|-------------------------|----------------------------|-------------------------|------------------------|---------------------|---------------------|------------|
|        |             |             |            | Keel<br>Lk<br>in | Stbd<br>Chine<br>Lcs<br>in | Stbd<br>Beam<br>Bs<br>: | Port<br>Chine<br>Lcp<br>in | Port<br>Beam<br>Bp<br>: | Total<br>Atot<br>sq.ft | Stbd<br>As<br>sq.ft | Port<br>Ap<br>sq.ft |            |
| 1711 * | -2          | -10         | 0          | 48.6             | 48.6                       | 1.0                     | 48.6                       | 1.0                     | 2.84                   | 1.42                | 1.42                | 47.22      |
| 1647 * | -2          | 0           | 0          | 47.7             | 47.7                       | 1.0                     | 47.7                       | 1.0                     | 2.84                   | 1.42                | 1.42                | 47.19      |
| 1651 * | -2          | 0           | 5          | 47.7             | 47.7                       | 1.0                     | 47.7                       | 1.0                     | 2.84                   | 1.42                | 1.42                | 47.30      |
| 1662 * | -2          | 10          | 0          | 47.7             | 47.7                       | 1.0                     | 47.7                       | 1.0                     | 2.84                   | 1.42                | 1.42                | 47.31      |
| 1666 * | -2          | 10          | 5          | 47.7             | 47.7                       | 1.0                     | 47.7                       | 1.0                     | 2.84                   | 1.42                | 1.42                | 47.31      |
| 1694 * | -2          | 20          | 0          | 46.8             | 46.8                       | 1.0                     | 46.8                       | 1.0                     | 2.84                   | 1.42                | 1.42                | 47.20      |
| 1698 * | -2          | 20          | 5          | 47.7             | 47.7                       | 1.0                     | 47.7                       | 1.0                     | 2.84                   | 1.42                | 1.42                | 47.18      |
| 1629   | 0           | -10         | 0          | 45.0             | 32.4                       | 1.0                     | 40.9                       | 1.0                     | 2.66                   | 1.28                | 1.38                | 45.24      |
| 1633   | 0           | -10         | 5          | 46.3             | 36.0                       | 1.0                     | 45.0                       | 1.0                     | 2.77                   | 1.35                | 1.42                | 45.89      |
| 1637 * | 0           | -10         | 10         | 46.8             | 46.8                       | 1.0                     | 46.8                       | 1.0                     | 2.84                   | 1.42                | 1.42                | 46.47      |
| 1562   | 0           | 0           | 0          | 44.7             | 34.2                       | 1.0                     | 36.1                       | 1.0                     | 2.63                   | 1.30                | 1.33                | 45.20      |
| 1566   | 0           | 0           | 5          | 45.3             | 40.5                       | 1.0                     | 40.5                       | 1.0                     | 2.76                   | 1.38                | 1.38                | 45.30      |
| 1570 * | 0           | 0           | 10         | 47.2             | 47.2                       | 1.0                     | 47.2                       | 1.0                     | 2.84                   | 1.42                | 1.42                | 47.03      |
| 1574 * | 0           | 0           | 15         | 47.7             | 47.7                       | 1.0                     | 47.7                       | 1.0                     | 2.84                   | 1.42                | 1.42                | 47.03      |
| 1580   | 0           | 10          | 0          | 44.9             | 40.0                       | 1.0                     | 32.4                       | 0.9                     | 2.52                   | 1.37                | 1.15                | 45.23      |
| 1584   | 0           | 10          | 5          | 44.3             | 37.8                       | 1.0                     | 28.8                       | 1.0                     | 2.56                   | 1.34                | 1.21                | 44.96      |
| 1589   | 0           | 10          | 10         | 44.1             | 36.6                       | 1.0                     | 27.0                       | 1.0                     | 2.51                   | 1.33                | 1.18                | 44.36      |
| 1593 * | 0           | 10          | 15         | 47.2             | 47.2                       | 1.0                     | 47.2                       | 1.0                     | 2.84                   | 1.42                | 1.42                | 46.47      |
| 1609   | 0           | 20          | 0          | 45.0             | 40.5                       | 1.0                     | 18.0                       | 1.0                     | 2.42                   | 1.38                | 1.05                | 45.12      |
| 1613   | 0           | 20          | 5          | 43.2             | 39.6                       | 1.0                     | 22.5                       | 1.0                     | 2.44                   | 1.34                | 1.09                | 44.32      |
| 1617   | 0           | 20          | 10         | 41.6             | 36.4                       | 1.0                     | 0.0                        | 0.6                     | 1.70                   | 1.28                | 0.42                | 41.87      |
| 1621   | 0           | 20          | 15         | 39.6             | 34.2                       | 1.0                     | 0.0                        | 0.5                     | 1.55                   | 1.22                | 0.33                | 40.16      |
| 1399   | 3           | -10         | 0          | 34.0             | 9.9                        | 1.0                     | 24.3                       | 1.0                     | 1.70                   | 0.73                | 0.97                | 34.68      |
| 1395   | 3           | -10         | 5          | 36.1             | 11.7                       | 1.0                     | 27.8                       | 1.0                     | 1.86                   | 0.80                | 1.06                | 36.62      |
| 1385   | 3           | -10         | 10         | 43.0             | 16.2                       | 1.0                     | 37.8                       | 1.0                     | 2.31                   | 0.98                | 1.32                | 39.58      |
| 1386   | 3           | -10         | 13         | 42.8             | 25.2                       | 1.0                     | 37.5                       | 1.0                     | 2.45                   | 1.13                | 1.32                | 42.32      |
| 1384 * | 3           | -10         | 15         | 44.2             | 28.8                       | 1.0                     | 40.3                       | 1.0                     | 2.58                   | 1.21                | 1.36                | 44.17      |
| 1407   | 3           | 0           | 0          | 32.8             | 15.3                       | 1.0                     | 15.3                       | 1.0                     | 1.60                   | 0.80                | 0.80                | 34.70      |
| 1411   | 3           | 0           | 5          | 34.4             | 15.6                       | 1.0                     | 16.9                       | 1.0                     | 1.68                   | 0.83                | 0.85                | 35.59      |
| 1415   | 3           | 0           | 10         | 35.6             | 18.0                       | 1.0                     | 19.8                       | 1.0                     | 1.81                   | 0.89                | 0.92                | 36.98      |
| 1419   | 3           | 0           | 15         | 40.4             | 26.8                       | 1.0                     | 29.8                       | 1.0                     | 2.28                   | 1.12                | 1.17                | 40.62      |

\* Indicates model was close to heave stop

TABLE 4.204.2 - WETTED AREA DATA  
 20 deg Deadrise, L/R = 0.000, Cv = 4

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Wetted Lengths               |  |                                     |  |                                     | Wetted Areas                       |                                 |                                 | SKWL<br>in |
|------|-------------|-------------|------------|------------------------------|--|-------------------------------------|--|-------------------------------------|------------------------------------|---------------------------------|---------------------------------|------------|
|      |             |             |            | Keel<br>L <sub>k</sub><br>in | Stbd<br>Chine<br>L <sub>cs</sub><br>in | Stbd<br>Beam<br>B <sub>s</sub><br>: | Port<br>Chine<br>L <sub>cp</sub><br>in | Port<br>Beam<br>B <sub>p</sub><br>: | Total<br>A <sub>tot</sub><br>sq.ft | Stbd<br>A <sub>s</sub><br>sq.ft | Port<br>A <sub>p</sub><br>sq.ft |            |
| 1438 | 3           | 10          | 0          | 32.8                         | 22.9                                   | 1.0                                 | 8.4                                    | 1.0                                 | 1.61                               | 0.93                            | 0.69                            | 34.79      |
| 1443 | 3           | 10          | 5          | 28.1                         | 18.4                                   | 1.0                                 | 4.5                                    | 1.0                                 | 1.32                               | 0.77                            | 0.54                            | 29.75      |
| 1447 | 3           | 10          | 10         | 25.5                         | 16.0                                   | 1.0                                 | 1.8                                    | 1.0                                 | 1.14                               | 0.69                            | 0.45                            | 27.27      |
| 1451 | 3           | 10          | 15         | 24.8                         | 14.4                                   | 1.0                                 | 1.3                                    | 1.0                                 | 1.09                               | 0.65                            | 0.43                            | 26.12      |
| 1459 | 3           | 20          | 0          | 32.2                         | 29.7                                   | 1.0                                 | 3.6                                    | 1.0                                 | 1.62                               | 1.03                            | 0.60                            | 34.00      |
| 1463 | 3           | 20          | 5          | 24.9                         | 24.3                                   | 1.0                                 | 0.0                                    | 0.8                                 | 1.15                               | 0.82                            | 0.33                            | 24.65      |
| 1467 | 3           | 20          | 10         | 19.2                         | 18.6                                   | 1.0                                 | 0.0                                    | 0.6                                 | 0.82                               | 0.63                            | 0.19                            | 18.54      |
| 1471 | 3           | 20          | 15         | 16.4                         | 15.6                                   | 1.0                                 | 0.0                                    | 0.5                                 | 0.67                               | 0.53                            | 0.14                            | 15.48      |
| 1543 | 6           | -10         | 0          | 12.7                         | 0.0                                    | 1.0                                 | 8.1                                    | 1.0                                 | 0.56                               | 0.21                            | 0.35                            | 12.60      |
| 1547 | 6           | -10         | 5          | 15.0                         | 1.8                                    | 1.0                                 | 9.5                                    | 1.0                                 | 0.69                               | 0.28                            | 0.41                            | 15.28      |
| 1551 | 6           | -10         | 10         | 17.8                         | 3.6                                    | 1.0                                 | 13.5                                   | 1.0                                 | 0.88                               | 0.36                            | 0.52                            | 18.06      |
| 1555 | 6           | -10         | 15         | 22.3                         | 7.4                                    | 1.0                                 | 18.0                                   | 1.0                                 | 1.16                               | 0.49                            | 0.67                            | 22.74      |
| 1478 | 6           | 0           | 0          | 12.2                         | 2.8                                    | 1.0                                 | 2.8                                    | 1.0                                 | 0.50                               | 0.25                            | 0.25                            | 12.25      |
| 1482 | 6           | 0           | 5          | 12.3                         | 2.7                                    | 1.0                                 | 2.7                                    | 1.0                                 | 0.50                               | 0.25                            | 0.25                            | 12.25      |
| 1486 | 6           | 0           | 10         | 12.5                         | 2.7                                    | 1.0                                 | 3.1                                    | 1.0                                 | 0.51                               | 0.25                            | 0.26                            | 12.53      |
| 1490 | 6           | 0           | 15         | 13.0                         | 2.7                                    | 1.0                                 | 3.6                                    | 1.0                                 | 0.54                               | 0.26                            | 0.28                            | 13.20      |
| 1496 | 6           | 10          | 0          | 12.5                         | 7.7                                    | 1.0                                 | 0.0                                    | 0.9                                 | 0.52                               | 0.34                            | 0.19                            | 12.41      |
| 1500 | 6           | 10          | 5          | 11.7                         | 6.8                                    | 1.0                                 | 0.0                                    | 0.8                                 | 0.46                               | 0.31                            | 0.16                            | 11.55      |
| 1504 | 6           | 10          | 10         | 10.9                         | 6.2                                    | 1.0                                 | 0.0                                    | 0.8                                 | 0.43                               | 0.28                            | 0.15                            | 10.88      |
| 1508 | 6           | 10          | 15         | 11.2                         | 6.2                                    | 1.0                                 | 0.0                                    | 0.8                                 | 0.44                               | 0.29                            | 0.15                            | 10.69      |
| 1524 | 6           | 20          | 0          | 13.9                         | 13.8                                   | 1.0                                 | 0.0                                    | 0.8                                 | 0.65                               | 0.46                            | 0.18                            | 12.83      |
| 1528 | 6           | 20          | 5          | 10.3                         | 10.0                                   | 1.0                                 | 0.0                                    | 0.6                                 | 0.44                               | 0.34                            | 0.10                            | 8.72       |
| 1532 | 6           | 20          | 10         | 8.4                          | 8.3                                    | 1.0                                 | 0.0                                    | 0.4                                 | 0.33                               | 0.28                            | 0.06                            | 6.80       |
| 1536 | 6           | 20          | 15         | 7.4                          | 7.3                                    | 1.0                                 | 0.0                                    | 0.4                                 | 0.29                               | 0.24                            | 0.05                            | 5.85       |

\* Indicates model was close to heave stop

TABLE 4.211.1 - WETTED AREA DATA  
 20 deg Deadrise, L/R = 0.117, Cv = 1.5

| RUN   | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Wetted Lengths   |                            |                         |                            |                         | Wetted Areas           |                     |                     | SKWL<br>in |
|-------|-------------|-------------|------------|------------------|----------------------------|-------------------------|----------------------------|-------------------------|------------------------|---------------------|---------------------|------------|
|       |             |             |            | Keel<br>Lk<br>in | Stbd<br>Chine<br>Lca<br>in | Stbd<br>Beam<br>Ba<br>: | Port<br>Chine<br>Lcp<br>in | Port<br>Beam<br>Bp<br>: | Total<br>Atot<br>sq.ft | Stbd<br>As<br>sq.ft | Port<br>Ap<br>sq.ft |            |
| 586   | 0           | -10         | -10        | 46.0             | 45.0                       | 0.8                     | 43.5                       | 1.0                     | 2.54                   | 1.13                | 1.41                | 45.57      |
| 581   | 0           | -10         | -5         | 45.5             | 43.0                       | 0.8                     | 43.0                       | 1.0                     | 2.52                   | 1.12                | 1.40                | 45.47      |
| 570   | 0           | -10         | 0          | 45.5             | 26.0                       | 0.4                     | 37.0                       | 0.7                     | 1.42                   | 0.48                | 0.95                | 45.42      |
| 573   | 0           | -10         | 5          | 46.0             | 37.0                       | 0.8                     | 46.0                       | 1.0                     | 2.50                   | 1.09                | 1.42                | 45.52      |
| 578   | 0           | -10         | 10         | 46.0             | 34.0                       | 0.8                     | 45.0                       | 1.0                     | 2.47                   | 1.06                | 1.41                | 45.79      |
| 469 * | 0           | 0           | -15        | 46.5             | 46.0                       | 1.0                     | 40.0                       | 1.0                     | 2.81                   | 1.42                | 1.39                | 46.09      |
| 465   | 0           | 0           | -10        | 45.7             | 43.0                       | 1.0                     | 38.5                       | 1.0                     | 2.77                   | 1.40                | 1.37                | 45.70      |
| 460   | 0           | 0           | -5         | 45.5             | 41.5                       | 1.0                     | 38.5                       | 1.0                     | 2.76                   | 1.39                | 1.37                | 45.54      |
| 443   | 0           | 0           | 0          | 45.2             | 40.3                       | 1.0                     | 40.0                       | 1.0                     | 2.75                   | 1.38                | 1.37                | 45.49      |
| 447   | 0           | 0           | 5          | 45.2             | 40.0                       | 1.0                     | 40.0                       | 1.0                     | 2.75                   | 1.37                | 1.37                | 45.54      |
| 451   | 0           | 0           | 10         | 45.5             | 40.0                       | 1.0                     | 39.0                       | 1.0                     | 2.75                   | 1.38                | 1.37                | 45.69      |
| 455 * | 0           | 0           | 15         | 46.5             | 43.0                       | 1.0                     | 43.0                       | 1.0                     | 2.82                   | 1.41                | 1.41                | 46.10      |
| 535   | 0           | 10          | -10        | 46.0             | 45.0                       | 1.0                     | 40.0                       | 0.9                     | 2.66                   | 1.41                | 1.25                | 45.71      |
| 531   | 0           | 10          | -5         | 45.5             | 43.0                       | 1.0                     | 34.0                       | 0.9                     | 2.58                   | 1.40                | 1.18                | 45.50      |
| 472   | 0           | 10          | 0          | 45.2             | 42.0                       | 1.0                     | 35.0                       | 0.8                     | 2.45                   | 1.39                | 1.06                | 45.45      |
| 518   | 0           | 10          | 0          | 45.3             | 42.5                       | 1.0                     | 35.0                       | 0.8                     | 2.45                   | 1.39                | 1.06                | 45.39      |
| 476   | 0           | 10          | 5          | 45.3             | 42.0                       | 1.0                     | 31.0                       | 0.6                     | 2.15                   | 1.39                | 0.76                | 45.48      |
| 523   | 0           | 10          | 5          | 45.5             | 42.0                       | 1.0                     | 38.0                       | 0.8                     | 2.48                   | 1.39                | 1.09                | 45.43      |
| 526   | 0           | 10          | 10         | 45.5             | 42.2                       | 1.0                     | 41.0                       | 1.0                     | 2.78                   | 1.39                | 1.39                | 45.53      |
| 561   | 0           | 20          | -10        | 46.0             | 45.0                       | 1.0                     | 0.0                        | 0.5                     | 1.80                   | 1.41                | 0.38                | 45.66      |
| 556   | 0           | 20          | -5         | 45.3             | 43.7                       | 1.0                     | 0.0                        | 0.6                     | 1.85                   | 1.40                | 0.45                | 45.35      |
| 539   | 0           | 20          | 0          | 45.2             | 43.0                       | 1.0                     | 35.0                       | 0.6                     | 2.19                   | 1.40                | 0.79                | 45.30      |
| 544   | 0           | 20          | 5          | 45.2             | 43.0                       | 1.0                     | 28.0                       | 0.6                     | 2.13                   | 1.40                | 0.73                | 45.29      |
| 549   | 0           | 20          | 10         | 45.3             | 43.0                       | 1.0                     | 35.0                       | 0.5                     | 2.06                   | 1.40                | 0.66                | 45.43      |
| 251   | 3           | -10         | -15        | 42.1             | 30.0                       | 1.0                     | 35.2                       | 1.0                     | 2.47                   | 1.20                | 1.28                | 41.46      |
| 246   | 3           | -10         | -10        | 41.3             | 27.5                       | 1.0                     | 34.0                       | 1.0                     | 2.39                   | 1.14                | 1.25                | 41.04      |
| 242   | 3           | -10         | -5         | 41.1             | 25.0                       | 1.0                     | 33.0                       | 1.0                     | 2.33                   | 1.10                | 1.23                | 40.78      |
| 238   | 3           | -10         | 0          | 41.0             | 25.0                       | 1.0                     | 33.0                       | 1.0                     | 2.32                   | 1.10                | 1.23                | 40.74      |
| 234   | 3           | -10         | 5          | 41.1             | 25.0                       | 1.0                     | 33.0                       | 1.0                     | 2.33                   | 1.10                | 1.23                | 41.04      |
| 230   | 3           | -10         | 10         | 41.8             | 10.0                       | 1.0                     | 33.0                       | 1.0                     | 2.10                   | 0.86                | 1.24                | 41.62      |
| 226   | 3           | -10         | 15         | 43.1             | 18.0                       | 1.0                     | 35.0                       | 1.0                     | 2.30                   | 1.02                | 1.29                | 42.90      |
| 108   | 3           | 0           | -15        |                  |                            |                         |                            |                         |                        |                     |                     | 42.23      |
| 110   | 3           | 0           | -15        | 43.0             | 35.0                       | 1.0                     | 29.5                       | 1.0                     | 2.49                   | 1.29                | 1.20                | 42.20      |
| 105   | 3           | 0           | -10        | 41.5             | 29.0                       | 1.0                     | 31.5                       | 1.0                     | 2.38                   | 1.17                | 1.21                | 41.42      |
| 101   | 3           | 0           | -5         | 41.0             | 30.0                       | 1.0                     | 30.0                       | 1.0                     | 2.36                   | 1.18                | 1.18                | 41.05      |
| 97    | 3           | 0           | 0          |                  |                            |                         |                            |                         |                        |                     |                     | 41.05      |
| 91    | 3           | 0           | 5          |                  |                            |                         |                            |                         |                        |                     |                     | 41.38      |
| 92    | 3           | 0           | 5          |                  |                            |                         |                            |                         |                        |                     |                     | 41.17      |
| 88    | 3           | 0           | 10         |                  |                            |                         |                            |                         |                        |                     |                     | 41.81      |
| 86    | 3           | 0           | 15         |                  |                            |                         |                            |                         |                        |                     |                     | 42.67      |

\* Indicates model was close to heave stop

TABLE 4.211.2 - WETTED AREA DATA  
20 deg Deadrise, L/R = 0.117, Cv = 1.5

| RUN | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Wetted Lengths   |                            |                         |                            |                         | Wetted Areas                       |                                 |                                 | SKWL<br>in |
|-----|-------------|-------------|------------|------------------|----------------------------|-------------------------|----------------------------|-------------------------|------------------------------------|---------------------------------|---------------------------------|------------|
|     |             |             |            | Keel<br>Lk<br>in | Stbd<br>Chine<br>Lcs<br>in | Stbd<br>Beam<br>Bs<br>: | Port<br>Chine<br>Lcp<br>in | Port<br>Beam<br>Bp<br>: | Total<br>A <sub>tot</sub><br>sq.ft | Stbd<br>A <sub>s</sub><br>sq.ft | Port<br>A <sub>p</sub><br>sq.ft |            |
| 114 | 3           | 10          | -15        | 43.0             | 34.0                       | 1.0                     | 17.0                       | 1.0                     | 2.27                               | 1.27                            | 1.00                            | 42.50      |
| 160 | 3           | 10          | -10        | 41.5             | 35.0                       | 1.0                     | 12.0                       | 1.0                     | 2.15                               | 1.26                            | 0.89                            | 41.54      |
| 164 | 3           | 10          | -5         | 41.0             | 34.7                       | 1.0                     | 10.0                       | 1.0                     | 2.10                               | 1.25                            | 0.85                            | 40.87      |
| 168 | 3           | 10          | 0          | 40.7             | 34.0                       | 1.0                     | 9.0                        | 1.0                     | 2.06                               | 1.24                            | 0.83                            | 40.70      |
| 172 | 3           | 10          | 5          | 40.5             | 34.0                       | 1.0                     | 20.0                       | 1.0                     | 2.24                               | 1.23                            | 1.01                            | 40.91      |
| 188 | 3           | 10          | 10         | 41.0             | 34.5                       | 1.0                     | 23.0                       | 1.0                     | 2.31                               | 1.25                            | 1.06                            | 41.04      |
| 192 | 3           | 10          | 15         | 41.5             | 35.5                       | 1.0                     | 26.0                       | 1.0                     | 2.39                               | 1.27                            | 1.12                            | 41.74      |
| 220 | 3           | 20          | -15        | 42.8             | 38.5                       | 1.0                     | 14.0                       | 1.0                     | 2.27                               | 1.33                            | 0.94                            | 41.67      |
| 216 | 3           | 20          | -10        | 41.5             | 36.0                       | 1.0                     | 9.0                        | 1.0                     | 2.12                               | 1.28                            | 0.84                            | 40.67      |
| 212 | 3           | 20          | -5         | 41.0             | 35.0                       | 1.0                     | 5.0                        | 1.0                     | 2.02                               | 1.26                            | 0.77                            | 40.06      |
| 204 | 3           | 20          | 5          | 40.2             | 34.5                       | 1.0                     | 19.0                       | 1.0                     | 2.22                               | 1.24                            | 0.98                            | 39.76      |
| 208 | 3           | 20          | 5          | 40.5             | 34.5                       | 1.0                     | 7.0                        | 1.0                     | 2.03                               | 1.24                            | 0.79                            | 39.86      |
| 200 | 3           | 20          | 10         | 41.0             | 35.0                       | 1.0                     | 23.0                       | 1.0                     | 2.32                               | 1.26                            | 1.06                            | 40.34      |
| 196 | 3           | 20          | 15         | 41.5             | 35.5                       | 1.0                     | 25.0                       | 1.0                     | 2.38                               | 1.27                            | 1.11                            | 40.94      |
| 420 | 6           | -10         | -15        | 32.3             | 20.0                       | 1.0                     | 27.0                       | 1.0                     | 1.86                               | 0.87                            | 0.99                            | 33.52      |
| 416 | 6           | -10         | -10        | 32.0             | 19.6                       | 1.0                     | 26.0                       | 1.0                     | 1.82                               | 0.86                            | 0.96                            | 32.98      |
| 412 | 6           | -10         | -5         | 31.0             | 19.0                       | 1.0                     | 26.0                       | 1.0                     | 1.78                               | 0.83                            | 0.95                            | 32.69      |
| 409 | 6           | -10         | -5         |                  |                            |                         |                            |                         |                                    |                                 |                                 | 32.60      |
| 394 | 6           | -10         | 0          | 31.0             | 20.0                       | 1.0                     | 26.0                       | 1.0                     | 1.80                               | 0.85                            | 0.95                            | 32.79      |
| 398 | 6           | -10         | 5          | 32.0             | 19.5                       | 1.0                     | 26.5                       | 1.0                     | 1.83                               | 0.86                            | 0.97                            | 33.61      |
| 402 | 6           | -10         | 10         | 33.0             | 20.0                       | 1.0                     | 27.0                       | 1.0                     | 1.88                               | 0.88                            | 1.00                            | 34.82      |
| 406 | 6           | -10         | 15         | 35.1             | 14.0                       | 1.0                     | 29.0                       | 1.0                     | 1.88                               | 0.82                            | 1.07                            | 35.95      |
| 296 | 6           | 0           | -15        | 33.3             | 24.9                       | 1.0                     | 23.5                       | 1.0                     | 1.91                               | 0.97                            | 0.94                            | 34.34      |
| 292 | 6           | 0           | -10        | 32.8             | 23.8                       | 1.0                     | 23.0                       | 1.0                     | 1.87                               | 0.94                            | 0.93                            | 33.55      |
| 288 | 6           | 0           | -5         | 32.1             | 23.2                       | 1.0                     | 22.7                       | 1.0                     | 1.83                               | 0.92                            | 0.91                            | 33.10      |
| 268 | 6           | 0           | 0          | 32.2             | 22.8                       | 1.0                     | 22.7                       | 1.0                     | 1.83                               | 0.91                            | 0.91                            | 33.01      |
| 274 | 6           | 0           | 5          | 32.6             | 23.0                       | 1.0                     | 23.0                       | 1.0                     | 1.85                               | 0.92                            | 0.92                            | 33.46      |
| 278 | 6           | 0           | 10         | 32.8             | 23.7                       | 1.0                     | 23.5                       | 1.0                     | 1.88                               | 0.94                            | 0.94                            | 33.80      |
| 284 | 6           | 0           | 15         | 34.3             | 25.0                       | 1.0                     | 25.8                       | 1.0                     | 1.99                               | 0.99                            | 1.00                            | 35.10      |
| 300 | 6           | 10          | -15        | 34.2             | 29.0                       | 1.0                     | 13.2                       | 1.0                     | 1.84                               | 1.05                            | 0.79                            | 34.47      |
| 305 | 6           | 10          | -10        | 32.8             | 27.5                       | 1.0                     | 13.5                       | 1.0                     | 1.77                               | 1.00                            | 0.77                            | 33.26      |
| 309 | 6           | 10          | -5         | 31.4             | 25.3                       | 1.0                     | 16.2                       | 1.0                     | 1.73                               | 0.94                            | 0.79                            | 32.79      |
| 325 | 6           | 10          | 0          | 31.0             | 26.0                       | 1.0                     | 16.5                       | 1.0                     | 1.74                               | 0.95                            | 0.79                            | 32.12      |
| 329 | 6           | 10          | 5          | 31.4             | 26.0                       | 1.0                     | 16.0                       | 1.0                     | 1.74                               | 0.95                            | 0.79                            | 32.69      |
| 333 | 6           | 10          | 10         | 31.6             | 26.7                       | 1.0                     | 17.0                       | 1.0                     | 1.78                               | 0.97                            | 0.81                            | 33.17      |
| 337 | 6           | 10          | 15         | 32.2             | 27.9                       | 1.0                     | 19.0                       | 1.0                     | 1.85                               | 1.00                            | 0.85                            | 33.69      |
| 365 | 6           | 20          | -15        | 34.0             | 34.0                       | 1.0                     | 3.0                        | 1.0                     | 1.74                               | 1.13                            | 0.62                            | 33.56      |
| 361 | 6           | 20          | -10        | 32.0             | 31.0                       | 1.0                     | 0.0                        | 1.0                     | 1.58                               | 1.05                            | 0.53                            | 31.96      |
| 357 | 6           | 20          | -5         | 31.0             | 30.4                       | 1.0                     | 0.0                        | 1.0                     | 1.54                               | 1.02                            | 0.52                            | 30.91      |
| 341 | 6           | 20          | 0          | 30.2             | 30.0                       | 1.0                     | 5.0                        | 1.0                     | 1.59                               | 1.00                            | 0.59                            | 30.34      |
| 345 | 6           | 20          | 5          | 30.1             | 29.6                       | 1.0                     | 9.0                        | 1.0                     | 1.64                               | 0.99                            | 0.65                            | 29.95      |
| 349 | 6           | 20          | 10         | 30.2             | 29.9                       | 1.0                     | 11.0                       | 1.0                     | 1.68                               | 1.00                            | 0.69                            | 30.43      |
| 353 | 6           | 20          | 15         | 30.0             | 29.4                       | 1.0                     | 11.0                       | 1.0                     | 1.67                               | 0.99                            | 0.68                            | 30.05      |

\* Indicates model was close to heave stop



TABLE 4.213.1 - WETTED AREA DATA  
 20 deg Deadrise, L/R = 0.117, Cv = 3

| RUN   | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Wetted Lengths   |                            |                         |                            |                         | Wetted Areas           |                     |                     | SKWL<br>in |
|-------|-------------|-------------|------------|------------------|----------------------------|-------------------------|----------------------------|-------------------------|------------------------|---------------------|---------------------|------------|
|       |             |             |            | Keel<br>Lk<br>in | Stbd<br>Chine<br>Lcs<br>in | Stbd<br>Beam<br>Bs<br>: | Port<br>Chine<br>Lcp<br>in | Port<br>Beam<br>Bp<br>: | Total<br>Atot<br>sq.ft | Stbd<br>As<br>sq.ft | Port<br>Ap<br>sq.ft |            |
| 587   | 0           | -10         | -10        | 46.0             | 43.0                       | 1.0                     | 43.0                       | 1.0                     | 2.81                   | 1.40                | 1.40                | 45.44      |
| 583   | 0           | -10         | -5         | 45.5             | 44.0                       | 0.9                     | 41.0                       | 1.0                     | 2.65                   | 1.26                | 1.39                | 45.25      |
| 571   | 0           | -10         | 0          | 45.2             | 35.0                       | 0.9                     | 41.0                       | 1.0                     | 2.57                   | 1.19                | 1.38                | 45.21      |
| 575   | 0           | -10         | 5          | 46.0             | 28.0                       | 0.9                     | 46.0                       | 1.0                     | 2.52                   | 1.11                | 1.42                | 45.59      |
| 579 * | 0           | -10         | 10         | 46.5             | 46.0                       | 1.0                     | 46.0                       | 1.0                     | 2.84                   | 1.42                | 1.42                | 46.08      |
| 466 * | 0           | 0           | -10        | 46.3             | 46.0                       | 1.0                     | 41.0                       | 1.0                     | 2.81                   | 1.42                | 1.40                | 46.09      |
| 461   | 0           | 0           | -5         | 45.5             | 40.5                       | 1.0                     | 38.0                       | 1.0                     | 2.74                   | 1.38                | 1.36                | 45.32      |
| 444   | 0           | 0           | 0          | 45.1             | 39.5                       | 1.0                     | 37.0                       | 1.0                     | 2.71                   | 1.37                | 1.35                | 45.29      |
| 448   | 0           | 0           | 5          | 45.3             | 40.0                       | 1.0                     | 41.0                       | 1.0                     | 2.76                   | 1.38                | 1.38                | 45.44      |
| 452 * | 0           | 0           | 10         | 46.3             | 43.0                       | 1.0                     | 43.0                       | 1.0                     | 2.81                   | 1.41                | 1.41                | 46.10      |
| 456 * | 0           | 0           | 15         | 47.0             | 35.0                       | 1.0                     | 43.0                       | 1.0                     | 2.76                   | 1.35                | 1.41                | 46.10      |
| 536   | 0           | 10          | -10        | 46.3             | 45.0                       | 1.0                     | 36.0                       | 1.0                     | 2.77                   | 1.42                | 1.35                | 45.88      |
| 532   | 0           | 10          | -5         | 45.3             | 42.8                       | 1.0                     | 33.0                       | 1.0                     | 2.69                   | 1.40                | 1.30                | 45.34      |
| 473   | 0           | 10          | 0          | 45.2             | 42.0                       | 1.0                     | 28.0                       | 0.8                     | 2.36                   | 1.39                | 0.97                | 45.26      |
| 478   | 0           | 10          | 5          | 45.1             | 41.0                       | 1.0                     | 30.0                       | 1.0                     | 2.63                   | 1.38                | 1.25                | 45.26      |
| 527   | 0           | 10          | 10         | 45.3             | 40.0                       | 1.0                     | 40.0                       | 1.0                     | 2.75                   | 1.38                | 1.38                | 45.47      |
| 528   | 0           | 10          | 10         | 45.3             | 42.0                       | 1.0                     | 40.0                       | 1.0                     | 2.77                   | 1.39                | 1.38                | 45.47      |
| 562 * | 0           | 20          | -10        | 46.3             | 46.0                       | 1.0                     | 0.0                        | 1.0                     | 2.19                   | 1.42                | 0.77                | 45.93      |
| 567   | 0           | 20          | -8         | 46.0             | 45.0                       | 1.0                     | 0.0                        | 0.2                     | 1.57                   | 1.41                | 0.15                | 45.50      |
| 557   | 0           | 20          | -5         | 45.3             | 45.0                       | 1.0                     | 0.0                        | 0.6                     | 1.86                   | 1.41                | 0.45                | 45.17      |
| 558   | 0           | 20          | -5         | 45.0             | 43.0                       | 1.0                     | 0.0                        | 0.5                     | 1.77                   | 1.39                | 0.37                | 45.17      |
| 540   | 0           | 20          | 0          | 45.1             | 42.5                       | 1.0                     | 30.0                       | 0.8                     | 2.39                   | 1.39                | 1.00                | 45.03      |
| 546   | 0           | 20          | 5          | 45.0             | 43.0                       | 1.0                     | 40.0                       | 1.0                     | 2.77                   | 1.39                | 1.37                | 45.09      |
| 550   | 0           | 20          | 10         | 44.2             | 40.9                       | 1.0                     | 25.0                       | 1.0                     | 2.52                   | 1.37                | 1.15                | 44.52      |
| 252   | 3           | -10         | -15        | 14.5             | 37.0                       | 1.0                     | 27.3                       | 1.0                     | 1.58                   | 0.88                | 0.70                | 36.16      |
| 247   | 3           | -10         | -10        | 36.8             | 16.0                       | 1.0                     | 28.0                       | 1.0                     | 1.96                   | 0.88                | 1.08                | 36.98      |
| 243   | 3           | -10         | -5         | 38.1             | 18.0                       | 1.0                     | 29.0                       | 1.0                     | 2.05                   | 0.93                | 1.12                | 37.83      |
| 239   | 3           | -10         | 0          | 39.0             | 18.0                       | 1.0                     | 30.0                       | 1.0                     | 2.09                   | 0.95                | 1.15                | 38.42      |
| 235   | 3           | -10         | 5          | 44.7             | 18.0                       | 1.0                     | 32.0                       | 1.0                     | 2.32                   | 1.04                | 1.27                | 39.28      |
| 231   | 3           | -10         | 10         | 41.5             | 25.0                       | 1.0                     | 33.0                       | 1.0                     | 2.34                   | 1.11                | 1.23                | 41.21      |
| 227 * | 3           | -10         | 15         | 44.5             | 33.0                       | 1.0                     | 38.0                       | 1.0                     | 2.63                   | 1.28                | 1.35                | 44.39      |
| 111   | 3           | 0           | -15        | 41.0             | 31.5                       | 1.0                     | 28.0                       | 1.0                     | 2.35                   | 1.20                | 1.15                | 40.71      |
| 106   | 3           | 0           | -10        | 39.0             | 27.0                       | 1.0                     | 25.0                       | 1.0                     | 2.16                   | 1.10                | 1.06                | 39.16      |
| 102   | 3           | 0           | -5         | 39.0             | 24.0                       | 1.0                     | 25.0                       | 1.0                     | 2.11                   | 1.05                | 1.06                | 38.85      |
| 98    | 3           | 0           | 0          | 39.0             | 24.0                       | 1.0                     | 24.0                       | 1.0                     | 2.10                   | 1.05                | 1.05                | 38.63      |
| 94    | 3           | 0           | 5          |                  |                            |                         |                            |                         |                        |                     |                     | 39.06      |
| 89    | 3           | 0           | 10         |                  |                            |                         |                            |                         |                        |                     |                     | 40.31      |
| 85    | 3           | 0           | 15         |                  |                            |                         |                            |                         |                        |                     |                     | 42.31      |

\* Indicates model was close to heave stop

TABLE 4.213.2 - WETTED AREA DATA  
 20 deg Deadrise, L/R = 0.117, Cv = 3

| RUN | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Wetted Lengths               |  |                                     |  |                                     | Wetted Areas                       |                                 |                                 | SKWL<br>in |
|-----|-------------|-------------|------------|------------------------------|--|-------------------------------------|--|-------------------------------------|------------------------------------|---------------------------------|---------------------------------|------------|
|     |             |             |            | Keel<br>L <sub>k</sub><br>in | Stbd<br>Chine<br>L <sub>cs</sub><br>in | Stbd<br>Beam<br>B <sub>s</sub><br>: | Port<br>Chine<br>L <sub>cp</sub><br>in | Port<br>Beam<br>B <sub>p</sub><br>: | Total<br>A <sub>tot</sub><br>sq.ft | Stbd<br>A <sub>s</sub><br>sq.ft | Port<br>A <sub>p</sub><br>sq.ft |            |
| 115 | 3           | 10          | -15        | 44.0                         | 44.0                                   | 1.0                                 | 15.0                                   | 1.0                                 | 2.37                               | 1.39                            | 0.98                            | 42.69      |
| 155 | 3           | 10          | -15        | 43.0                         | 37.5                                   | 1.0                                 | 16.0                                   | 1.0                                 | 2.30                               | 1.32                            | 0.98                            | 42.05      |
| 156 | 3           | 10          | -15        | 43.0                         | 38.3                                   | 1.0                                 | 15.0                                   | 1.0                                 | 2.29                               | 1.33                            | 0.96                            | 42.13      |
| 161 | 3           | 10          | -10        | 40.0                         | 33.0                                   | 1.0                                 | 10.0                                   | 1.0                                 | 2.04                               | 1.21                            | 0.83                            | 39.87      |
| 165 | 3           | 10          | -5         | 38.0                         | 30.0                                   | 1.0                                 | 14.0                                   | 1.0                                 | 1.99                               | 1.13                            | 0.86                            | 38.31      |
| 169 | 3           | 10          | 0          | 37.5                         | 29.3                                   | 1.0                                 | 12.0                                   | 1.0                                 | 1.93                               | 1.11                            | 0.82                            | 37.89      |
| 173 | 3           | 10          | 5          | 36.2                         | 27.5                                   | 1.0                                 | 10.0                                   | 1.0                                 | 1.83                               | 1.06                            | 0.77                            | 37.05      |
| 189 | 3           | 10          | 10         | 35.0                         | 25.5                                   | 1.0                                 | 8.0                                    | 1.0                                 | 1.72                               | 1.01                            | 0.72                            | 36.55      |
| 193 | 3           | 10          | 15         | 35.5                         | 26.5                                   | 1.0                                 | 10.0                                   | 1.0                                 | 1.79                               | 1.03                            | 0.76                            | 36.70      |
| 221 | 3           | 20          | -15        | 42.5                         | 37.8                                   | 1.0                                 | 0.0                                    | 0.5                                 | 1.67                               | 1.32                            | 0.35                            | 41.20      |
| 217 | 3           | 20          | -10        | 40.2                         | 34.0                                   | 1.0                                 | 5.0                                    | 1.0                                 | 1.98                               | 1.23                            | 0.75                            | 38.76      |
| 213 | 3           | 20          | -5         | 38.1                         | 31.0                                   | 1.0                                 | 7.0                                    | 1.0                                 | 1.90                               | 1.15                            | 0.75                            | 37.20      |
| 209 | 3           | 20          | 0          | 37.3                         | 30.0                                   | 1.0                                 | 9.0                                    | 1.0                                 | 1.89                               | 1.12                            | 0.77                            | 36.55      |
| 205 | 3           | 20          | 5          | 35.3                         | 28.0                                   | 1.0                                 | 6.0                                    | 1.0                                 | 1.74                               | 1.05                            | 0.69                            | 34.94      |
| 201 | 3           | 20          | 10         | 34.0                         | 26.6                                   | 1.0                                 | 4.0                                    | 1.0                                 | 1.64                               | 1.01                            | 0.63                            | 33.86      |
| 197 | 3           | 20          | 15         | 33.0                         | 25.0                                   | 1.0                                 | 1.0                                    | 1.0                                 | 1.53                               | 0.96                            | 0.57                            | 32.29      |
| 421 | 6           | -10         | -15        | 16.5                         | 4.0                                    | 1.0                                 | 11.4                                   | 1.0                                 | 0.80                               | 0.34                            | 0.46                            | 17.86      |
| 417 | 6           | -10         | -10        | 18.0                         | 6.5                                    | 1.0                                 | 13.0                                   | 1.0                                 | 0.92                               | 0.41                            | 0.52                            | 19.20      |
| 413 | 6           | -10         | -5         | 20.0                         | 7.0                                    | 1.0                                 | 14.5                                   | 1.0                                 | 1.02                               | 0.45                            | 0.57                            | 20.73      |
| 395 | 6           | -10         | 0          | 23.0                         | 10.0                                   | 1.0                                 | 17.8                                   | 1.0                                 | 1.23                               | 0.55                            | 0.68                            | 23.51      |
| 399 | 6           | -10         | 5          | 25.0                         | 11.0                                   | 1.0                                 | 20.0                                   | 1.0                                 | 1.35                               | 0.60                            | 0.75                            | 25.71      |
| 403 | 6           | -10         | 10         | 28.0                         | 14.0                                   | 1.0                                 | 23.0                                   | 1.0                                 | 1.55                               | 0.70                            | 0.85                            | 29.25      |
| 407 | 6           | -10         | 15         | 33.0                         | 20.0                                   | 1.0                                 | 26.0                                   | 1.0                                 | 1.86                               | 0.88                            | 0.98                            | 33.74      |
| 297 | 6           | 0           | -15        | 22.2                         | 13.0                                   | 1.0                                 | 11.0                                   | 1.0                                 | 1.14                               | 0.59                            | 0.55                            | 22.39      |
| 293 | 6           | 0           | -10        | 20.9                         | 12.0                                   | 1.0                                 | 10.0                                   | 1.0                                 | 1.06                               | 0.55                            | 0.51                            | 21.24      |
| 289 | 6           | 0           | -5         | 20.4                         | 11.5                                   | 1.0                                 | 10.0                                   | 1.0                                 | 1.04                               | 0.53                            | 0.51                            | 20.86      |
| 269 | 6           | 0           | 0          | 20.6                         | 11.3                                   | 1.0                                 | 10.1                                   | 1.0                                 | 1.04                               | 0.53                            | 0.51                            | 21.05      |
| 275 | 6           | 0           | 5          | 21.2                         | 11.8                                   | 1.0                                 | 11.8                                   | 1.0                                 | 1.10                               | 0.55                            | 0.55                            | 21.62      |
| 279 | 6           | 0           | 10         | 22.0                         | 13.0                                   | 1.0                                 | 11.7                                   | 1.0                                 | 1.14                               | 0.58                            | 0.56                            | 23.25      |
| 280 | 6           | 0           | 10         | 22.5                         | 13.0                                   | 1.0                                 | 12.0                                   | 1.0                                 | 1.16                               | 0.59                            | 0.57                            | 23.15      |
| 285 | 6           | 0           | 15         | 25.0                         | 15.4                                   | 1.0                                 | 15.4                                   | 1.0                                 | 1.34                               | 0.67                            | 0.67                            | 25.93      |
| 302 | 6           | 10          | -15        | 28.0                         | 22.9                                   | 1.0                                 | 11.5                                   | 1.0                                 | 1.50                               | 0.85                            | 0.66                            | 27.91      |
| 306 | 6           | 10          | -10        | 24.3                         | 20.0                                   | 1.0                                 | 9.0                                    | 1.0                                 | 1.29                               | 0.74                            | 0.55                            | 24.75      |
| 310 | 6           | 10          | -5         | 22.1                         | 17.0                                   | 1.0                                 | 11.4                                   | 1.0                                 | 1.21                               | 0.65                            | 0.56                            | 22.26      |
| 326 | 6           | 10          | 0          | 19.4                         | 14.8                                   | 1.0                                 | 3.6                                    | 1.0                                 | 0.95                               | 0.57                            | 0.38                            | 19.87      |
| 330 | 6           | 10          | 5          | 17.3                         | 12.7                                   | 1.0                                 | 1.0                                    | 1.0                                 | 0.80                               | 0.50                            | 0.30                            | 18.15      |
| 334 | 6           | 10          | 10         | 16.0                         | 11.5                                   | 1.0                                 | 0.0                                    | 1.0                                 | 0.72                               | 0.46                            | 0.27                            | 16.91      |
| 338 | 6           | 10          | 15         | 15.3                         | 10.5                                   | 1.0                                 | 0.0                                    | 0.9                                 | 0.66                               | 0.43                            | 0.23                            | 16.24      |
| 366 | 6           | 20          | -15        | 28.3                         | 28.3                                   | 1.0                                 | 7.0                                    | 1.0                                 | 1.53                               | 0.94                            | 0.59                            | 28.81      |
| 362 | 6           | 20          | -10        | 25.0                         | 25.0                                   | 1.0                                 | 3.0                                    | 1.0                                 | 1.30                               | 0.83                            | 0.47                            | 25.08      |
| 358 | 6           | 20          | -5         | 23.0                         | 23.0                                   | 1.0                                 | 2.0                                    | 1.0                                 | 1.18                               | 0.77                            | 0.42                            | 22.78      |
| 342 | 6           | 20          | 0          | 20.0                         | 19.8                                   | 1.0                                 | 0.0                                    | 0.9                                 | 0.96                               | 0.66                            | 0.30                            | 19.24      |
| 346 | 6           | 20          | 5          | 16.0                         | 16.0                                   | 1.0                                 | 0.0                                    | 0.6                                 | 0.69                               | 0.53                            | 0.16                            | 15.41      |
| 350 | 6           | 20          | 10         | 14.0                         | 14.0                                   | 1.0                                 | 0.0                                    | 0.5                                 | 0.58                               | 0.47                            | 0.12                            | 13.12      |
| 354 | 6           | 20          | 15         | 11.7                         | 11.3                                   | 1.0                                 | 0.0                                    | 0.4                                 | 0.46                               | 0.38                            | 0.08                            | 11.40      |

\* Indicates model was close to heave stop

TABLE 4.214.1 - WETTED AREA DATA  
20 deg Deadrise, L/R = 0.117, Cv = 4

| RUN   | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Wetted Lengths   |                            |                         |                            |                         | Wetted Areas           |                     |                     | SKWL<br>in |
|-------|-------------|-------------|------------|------------------|----------------------------|-------------------------|----------------------------|-------------------------|------------------------|---------------------|---------------------|------------|
|       |             |             |            | Keel<br>Lk<br>in | Stbd<br>Chine<br>Lcs<br>in | Stbd<br>Beam<br>Bs<br>: | Port<br>Chine<br>Lcp<br>in | Port<br>Beam<br>Bp<br>: | Total<br>Atot<br>sq.ft | Stbd<br>As<br>sq.ft | Port<br>Ap<br>sq.ft |            |
| 588   | 0           | -10         | -10        | 45.5             | 45.0                       | 1.0                     | 42.0                       | 1.0                     | 2.80                   | 1.41                | 1.39                | 45.36      |
| 584   | 0           | -10         | -5         | 45.0             | 35.0                       | 1.0                     | 40.5                       | 1.0                     | 2.70                   | 1.32                | 1.38                | 45.07      |
| 572   | 0           | -10         | 0          | 45.2             | 33.0                       | 0.9                     | 41.0                       | 1.0                     | 2.55                   | 1.16                | 1.38                | 45.23      |
| 576 * | 0           | -10         | 5          | 46.5             | 28.0                       | 0.9                     | 46.0                       | 1.0                     | 2.53                   | 1.11                | 1.42                | 46.06      |
| 580 * | 0           | -10         | 10         | 46.5             | 46.0                       | 1.0                     | 46.0                       | 1.0                     | 2.84                   | 1.42                | 1.42                | 46.08      |
| 467 * | 0           | 0           | -10        | 46.3             | 46.0                       | 1.0                     | 41.0                       | 1.0                     | 2.81                   | 1.42                | 1.40                | 46.10      |
| 462   | 0           | 0           | -5         | 45.3             | 40.5                       | 1.0                     | 37.0                       | 1.0                     | 2.73                   | 1.38                | 1.35                | 45.32      |
| 445   | 0           | 0           | 0          | 45.5             | 38.0                       | 1.0                     | 37.0                       | 1.0                     | 2.71                   | 1.36                | 1.35                | 45.18      |
| 449   | 0           | 0           | 5          | 45.3             | 40.0                       | 1.0                     | 40.0                       | 1.0                     | 2.75                   | 1.38                | 1.38                | 45.38      |
| 453 * | 0           | 0           | 10         | 46.3             | 36.0                       | 1.0                     | 42.0                       | 1.0                     | 2.75                   | 1.35                | 1.40                | 46.10      |
| 457 * | 0           | 0           | 15         | 47.0             | 42.0                       | 1.0                     | 42.0                       | 1.0                     | 2.82                   | 1.41                | 1.41                | 46.11      |
| 537 * | 0           | 10          | -10        | 46.5             | 46.0                       | 1.0                     | 40.0                       | 1.0                     | 2.81                   | 1.42                | 1.39                | 46.08      |
| 533   | 0           | 10          | -5         | 45.8             | 44.0                       | 1.0                     | 32.0                       | 1.0                     | 2.70                   | 1.41                | 1.29                | 45.58      |
| 474   | 0           | 10          | 0          | 45.0             | 42.0                       | 1.0                     | 28.0                       | 0.9                     | 2.48                   | 1.39                | 1.09                | 45.25      |
| 519   | 0           | 10          | 0          | 45.2             | 42.0                       | 1.0                     | 33.0                       | 1.0                     | 2.68                   | 1.39                | 1.29                | 45.25      |
| 520   | 0           | 10          | 0          | 45.2             | 41.9                       | 1.0                     | 33.0                       | 0.9                     | 2.55                   | 1.39                | 1.16                | 45.24      |
| 479   | 0           | 10          | 5          | 44.7             | 38.5                       | 1.0                     | 24.0                       | 1.0                     | 2.50                   | 1.35                | 1.14                | 44.92      |
| 521   | 0           | 10          | 5          | 45.5             | 39.5                       | 1.0                     | 30.0                       | 1.0                     | 2.63                   | 1.37                | 1.25                | 44.95      |
| 529   | 0           | 10          | 10         | 44.4             | 39.0                       | 1.0                     | 31.0                       | 1.0                     | 2.61                   | 1.36                | 1.25                | 44.96      |
| 563   | 0           | 20          | -10        | 45.0             | 45.0                       | 1.0                     | 0.0                        | 1.0                     | 2.16                   | 1.41                | 0.75                | 45.79      |
| 566 * | 0           | 20          | -8         | 46.0             | 46.0                       | 1.0                     | 0.0                        | 0.3                     | 1.65                   | 1.42                | 0.23                | 45.99      |
| 554   | 0           | 20          | -5         | 45.3             | 44.0                       | 1.0                     | 37.0                       | 0.7                     | 2.35                   | 1.40                | 0.94                | 45.31      |
| 559   | 0           | 20          | -5         | 45.3             | 44.0                       | 1.0                     | 0.0                        | 0.6                     | 1.86                   | 1.40                | 0.45                | 45.37      |
| 541   | 0           | 20          | 0          | 45.0             | 43.0                       | 1.0                     | 25.0                       | 0.9                     | 2.44                   | 1.39                | 1.05                | 45.18      |
| 547   | 0           | 20          | 5          | 44.0             | 40.7                       | 1.0                     | 30.0                       | 1.0                     | 2.59                   | 1.37                | 1.23                | 44.28      |
| 564   | 0           | 20          | 5          | 44.3             | 41.0                       | 1.0                     | 21.0                       | 1.0                     | 2.46                   | 1.37                | 1.09                | 44.36      |
| 551   | 0           | 20          | 10         | 42.3             | 37.5                       | 1.0                     | 0.0                        | 0.8                     | 1.87                   | 1.31                | 0.56                | 42.42      |
| 552   | 0           | 20          | 10         | 42.3             | 37.4                       | 1.0                     | 0.0                        | 0.8                     | 1.87                   | 1.31                | 0.56                | 42.42      |
| 565   | 0           | 20          | 10         | 42.6             | 38.0                       | 1.0                     | 0.0                        | 0.8                     | 1.89                   | 1.32                | 0.57                | 42.57      |
| 253   | 3           | -10         | -15        | 28.7             | 3.0                        | 1.0                     | 18.0                       | 1.0                     | 1.30                   | 0.53                | 0.78                | 29.18      |
| 248   | 3           | -10         | -10        | 31.0             | 6.0                        | 1.0                     | 20.9                       | 1.0                     | 1.48                   | 0.62                | 0.86                | 31.28      |
| 249   | 3           | -10         | -10        |                  |                            |                         |                            |                         |                        |                     |                     | 30.90      |
| 244   | 3           | -10         | -5         | 34.8             | 10.0                       | 1.0                     | 24.5                       | 1.0                     | 1.73                   | 0.75                | 0.99                | 34.68      |
| 240   | 3           | -10         | 0          | 36.1             | 14.0                       | 1.0                     | 27.0                       | 1.0                     | 1.88                   | 0.83                | 1.05                | 36.77      |
| 236   | 3           | -10         | 5          | 38.7             | 16.0                       | 1.0                     | 29.0                       | 1.0                     | 2.03                   | 0.91                | 1.12                | 38.13      |
| 232   | 3           | -10         | 10         | 41.8             | 25.0                       | 1.0                     | 32.0                       | 1.0                     | 2.34                   | 1.11                | 1.22                | 41.58      |
| 228 * | 3           | -10         | 15         | 44.2             | 33.0                       | 1.0                     | 38.0                       | 1.0                     | 2.62                   | 1.28                | 1.34                | 44.42      |
| 254 * | 3           | -10         | 15         | 44.2             | 33.0                       | 1.0                     | 38.0                       | 1.0                     | 2.62                   | 1.28                | 1.34                | 44.39      |
| 112   | 3           | 0           | -15        | 40.0             | 28.0                       | 1.0                     | 24.0                       | 1.0                     | 2.19                   | 1.13                | 1.06                | 39.51      |
| 107   | 3           | 0           | -10        | 36.0             | 20.0                       | 1.0                     | 17.0                       | 1.0                     | 1.81                   | 0.93                | 0.88                | 36.48      |
| 103   | 3           | 0           | -5         | 35.0             | 17.0                       | 1.0                     | 20.0                       | 1.0                     | 1.78                   | 0.86                | 0.91                | 36.17      |
| 99    | 3           | 0           | 0          | 35.0             | 24.0                       | 1.0                     | 16.0                       | 1.0                     | 1.83                   | 0.98                | 0.85                | 36.33      |
| 95    | 3           | 0           | 5          |                  |                            |                         |                            |                         |                        |                     |                     | 36.98      |
| 82    | 3           | 0           | 10         |                  |                            |                         |                            |                         |                        |                     |                     | 38.30      |
| 84    | 3           | 0           | 15         |                  |                            |                         |                            |                         |                        |                     |                     | 41.93      |

\* Indicates model was close to heave stop

TABLE 4.214.2 - WETTED AREA DATA  
20 deg Deadrise, L/R = 0.117, Cv = 4

| RUN | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Wetted Lengths   |                            |                         |                            |                         | Wetted Areas                       |                     |                     | SKWL<br>in |
|-----|-------------|-------------|------------|------------------|----------------------------|-------------------------|----------------------------|-------------------------|------------------------------------|---------------------|---------------------|------------|
|     |             |             |            | Keel<br>Lk<br>in | Stbd<br>Chine<br>Lcs<br>in | Stbd<br>Beam<br>Bs<br>: | Port<br>Chine<br>Lcp<br>in | Port<br>Beam<br>Bp<br>: | Total<br>A <sub>tot</sub><br>sq.ft | Stbd<br>As<br>sq.ft | Port<br>Ap<br>sq.ft |            |
| 158 | 3           | 10          | -15        | 38.0             | 30.0                       | 1.0                     | 9.0                        | 1.0                     | 1.91                               | 1.13                | 0.78                | 41.74      |
| 162 | 3           | 10          | -10        | 38.0             | 35.0                       | 1.0                     | 8.0                        | 1.0                     | 1.97                               | 1.21                | 0.77                | 37.83      |
| 166 | 3           | 10          | -5         | 36.0             | 27.0                       | 1.0                     | 9.0                        | 1.0                     | 1.80                               | 1.05                | 0.75                | 36.70      |
| 170 | 3           | 10          | 0          | 34.0             | 25.0                       | 1.0                     | 4.0                        | 1.0                     | 1.61                               | 0.98                | 0.63                | 34.79      |
| 174 | 3           | 10          | 5          | 30.0             | 20.0                       | 1.0                     | 0.0                        | 1.0                     | 1.33                               | 0.83                | 0.50                | 31.47      |
| 186 | 3           | 10          | 5          | 29.5             | 19.5                       | 1.0                     | 0.0                        | 0.9                     | 1.26                               | 0.81                | 0.44                | 31.09      |
| 190 | 3           | 10          | 10         | 28.0             | 18.0                       | 1.0                     | 0.0                        | 0.9                     | 1.18                               | 0.77                | 0.42                | 29.94      |
| 194 | 3           | 10          | 15         | 27.3             | 17.0                       | 1.0                     | 0.0                        | 0.9                     | 1.15                               | 0.74                | 0.41                | 28.99      |
| 222 | 3           | 20          | -15        | 37.5             | 30.5                       | 1.0                     | 9.0                        | 1.0                     | 1.90                               | 1.13                | 0.77                | 38.47      |
| 224 | 3           | 20          | -14        | 42.5             | 38.0                       | 1.0                     | 10.0                       | 1.0                     | 2.19                               | 1.32                | 0.87                | 41.50      |
| 223 | 3           | 20          | -13        | 41.8             | 37.0                       | 1.0                     | 11.0                       | 1.0                     | 2.17                               | 1.30                | 0.88                | 40.76      |
| 218 | 3           | 20          | -10        | 38.5             | 31.5                       | 1.0                     | 4.0                        | 1.0                     | 1.87                               | 1.16                | 0.71                | 37.20      |
| 214 | 3           | 20          | -5         | 35.8             | 28.3                       | 1.0                     | 6.0                        | 1.0                     | 1.76                               | 1.07                | 0.70                | 35.25      |
| 210 | 3           | 20          | 0          | 33.6             | 25.0                       | 1.0                     | 2.0                        | 1.0                     | 1.57                               | 0.97                | 0.59                | 31.34      |
| 206 | 3           | 20          | 5          | 29.0             | 23.0                       | 1.0                     | 0.0                        | 0.8                     | 1.25                               | 0.86                | 0.39                | 26.56      |
| 202 | 3           | 20          | 10         | 27.0             | 19.8                       | 1.0                     | 0.0                        | 0.7                     | 1.09                               | 0.78                | 0.31                | 25.22      |
| 198 | 3           | 20          | 15         | 25.0             | 17.0                       | 1.0                     | 0.0                        | 0.7                     | 0.99                               | 0.70                | 0.29                | 24.27      |
| 422 | 6           | -10         | -15        | 11.8             | 0.0                        | 0.8                     | 6.0                        | 1.0                     | 0.45                               | 0.16                | 0.30                | 13.65      |
| 418 | 6           | -10         | -10        | 12.5             | 0.0                        | 0.8                     | 6.5                        | 1.0                     | 0.48                               | 0.17                | 0.32                | 13.65      |
| 414 | 6           | -10         | -5         | 13.1             | 0.0                        | 0.9                     | 7.0                        | 1.0                     | 0.53                               | 0.20                | 0.33                | 14.23      |
| 396 | 6           | -10         | 0          | 15.0             | 6.0                        | 1.0                     | 9.0                        | 1.0                     | 0.75                               | 0.35                | 0.40                | 15.76      |
| 400 | 6           | -10         | 5          | 17.5             | 4.0                        | 1.0                     | 11.7                       | 1.0                     | 0.84                               | 0.36                | 0.49                | 18.25      |
| 404 | 6           | -10         | 10         | 21.4             | 7.0                        | 1.0                     | 16.0                       | 1.0                     | 1.09                               | 0.47                | 0.62                | 22.36      |
| 408 | 6           | -10         | 15         | 28.3             | 16.0                       | 1.0                     | 23.1                       | 1.0                     | 1.59                               | 0.74                | 0.85                | 29.92      |
| 298 | 6           | 0           | -15        | 14.1             | 4.0                        | 1.0                     | 2.8                        | 1.0                     | 0.58                               | 0.30                | 0.28                | 14.64      |
| 294 | 6           | 0           | -10        | 13.6             | 3.6                        | 1.0                     | 2.5                        | 1.0                     | 0.55                               | 0.29                | 0.27                | 14.16      |
| 290 | 6           | 0           | -5         | 13.4             | 3.0                        | 1.0                     | 2.0                        | 1.0                     | 0.53                               | 0.27                | 0.26                | 14.06      |
| 270 | 6           | 0           | 0          | 13.2             | 2.5                        | 1.0                     | 2.0                        | 1.0                     | 0.51                               | 0.26                | 0.25                | 13.87      |
| 272 | 6           | 0           | 0          | 13.1             | 3.0                        | 1.0                     | 1.8                        | 1.0                     | 0.52                               | 0.27                | 0.25                | 13.78      |
| 276 | 6           | 0           | 5          | 13.2             | 3.5                        | 1.0                     | 2.7                        | 1.0                     | 0.54                               | 0.28                | 0.26                | 14.25      |
| 281 | 6           | 0           | 10         | 13.7             | 14.7                       | 1.0                     | 2.8                        | 1.0                     | 0.75                               | 0.47                | 0.27                | 14.45      |
| 286 | 6           | 0           | 15         | 13.7             | 5.6                        | 1.0                     | 3.0                        | 1.0                     | 0.60                               | 0.32                | 0.28                | 14.92      |
| 303 | 6           | 10          | -15        | 18.3             | 14.5                       | 1.0                     | 3.0                        | 1.0                     | 0.90                               | 0.55                | 0.35                | 18.92      |
| 307 | 6           | 10          | -10        | 16.4             | 11.0                       | 1.0                     | 0.0                        | 1.0                     | 0.73                               | 0.46                | 0.27                | 17.00      |
| 311 | 6           | 10          | -5         | 14.0             | 13.5                       | 1.0                     | 0.0                        | 0.8                     | 0.64                               | 0.46                | 0.19                | 14.42      |
| 322 | 6           | 10          | -5         | 14.0             | 9.0                        | 1.0                     | 0.0                        | 0.8                     | 0.57                               | 0.38                | 0.19                | 14.42      |
| 327 | 6           | 10          | 0          | 12.5             | 7.3                        | 1.0                     | 0.0                        | 0.7                     | 0.47                               | 0.33                | 0.15                | 13.46      |
| 331 | 6           | 10          | 5          | 11.6             | 6.9                        | 1.0                     | 0.0                        | 0.6                     | 0.42                               | 0.31                | 0.12                | 12.41      |
| 335 | 6           | 10          | 10         | 11.3             | 11.5                       | 1.0                     | 0.0                        | 0.6                     | 0.49                               | 0.38                | 0.11                | 12.41      |
| 339 | 6           | 10          | 15         | 11.1             | 6.0                        | 1.0                     | 0.0                        | 0.6                     | 0.40                               | 0.28                | 0.11                | 12.32      |
| 367 | 6           | 20          | -15        | 25.0             | 24.0                       | 1.0                     | 2.0                        | 1.0                     | 1.26                               | 0.81                | 0.45                | 23.26      |
| 363 | 6           | 20          | -10        | 18.5             | 18.5                       | 1.0                     | 0.0                        | 0.8                     | 0.86                               | 0.62                | 0.25                | 18.19      |
| 359 | 6           | 20          | -5         | 15.9             | 17.0                       | 1.0                     | 0.0                        | 0.7                     | 0.73                               | 0.55                | 0.19                | 15.89      |
| 343 | 6           | 20          | 0          | 12.0             | 12.0                       | 1.0                     | 0.0                        | 0.5                     | 0.50                               | 0.40                | 0.10                | 11.40      |
| 347 | 6           | 20          | 5          | 9.0              | 10.0                       | 1.0                     | 0.0                        | 0.4                     | 0.38                               | 0.32                | 0.06                | 9.48       |
| 351 | 6           | 20          | 10         | 8.0              | 8.0                        | 1.0                     | 0.0                        | 0.3                     | 0.31                               | 0.27                | 0.04                | 8.05       |
| 355 | 6           | 20          | 15         | 7.0              | 7.5                        | 1.0                     | 0.0                        | 0.3                     | 0.28                               | 0.24                | 0.03                | 7.19       |

\* Indicates model was close to heave stop

TABLE 4.221.1 - WETTED AREA DATA  
20 deg Deadrise, L/R = 0.234, Cv = 1.5

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Wetted Lengths   |                            |                         |                            |                         | Wetted Areas           |                     |                     | SKWL<br>in |       |
|--------|-------------|-------------|------------|------------------|----------------------------|-------------------------|----------------------------|-------------------------|------------------------|---------------------|---------------------|------------|-------|
|        |             |             |            | Keel<br>Lk<br>in | Stbd<br>Chine<br>Lcs<br>in | Stbd<br>Beam<br>Bs<br>: | Port<br>Chine<br>Lcp<br>in | Port<br>Beam<br>Bp<br>: | Total<br>Atot<br>sq.ft | Stbd<br>As<br>sq.ft | Port<br>Ap<br>sq.ft |            |       |
| 2935   | 0           | -10         | -15        |                  |                            |                         |                            |                         |                        |                     |                     |            | 45.95 |
| 2936   | 0           | -10         | -15        |                  |                            |                         |                            |                         |                        |                     |                     |            | 45.91 |
| 2931   | 0           | -10         | -10        | 45.9             | 45.9                       | 0.9                     | 45.9                       | 1.0                     | 2.69                   | 1.27                | 1.42                |            | 45.56 |
| 2927   | 0           | -10         | -5         | 45.9             | 45.9                       | 0.9                     | 45.9                       | 1.0                     | 2.69                   | 1.27                | 1.42                |            | 45.41 |
| 2913   | 0           | -10         | 0          | 45.4             | 37.8                       | 0.8                     | 45.4                       | 1.0                     | 2.50                   | 1.09                | 1.41                |            | 45.40 |
| 2917   | 0           | -10         | 5          | 45.9             | 40.5                       | 0.8                     | 45.9                       | 1.0                     | 2.53                   | 1.11                | 1.42                |            | 45.49 |
| 2921   | 0           | -10         | 10         | 45.9             | 45.9                       | 0.9                     | 45.9                       | 1.0                     | 2.69                   | 1.27                | 1.42                |            | 45.78 |
| 2925 * | 0           | -10         | 15         | 46.8             | 46.8                       | 1.0                     | 46.8                       | 1.0                     | 2.84                   | 1.42                | 1.42                |            | 46.18 |
| 2832 * | 0           | 0           | -15        | 46.8             | 46.8                       | 1.0                     | 46.8                       | 1.0                     | 2.84                   | 1.42                | 1.42                |            | 46.07 |
| 2826   | 0           | 0           | -10        | 46.8             | 40.5                       | 1.0                     | 40.5                       | 1.0                     | 2.80                   | 1.40                | 1.40                |            | 45.66 |
| 2822   | 0           | 0           | -5         | 46.8             | 46.8                       | 1.0                     | 46.8                       | 1.0                     | 2.84                   | 1.42                | 1.42                |            | 45.46 |
| 2799   | 0           | 0           | 0          | 45.6             | 45.6                       | 1.0                     | 45.6                       | 1.0                     | 2.83                   | 1.41                | 1.41                |            | 45.43 |
| 2803   | 0           | 0           | 5          | 45.9             | 43.2                       | 1.0                     | 43.2                       | 1.0                     | 2.81                   | 1.40                | 1.40                |            | 45.52 |
| 2817   | 0           | 0           | 10         | 45.9             | 45.9                       | 1.0                     | 45.9                       | 1.0                     | 2.83                   | 1.42                | 1.42                |            | 45.69 |
| 2860 * | 0           | 10          | -15        | 46.8             | 46.8                       | 1.0                     | 27.9                       | 0.2                     | 1.67                   | 1.42                | 0.25                |            | 46.04 |
| 2856   | 0           | 10          | -10        | 46.3             | 46.3                       | 1.0                     | 18.0                       | 1.0                     | 2.49                   | 1.42                | 1.07                |            | 45.68 |
| 2852   | 0           | 10          | -5         | 45.9             | 45.9                       | 1.0                     | 35.1                       | 1.0                     | 2.75                   | 1.42                | 1.33                |            | 45.39 |
| 2836   | 0           | 10          | 0          | 45.4             | 45.4                       | 1.0                     | 36.0                       | 1.0                     | 2.75                   | 1.41                | 1.34                |            | 45.31 |
| 2840   | 0           | 10          | 5          | 45.6             | 43.2                       | 1.0                     | 36.9                       | 1.0                     | 2.75                   | 1.40                | 1.35                |            | 45.35 |
| 2844   | 0           | 10          | 10         | 45.9             | 45.9                       | 1.0                     | 45.9                       | 1.0                     | 2.83                   | 1.42                | 1.42                |            | 45.47 |
| 2848   | 0           | 10          | 15         | 45.9             | 42.3                       | 1.0                     | 40.5                       | 1.0                     | 2.79                   | 1.40                | 1.39                |            | 45.79 |
| 2849   | 0           | 10          | 15         | 46.3             | 46.3                       | 1.0                     | 46.3                       | 1.0                     | 2.84                   | 1.42                | 1.42                |            | 45.80 |
| 2894 * | 0           | 20          | -15        |                  |                            |                         |                            |                         |                        |                     |                     |            | 45.96 |
| 2890   | 0           | 20          | -10        | 45.9             | 40.5                       | 1.0                     | 0.0                        | 0.2                     | 1.54                   | 1.39                | 0.15                |            | 45.44 |
| 2886   | 0           | 20          | -5         | 45.9             | 40.5                       | 1.0                     | 0.0                        | 0.5                     | 1.77                   | 1.39                | 0.38                |            | 45.15 |
| 2865   | 0           | 20          | 0          | 45.9             | 44.1                       | 1.0                     | 39.6                       | 0.6                     | 2.24                   | 1.41                | 0.83                |            | 45.06 |
| 2869   | 0           | 20          | 5          | 43.2             | 43.2                       | 1.0                     | 30.6                       | 0.4                     | 1.87                   | 1.38                | 0.49                |            | 45.16 |
| 2873   | 0           | 20          | 10         | 45.4             | 43.2                       | 1.0                     | 24.3                       | 0.6                     | 2.09                   | 1.40                | 0.70                |            | 45.24 |
| 2877   | 0           | 20          | 15         | 45.9             | 45.9                       | 1.0                     | 15.3                       | 0.7                     | 2.13                   | 1.42                | 0.71                |            | 45.43 |
| 3073   | 3           | -10         | -15        | 42.8             | 31.0                       | 1.0                     | 36.0                       | 1.0                     | 2.52                   | 1.23                | 1.30                |            | 40.91 |
| 3069   | 3           | -10         | -10        | 42.3             | 28.8                       | 1.0                     | 35.1                       | 1.0                     | 2.46                   | 1.18                | 1.28                |            | 40.25 |
| 3065   | 3           | -10         | -5         | 41.8             | 27.0                       | 1.0                     | 35.1                       | 1.0                     | 2.41                   | 1.14                | 1.27                |            | 40.16 |
| 3048   | 3           | -10         | 0          | 41.8             | 27.0                       | 1.0                     | 30.3                       | 1.0                     | 2.34                   | 1.14                | 1.20                |            | 40.11 |
| 3052   | 3           | -10         | 5          | 42.3             | 27.0                       | 1.0                     | 35.5                       | 1.0                     | 2.44                   | 1.15                | 1.28                |            | 40.47 |
| 3057   | 3           | -10         | 10         | 43.2             | 32.4                       | 1.0                     | 36.9                       | 1.0                     | 2.57                   | 1.25                | 1.32                |            | 41.33 |
| 3060   | 3           | -10         | 15         | 44.5             | 36.5                       | 1.0                     | 39.6                       | 1.0                     | 2.69                   | 1.33                | 1.36                |            | 42.76 |
| 2968   | 3           | 0           | -15        | 42.3             | 34.2                       | 1.0                     | 29.7                       | 1.0                     | 2.46                   | 1.26                | 1.20                |            | 41.97 |
| 2963   | 3           | 0           | -10        | 42.3             | 32.4                       | 1.0                     | 29.7                       | 1.0                     | 2.43                   | 1.24                | 1.20                |            | 41.05 |
| 2959   | 3           | 0           | -5         | 42.3             | 31.9                       | 1.0                     | 31.9                       | 1.0                     | 2.46                   | 1.23                | 1.23                |            | 40.79 |
| 2943   | 3           | 0           | 0          | 41.4             | 32.8                       | 1.0                     | 31.9                       | 1.0                     | 2.45                   | 1.23                | 1.22                |            | 40.88 |
| 2947   | 3           | 0           | 5          | 42.3             | 32.8                       | 1.0                     | 32.8                       | 1.0                     | 2.49                   | 1.24                | 1.24                |            | 41.13 |
| 2951   | 3           | 0           | 10         | 42.3             | 33.3                       | 1.0                     | 33.3                       | 1.0                     | 2.50                   | 1.25                | 1.25                |            | 41.66 |
| 2955   | 3           | 0           | 15         | 43.2             | 36.0                       | 1.0                     | 36.0                       | 1.0                     | 2.61                   | 1.30                | 1.30                |            | 42.67 |

\* Indicates model was close to heave stop

TABLE 4.221.2 - WETTED AREA DATA  
 20 deg Deadrise, L/R = 0.234, Cv = 1.5

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Wetted Lengths   |                            |                         |                            |                         | Wetted Areas           |                     |                     | SKWL<br>in |
|------|-------------|-------------|------------|------------------|----------------------------|-------------------------|----------------------------|-------------------------|------------------------|---------------------|---------------------|------------|
|      |             |             |            | Keel<br>Lk<br>in | Stbd<br>Chine<br>Lca<br>in | Stbd<br>Beam<br>Ba<br>: | Port<br>Chine<br>Lcp<br>in | Port<br>Beam<br>Bp<br>: | Total<br>Atot<br>sq.ft | Stbd<br>As<br>sq.ft | Port<br>Ap<br>sq.ft |            |
| 2985 | 3           | 10          | -15        |                  |                            |                         |                            |                         |                        |                     |                     | 41.78      |
| 2986 | 3           | 10          | -15        | 43.2             | 37.8                       | 1.0                     | 18.0                       | 1.0                     | 2.34                   | 1.33                | 1.02                | 41.82      |
| 2981 | 3           | 10          | -10        | 42.3             | 36.0                       | 1.0                     | 16.2                       | 1.0                     | 2.26                   | 1.29                | 0.97                | 40.87      |
| 2977 | 3           | 10          | -5         | 41.4             | 35.1                       | 1.0                     | 17.1                       | 1.0                     | 2.24                   | 1.26                | 0.97                | 40.47      |
| 2973 | 3           | 10          | 0          | 41.4             | 35.1                       | 1.0                     | 17.1                       | 1.0                     | 2.24                   | 1.26                | 0.97                | 40.34      |
| 2990 | 3           | 10          | 5          | 42.3             | 35.3                       | 1.0                     | 27.0                       | 1.0                     | 2.43                   | 1.28                | 1.15                | 40.65      |
| 2994 | 3           | 10          | 10         | 42.3             | 36.0                       | 1.0                     | 28.8                       | 1.0                     | 2.47                   | 1.29                | 1.18                | 40.96      |
| 2998 | 3           | 10          | 15         | 43.2             | 36.9                       | 1.0                     | 31.5                       | 1.0                     | 2.56                   | 1.32                | 1.24                | 41.70      |
| 3043 | 3           | 20          | -15        | 43.2             | 40.5                       | 1.0                     | 18.0                       | 1.0                     | 2.37                   | 1.35                | 1.02                | 41.11      |
| 3038 | 3           | 20          | -10        | 41.8             | 37.8                       | 1.0                     | 0.0                        | 0.5                     | 1.65                   | 1.31                | 0.35                | 39.91      |
| 3034 | 3           | 20          | -5         | 40.8             | 37.6                       | 1.0                     | 0.0                        | 1.0                     | 1.97                   | 1.29                | 0.68                | 39.25      |
| 3004 | 3           | 20          | 0          | 40.5             | 36.9                       | 1.0                     | 0.0                        | 1.0                     | 1.95                   | 1.27                | 0.67                | 39.35      |
| 3008 | 3           | 20          | 5          | 40.5             | 36.9                       | 1.0                     | 0.0                        | 1.0                     | 1.95                   | 1.27                | 0.67                | 39.46      |
| 3025 | 3           | 20          | 10         | 41.0             | 37.3                       | 1.0                     | 24.3                       | 1.0                     | 2.37                   | 1.29                | 1.09                | 39.71      |
| 3030 | 3           | 20          | 15         | 41.4             | 37.8                       | 1.0                     | 24.8                       | 1.0                     | 2.40                   | 1.30                | 1.10                | 39.91      |
| 3199 | 6           | -10         | -15        | 33.1             | 21.6                       | 1.0                     | 28.6                       | 1.0                     | 1.94                   | 0.91                | 1.03                | 31.26      |
| 3195 | 6           | -10         | -10        | 28.1             | 20.7                       | 1.0                     | 28.2                       | 1.0                     | 1.75                   | 0.81                | 0.94                | 30.78      |
| 3191 | 6           | -10         | -5         | 32.5             | 20.4                       | 1.0                     | 27.9                       | 1.0                     | 1.88                   | 0.88                | 1.00                | 30.78      |
| 3187 | 6           | -10         | 0          | 33.1             | 19.8                       | 1.0                     | 28.2                       | 1.0                     | 1.90                   | 0.88                | 1.02                | 31.16      |
| 3203 | 6           | -10         | 5          | 34.0             | 22.0                       | 1.0                     | 28.9                       | 1.0                     | 1.98                   | 0.93                | 1.05                | 32.21      |
| 3207 | 6           | -10         | 10         |                  |                            |                         |                            |                         |                        |                     |                     | 33.69      |
| 3211 | 6           | -10         | 15         | 36.8             | 15.3                       | 1.0                     | 31.5                       | 1.0                     | 2.00                   | 0.87                | 1.13                | 35.35      |
| 3212 | 6           | -10         | 15         | 37.3             | 15.3                       | 1.0                     | 32.1                       | 1.0                     | 2.03                   | 0.87                | 1.15                | 35.78      |
| 3107 | 6           | 0           | -15        | 34.4             | 25.8                       | 1.0                     | 25.2                       | 1.0                     | 1.99                   | 1.00                | 0.99                | 32.81      |
| 3102 | 6           | 0           | -10        | 34.1             | 25.2                       | 1.0                     | 25.2                       | 1.0                     | 1.97                   | 0.99                | 0.99                | 31.86      |
| 3098 | 6           | 0           | -5         | 33.2             | 24.3                       | 1.0                     | 24.3                       | 1.0                     | 1.91                   | 0.96                | 0.96                | 31.09      |
| 3082 | 6           | 0           | 0          | 28.8             | 24.3                       | 1.0                     | 24.3                       | 1.0                     | 1.77                   | 0.88                | 0.88                | 31.47      |
| 3085 | 6           | 0           | 5          | 34.0             | 25.0                       | 1.0                     | 25.0                       | 1.0                     | 1.96                   | 0.98                | 0.98                | 32.14      |
| 3090 | 6           | 0           | 10         | 34.6             | 26.1                       | 1.0                     | 26.1                       | 1.0                     | 2.02                   | 1.01                | 1.01                | 33.28      |
| 3094 | 6           | 0           | 15         | 36.3             | 27.8                       | 1.0                     | 27.9                       | 1.0                     | 2.13                   | 1.07                | 1.07                | 34.97      |
| 3151 | 6           | 10          | -15        | 34.8             | 29.7                       | 1.0                     | 14.8                       | 1.0                     | 1.90                   | 1.07                | 0.82                | 33.07      |
| 3147 | 6           | 10          | -10        | 33.5             | 28.5                       | 1.0                     | 15.3                       | 1.0                     | 1.84                   | 1.03                | 0.81                | 31.54      |
| 3143 | 6           | 10          | -5         | 32.7             | 27.7                       | 1.0                     | 18.0                       | 1.0                     | 1.85                   | 1.00                | 0.84                | 30.78      |
| 3126 | 6           | 10          | 0          | 32.1             | 27.7                       | 1.0                     | 19.8                       | 1.0                     | 1.86                   | 0.99                | 0.86                | 30.97      |
| 3130 | 6           | 10          | 5          | 32.5             | 27.9                       | 1.0                     | 20.3                       | 1.0                     | 1.88                   | 1.00                | 0.88                | 31.26      |
| 3135 | 6           | 10          | 10         | 33.5             | 28.8                       | 1.0                     | 21.6                       | 1.0                     | 1.95                   | 1.04                | 0.92                | 31.74      |
| 3139 | 6           | 10          | 15         | 34.0             | 29.5                       | 1.0                     | 22.5                       | 1.0                     | 2.00                   | 1.06                | 0.94                | 32.60      |
| 3169 | 6           | 20          | -15        | 34.2             | 32.4                       | 1.0                     | 8.1                        | 1.0                     | 1.81                   | 1.11                | 0.70                | 31.87      |
| 3165 | 6           | 20          | -10        | 33.3             | 31.5                       | 1.0                     | 4.5                        | 1.0                     | 1.71                   | 1.08                | 0.63                | 30.53      |
| 3161 | 6           | 20          | -5         | 31.8             | 31.5                       | 1.0                     | 7.2                        | 1.0                     | 1.70                   | 1.05                | 0.65                | 29.57      |
| 3157 | 6           | 20          | 0          | 31.5             | 31.5                       | 1.0                     | 9.0                        | 1.0                     | 1.72                   | 1.05                | 0.67                | 28.52      |
| 3173 | 6           | 20          | 5          | 31.8             | 31.2                       | 1.0                     | 17.1                       | 1.0                     | 1.86                   | 1.05                | 0.81                | 28.90      |
| 3177 | 6           | 20          | 10         | 31.5             | 30.9                       | 1.0                     | 17.1                       | 1.0                     | 1.85                   | 1.04                | 0.81                | 28.62      |
| 3181 | 6           | 20          | 15         | 31.5             | 30.6                       | 1.0                     | 17.1                       | 1.0                     | 1.84                   | 1.03                | 0.81                | 28.23      |

\* Indicates model was close to heave stop

TABLE 4.223.1 - WETTED AREA DATA  
20 deg Deadrise, L/R = 0.234, Cv = 3

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Wetted Lengths   |                            |                         |                            |                         | Wetted Areas           |                     |                     | SKWL<br>in |
|--------|-------------|-------------|------------|------------------|----------------------------|-------------------------|----------------------------|-------------------------|------------------------|---------------------|---------------------|------------|
|        |             |             |            | Keel<br>Lk<br>in | Stbd<br>Chine<br>Lcs<br>in | Stbd<br>Beam<br>Bs<br>: | Port<br>Chine<br>Lcp<br>in | Port<br>Beam<br>Bp<br>: | Total<br>Atot<br>sq.ft | Stbd<br>As<br>sq.ft | Port<br>Ap<br>sq.ft |            |
| 2937 * | 0           | -10         | -15        | 46.8             | 46.8                       | 1.0                     | 46.8                       | 1.0                     | 2.84                   | 1.42                | 1.42                | 46.04      |
| 2939 * | 0           | -10         | -15        | 46.8             | 46.8                       | 1.0                     | 46.8                       | 1.0                     | 2.84                   | 1.42                | 1.42                | 46.04      |
| 2932   | 0           | -10         | -10        | 45.9             | 45.9                       | 1.0                     | 45.9                       | 1.0                     | 2.83                   | 1.42                | 1.42                | 45.48      |
| 2928   | 0           | -10         | -5         | 45.4             | 45.4                       | 1.0                     | 45.4                       | 1.0                     | 2.82                   | 1.41                | 1.41                | 45.24      |
| 2914   | 0           | -10         | 0          | 45.4             | 37.8                       | 0.8                     | 45.4                       | 1.0                     | 2.50                   | 1.09                | 1.41                | 45.25      |
| 2918   | 0           | -10         | 5          | 45.9             | 45.9                       | 0.9                     | 45.9                       | 1.0                     | 2.69                   | 1.27                | 1.42                | 45.62      |
| 2922 * | 0           | -10         | 10         | 46.8             | 46.8                       | 1.0                     | 46.8                       | 1.0                     | 2.84                   | 1.42                | 1.42                | 46.14      |
| 2833 * | 0           | 0           | -15        | 46.8             | 46.8                       | 1.0                     | 42.3                       | 0.4                     | 1.98                   | 1.42                | 0.56                | 45.99      |
| 2828   | 0           | 0           | -10        | 46.8             | 46.8                       | 1.0                     | 46.8                       | 1.0                     | 2.84                   | 1.42                | 1.42                | 45.74      |
| 2823   | 0           | 0           | -5         | 45.0             | 45.0                       | 1.0                     | 45.0                       | 0.4                     | 1.97                   | 1.41                | 0.56                | 45.26      |
| 2800   | 0           | 0           | 0          | 45.6             | 45.6                       | 1.0                     | 45.6                       | 1.0                     | 2.83                   | 1.41                | 1.41                | 45.29      |
| 2804   | 0           | 0           | 5          | 45.9             | 43.2                       | 1.0                     | 43.2                       | 1.0                     | 2.81                   | 1.40                | 1.40                | 45.48      |
| 2818 * | 0           | 0           | 10         | 46.8             | 46.8                       | 1.0                     | 46.8                       | 1.0                     | 2.84                   | 1.42                | 1.42                | 46.10      |
| 2857   | 0           | 10          | -10        | 46.8             | 46.8                       | 1.0                     | 24.3                       | 0.5                     | 2.01                   | 1.42                | 0.59                | 45.70      |
| 2853   | 0           | 10          | -5         | 45.4             | 43.2                       | 1.0                     | 33.3                       | 1.0                     | 2.70                   | 1.40                | 1.30                | 45.23      |
| 2837   | 0           | 10          | 0          | 45.4             | 42.3                       | 1.0                     | 34.2                       | 1.0                     | 2.71                   | 1.39                | 1.31                | 45.15      |
| 2841   | 0           | 10          | 5          | 45.4             | 43.2                       | 1.0                     | 35.1                       | 1.0                     | 2.73                   | 1.40                | 1.33                | 45.20      |
| 2845   | 0           | 10          | 10         | 45.4             | 40.5                       | 1.0                     | 40.5                       | 1.0                     | 2.76                   | 1.38                | 1.38                | 45.27      |
| 2850 * | 0           | 10          | 15         | 46.3             | 46.3                       | 1.0                     | 46.3                       | 1.0                     | 2.84                   | 1.42                | 1.42                | 46.12      |
| 2896 * | 0           | 20          | -15        | 46.8             | 46.8                       | 1.0                     | 0.0                        | 0.1                     | 1.50                   | 1.42                | 0.08                | 45.89      |
| 2892   | 0           | 20          | -10        | 45.9             | 44.1                       | 1.0                     | 0.0                        | 0.1                     | 1.49                   | 1.41                | 0.08                | 45.35      |
| 2887   | 0           | 20          | -5         | 45.9             | 40.5                       | 1.0                     | 0.0                        | 0.5                     | 1.77                   | 1.39                | 0.38                | 45.02      |
| 2866   | 0           | 20          | 0          | 44.1             | 42.3                       | 1.0                     | 36.0                       | 0.6                     | 2.17                   | 1.38                | 0.79                | 44.91      |
| 2870   | 0           | 20          | 5          | 44.1             | 42.3                       | 1.0                     | 25.2                       | 1.0                     | 2.53                   | 1.38                | 1.15                | 44.91      |
| 2874   | 0           | 20          | 10         | 44.1             | 40.5                       | 1.0                     | 25.2                       | 1.0                     | 2.52                   | 1.37                | 1.15                | 43.65      |
| 2878   | 0           | 20          | 15         | 43.2             | 38.7                       | 1.0                     | 17.1                       | 1.0                     | 2.34                   | 1.34                | 1.00                | 42.07      |
| 2883   | 0           | 20          | 15         | 43.2             | 38.7                       | 1.0                     | 0.0                        | 0.8                     | 1.91                   | 1.34                | 0.57                | 42.12      |
| 3074   | 3           | -10         | -15        | 37.7             | 17.1                       | 1.0                     | 28.8                       | 1.0                     | 2.02                   | 0.91                | 1.11                | 35.57      |
| 3070   | 3           | -10         | -10        | 37.7             | 18.0                       | 1.0                     | 29.6                       | 1.0                     | 2.04                   | 0.93                | 1.12                | 36.32      |
| 3066   | 3           | -10         | -5         | 39.0             | 19.8                       | 1.0                     | 30.9                       | 1.0                     | 2.14                   | 0.98                | 1.16                | 37.12      |
| 3049   | 3           | -10         | 0          | 39.6             | 21.6                       | 1.0                     | 31.8                       | 1.0                     | 2.20                   | 1.02                | 1.19                | 38.01      |
| 3053   | 3           | -10         | 5          |                  |                            |                         |                            |                         |                        |                     |                     | 39.18      |
| 3054   | 3           | -10         | 5          | 40.8             | 23.4                       | 1.0                     | 33.3                       | 1.0                     | 2.29                   | 1.07                | 1.23                | 39.18      |
| 3058   | 3           | -10         | 10         | 42.8             | 29.7                       | 1.0                     | 36.8                       | 1.0                     | 2.51                   | 1.20                | 1.31                | 41.33      |
| 3062 * | 3           | -10         | 15         | 45.0             | 37.8                       | 1.0                     | 42.3                       | 1.0                     | 2.74                   | 1.35                | 1.39                | 44.49      |
| 2969   | 3           | 0           | -15        | 42.3             | 33.3                       | 1.0                     | 29.7                       | 1.0                     | 2.45                   | 1.25                | 1.20                | 41.21      |
| 2964   | 3           | 0           | -10        | 41.4             | 29.7                       | 1.0                     | 27.9                       | 1.0                     | 2.33                   | 1.18                | 1.15                | 39.26      |
| 2960   | 3           | 0           | -5         | 38.7             | 27.0                       | 1.0                     | 26.1                       | 1.0                     | 2.17                   | 1.09                | 1.08                | 38.52      |
| 2944   | 3           | 0           | 0          | 38.7             | 27.9                       | 1.0                     | 26.5                       | 1.0                     | 2.19                   | 1.11                | 1.08                | 38.69      |
| 2948   | 3           | 0           | 5          | 39.1             | 27.0                       | 1.0                     | 27.0                       | 1.0                     | 2.20                   | 1.10                | 1.10                | 38.90      |
| 2953   | 3           | 0           | 10         | 40.5             | 29.7                       | 1.0                     | 28.8                       | 1.0                     | 2.32                   | 1.17                | 1.15                | 39.85      |
| 2956   | 3           | 0           | 15         | 42.3             | 34.2                       | 1.0                     | 34.2                       | 1.0                     | 2.53                   | 1.26                | 1.26                | 42.12      |

\* Indicates model was close to heave stop

TABLE 4.223.2 - WETTED AREA DATA  
20 deg Deadrise, L/R = 0.234, Cv = 3

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Wetted Lengths   |                            |                         |                            |                         | Wetted Areas           |                     |                     | SKWL<br>in |
|------|-------------|-------------|------------|------------------|----------------------------|-------------------------|----------------------------|-------------------------|------------------------|---------------------|---------------------|------------|
|      |             |             |            | Keel<br>Lk<br>in | Stbd<br>Chine<br>Lcs<br>in | Stbd<br>Beam<br>Bs<br>: | Port<br>Chine<br>Lcp<br>in | Port<br>Beam<br>Bp<br>: | Total<br>Atot<br>sq.ft | Stbd<br>As<br>sq.ft | Port<br>Ap<br>sq.ft |            |
| 2987 | 3           | 10          | -15        | 43.6             | 32.4                       | 1.0                     | 0.0                        | 0.2                     | 1.40                   | 1.26                | 0.15                | 38.19      |
| 2982 | 3           | 10          | -10        | 40.5             | 34.2                       | 1.0                     | 13.5                       | 1.0                     | 2.13                   | 1.24                | 0.90                | 39.38      |
| 2978 | 3           | 10          | -5         | 38.0             | 31.9                       | 1.0                     | 18.0                       | 1.0                     | 2.09                   | 1.16                | 0.93                | 38.19      |
| 2974 | 3           | 10          | 0          | 36.9             | 30.6                       | 1.0                     | 18.0                       | 1.0                     | 2.03                   | 1.12                | 0.91                | 37.26      |
| 2991 | 3           | 10          | 5          | 36.5             | 28.1                       | 1.0                     | 14.4                       | 1.0                     | 1.92                   | 1.07                | 0.85                | 36.16      |
| 2995 | 3           | 10          | 10         | 35.6             | 27.6                       | 1.0                     | 13.5                       | 1.0                     | 1.87                   | 1.05                | 0.82                | 35.39      |
| 2999 | 3           | 10          | 15         | 35.5             | 26.1                       | 1.0                     | 12.6                       | 1.0                     | 1.82                   | 1.02                | 0.80                | 35.19      |
| 3044 | 3           | 20          | -15        | 40.5             | 36.0                       | 1.0                     | 9.0                        | 1.0                     | 2.09                   | 1.26                | 0.82                | 38.29      |
| 3039 | 3           | 20          | -10        | 39.1             | 36.0                       | 1.0                     | 0.0                        | 0.5                     | 1.57                   | 1.24                | 0.33                | 38.05      |
| 3035 | 3           | 20          | -5         | 37.8             | 34.8                       | 1.0                     | 0.0                        | 1.0                     | 1.83                   | 1.20                | 0.63                | 36.47      |
| 3005 | 3           | 20          | 0          | 36.9             | 33.3                       | 1.0                     | 9.0                        | 1.0                     | 1.93                   | 1.16                | 0.76                | 35.72      |
| 3009 | 3           | 20          | 5          | 32.8             | 31.0                       | 1.0                     | 8.1                        | 1.0                     | 1.74                   | 1.06                | 0.68                | 31.34      |
| 3026 | 3           | 20          | 10         | 27.2             | 27.9                       | 1.0                     | 1.8                        | 1.0                     | 1.40                   | 0.92                | 0.48                | 26.18      |
| 3031 | 3           | 20          | 15         | 24.0             | 25.6                       | 1.0                     | 0.0                        | 1.0                     | 1.22                   | 0.82                | 0.40                | 21.97      |
| 3200 | 6           | -10         | -15        | 17.9             | 5.4                        | 1.0                     | 13.5                       | 1.0                     | 0.91                   | 0.39                | 0.52                | 16.91      |
| 3196 | 6           | -10         | -10        | 19.6             | 7.2                        | 1.0                     | 15.3                       | 1.0                     | 1.03                   | 0.45                | 0.58                | 18.53      |
| 3192 | 6           | -10         | -5         | 22.4             | 9.9                        | 1.0                     | 17.5                       | 1.0                     | 1.20                   | 0.54                | 0.66                | 20.54      |
| 3188 | 6           | -10         | 0          | 24.1             | 11.7                       | 1.0                     | 19.4                       | 1.0                     | 1.32                   | 0.60                | 0.72                | 22.65      |
| 3204 | 6           | -10         | 5          | 26.3             | 13.5                       | 1.0                     | 21.5                       | 1.0                     | 1.46                   | 0.66                | 0.80                | 24.75      |
| 3208 | 6           | -10         | 10         |                  |                            |                         |                            |                         |                        |                     |                     | 28.20      |
| 3213 | 6           | -10         | 15         |                  |                            |                         |                            |                         |                        |                     |                     | 35.47      |
| 3108 | 6           | 0           | -15        | 22.7             | 14.4                       | 1.0                     | 13.5                       | 1.0                     | 1.22                   | 0.62                | 0.60                | 21.24      |
| 3103 | 6           | 0           | -10        | 21.8             | 13.5                       | 1.0                     | 12.6                       | 1.0                     | 1.16                   | 0.59                | 0.57                | 20.28      |
| 3104 | 6           | 0           | -10        | 21.8             | 12.6                       | 1.0                     | 12.6                       | 1.0                     | 1.14                   | 0.57                | 0.57                | 19.99      |
| 3099 | 6           | 0           | -5         | 21.3             | 12.6                       | 1.0                     | 11.7                       | 1.0                     | 1.11                   | 0.56                | 0.55                | 19.52      |
| 3081 | 6           | 0           | 0          | 22.5             | 13.5                       | 1.0                     | 13.5                       | 1.0                     | 1.20                   | 0.60                | 0.60                | 20.66      |
| 3086 | 6           | 0           | 5          | 22.8             | 12.6                       | 1.0                     | 13.3                       | 1.0                     | 1.19                   | 0.59                | 0.60                | 20.95      |
| 3091 | 6           | 0           | 10         | 23.6             | 14.2                       | 1.0                     | 14.2                       | 1.0                     | 1.26                   | 0.63                | 0.63                | 21.81      |
| 3095 | 6           | 0           | 15         | 26.7             | 18.0                       | 1.0                     | 18.0                       | 1.0                     | 1.49                   | 0.74                | 0.74                | 25.26      |
| 3152 | 6           | 10          | -15        | 27.0             | 22.9                       | 1.0                     | 11.7                       | 1.0                     | 1.47                   | 0.83                | 0.64                | 25.42      |
| 3148 | 6           | 10          | -10        | 24.6             | 20.7                       | 1.0                     | 10.8                       | 1.0                     | 1.34                   | 0.75                | 0.59                | 22.65      |
| 3144 | 6           | 10          | -5         | 26.7             | 18.0                       | 1.0                     | 9.0                        | 1.0                     | 1.34                   | 0.74                | 0.59                | 20.16      |
| 3127 | 6           | 10          | 0          | 18.9             | 14.6                       | 1.0                     | 6.3                        | 1.0                     | 0.98                   | 0.56                | 0.42                | 18.73      |
| 3131 | 6           | 10          | 5          | 17.8             | 13.0                       | 1.0                     | 4.9                        | 1.0                     | 0.89                   | 0.51                | 0.38                | 16.72      |
| 3136 | 6           | 10          | 10         | 16.5             | 11.7                       | 1.0                     | 4.3                        | 1.0                     | 0.81                   | 0.47                | 0.35                | 15.76      |
| 3140 | 6           | 10          | 15         | 15.0             | 10.1                       | 1.0                     | 2.3                        | 1.0                     | 0.71                   | 0.42                | 0.29                | 14.32      |
| 3170 | 6           | 20          | -15        | 29.9             | 29.6                       | 1.0                     | 8.1                        | 1.0                     | 1.62                   | 0.99                | 0.63                | 27.37      |
| 3166 | 6           | 20          | -10        | 25.8             | 26.3                       | 1.0                     | 6.3                        | 1.0                     | 1.40                   | 0.87                | 0.53                | 23.07      |
| 3162 | 6           | 20          | -5         | 22.9             | 22.9                       | 1.0                     | 7.2                        | 1.0                     | 1.26                   | 0.76                | 0.50                | 20.67      |
| 3158 | 6           | 20          | 0          | 20.7             | 20.7                       | 1.0                     | 5.4                        | 1.0                     | 1.12                   | 0.69                | 0.43                | 18.38      |
| 3174 | 6           | 20          | 5          | 16.2             | 16.5                       | 1.0                     | 1.8                        | 1.0                     | 0.84                   | 0.54                | 0.30                | 14.27      |
| 3178 | 6           | 20          | 10         | 14.1             | 14.1                       | 1.0                     | 0.0                        | 0.9                     | 0.68                   | 0.47                | 0.21                | 11.68      |
| 3182 | 6           | 20          | 15         | 12.6             | 13.5                       | 1.0                     | 0.0                        | 0.8                     | 0.60                   | 0.43                | 0.17                | 10.53      |

\* Indicates model was close to heave stop



TABLE 4.224.1 - WETTED AREA DATA  
 20 deg Deadrise, L/R = 0.234, Cv = 4

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Wetted Lengths   |                            |                         |                            |                         | Wetted Areas           |                     |                     | SKWL<br>in |
|--------|-------------|-------------|------------|------------------|----------------------------|-------------------------|----------------------------|-------------------------|------------------------|---------------------|---------------------|------------|
|        |             |             |            | Keel<br>Lk<br>in | Stbd<br>Chine<br>Lcs<br>in | Stbd<br>Beam<br>Bs<br>: | Port<br>Chine<br>Lcp<br>in | Port<br>Beam<br>Bp<br>: | Total<br>Atot<br>sq.ft | Stbd<br>As<br>sq.ft | Port<br>Ap<br>sq.ft |            |
| 2933   | 0           | -10         | -10        | 45.9             | 45.9                       | 1.0                     | 45.9                       | 1.0                     | 2.83                   | 1.42                | 1.42                | 45.48      |
| 2929   | 0           | -10         | -5         | 45.4             | 45.9                       | 0.9                     | 45.4                       | 1.0                     | 2.69                   | 1.27                | 1.41                | 45.26      |
| 2915   | 0           | -10         | 0          | 45.4             | 18.0                       | 0.6                     | 41.4                       | 0.6                     | 1.47                   | 0.63                | 0.83                | 45.23      |
| 2919   | 0           | -10         | 5          | 46.3             | 45.9                       | 0.8                     | 45.9                       | 1.0                     | 2.55                   | 1.13                | 1.42                | 45.79      |
| 2829   | 0           | 0           | -10        |                  |                            |                         |                            |                         |                        |                     |                     | 45.74      |
| 2824   | 0           | 0           | -5         | 45.4             | 40.5                       | 1.0                     | 37.8                       | 1.0                     | 2.74                   | 1.38                | 1.36                | 45.27      |
| 2801   | 0           | 0           | 0          | 45.0             | 45.0                       | 1.0                     | 43.2                       | 1.0                     | 2.80                   | 1.41                | 1.40                | 45.24      |
| 2805   | 0           | 0           | 5          | 45.9             | 43.2                       | 1.0                     | 43.2                       | 1.0                     | 2.81                   | 1.40                | 1.40                | 45.50      |
| 2820 * | 0           | 0           | 10         |                  |                            |                         |                            |                         |                        |                     |                     | 46.08      |
| 2858   | 0           | 10          | -10        | 45.9             | 45.9                       | 1.0                     | 39.6                       | 0.3                     | 1.83                   | 1.42                | 0.41                | 45.62      |
| 2854   | 0           | 10          | -5         | 45.4             | 43.2                       | 1.0                     | 31.5                       | 1.0                     | 2.68                   | 1.40                | 1.28                | 45.26      |
| 2838   | 0           | 10          | 0          | 45.2             | 42.3                       | 1.0                     | 34.2                       | 1.0                     | 2.70                   | 1.39                | 1.31                | 45.16      |
| 2842   | 0           | 10          | 5          | 45.2             | 41.8                       | 1.0                     | 34.2                       | 1.0                     | 2.70                   | 1.39                | 1.31                | 45.11      |
| 2846   | 0           | 10          | 10         | 43.2             | 38.7                       | 1.0                     | 28.8                       | 1.0                     | 2.53                   | 1.34                | 1.20                | 44.32      |
| 2893   | 0           | 20          | -10        | 45.9             | 44.1                       | 1.0                     | 0.0                        | 0.1                     | 1.49                   | 1.41                | 0.08                | 45.30      |
| 2888   | 0           | 20          | -5         |                  |                            |                         |                            |                         |                        |                     |                     | 45.05      |
| 2867   | 0           | 20          | 0          | 44.1             | 42.3                       | 1.0                     | 35.1                       | 0.7                     | 2.29                   | 1.38                | 0.91                | 44.95      |
| 2871   | 0           | 20          | 5          | 44.1             | 41.4                       | 1.0                     | 27.0                       | 1.0                     | 2.55                   | 1.37                | 1.18                | 44.20      |
| 2875   | 0           | 20          | 10         | 42.3             | 38.3                       | 1.0                     | 0.0                        | 0.8                     | 1.88                   | 1.32                | 0.56                | 41.45      |
| 2879   | 0           | 20          | 15         | 39.6             | 36.0                       | 1.0                     | 0.0                        | 0.5                     | 1.58                   | 1.25                | 0.33                | 39.63      |
| 2884   | 0           | 20          | 15         | 40.5             | 36.0                       | 1.0                     | 0.0                        | 0.5                     | 1.60                   | 1.26                | 0.34                | 39.63      |
| 3075   | 3           | -10         | -15        | 35.3             | 12.6                       | 1.0                     | 25.2                       | 1.0                     | 1.80                   | 0.80                | 1.01                | 33.18      |
| 3071   | 3           | -10         | -10        | 36.2             | 15.3                       | 1.0                     | 27.3                       | 1.0                     | 1.91                   | 0.86                | 1.06                | 34.68      |
| 3067   | 3           | -10         | -5         | 37.8             | 16.2                       | 1.0                     | 28.8                       | 1.0                     | 2.00                   | 0.90                | 1.11                | 35.92      |
| 3050   | 3           | -10         | 0          | 38.9             | 18.0                       | 1.0                     | 30.5                       | 1.0                     | 2.10                   | 0.95                | 1.15                | 37.32      |
| 3055   | 3           | -10         | 5          | 40.1             | 22.5                       | 1.0                     | 32.4                       | 1.0                     | 2.24                   | 1.04                | 1.20                | 38.76      |
| 3059   | 3           | -10         | 10         | 42.3             | 29.3                       | 1.0                     | 36.2                       | 1.0                     | 2.48                   | 1.19                | 1.29                | 41.54      |
| 2970   | 3           | 0           | -15        | 42.3             | 33.3                       | 1.0                     | 29.3                       | 1.0                     | 2.44                   | 1.25                | 1.19                | 41.00      |
| 2965   | 3           | 0           | -10        | 43.6             | 27.9                       | 1.0                     | 25.2                       | 1.0                     | 2.33                   | 1.19                | 1.14                | 38.74      |
| 2961   | 3           | 0           | -5         | 37.8             | 25.2                       | 1.0                     | 23.8                       | 1.0                     | 2.07                   | 1.05                | 1.02                | 37.76      |
| 2945   | 3           | 0           | 0          | 38.3             | 24.3                       | 1.0                     | 24.3                       | 1.0                     | 2.08                   | 1.04                | 1.04                | 37.76      |
| 2949   | 3           | 0           | 5          | 38.7             | 25.2                       | 1.0                     | 25.2                       | 1.0                     | 2.12                   | 1.06                | 1.06                | 37.95      |
| 2952   | 3           | 0           | 10         | 39.1             | 26.1                       | 1.0                     | 26.1                       | 1.0                     | 2.17                   | 1.08                | 1.08                | 38.74      |
| 2957   | 3           | 0           | 15         | 42.3             | 32.4                       | 1.0                     | 32.4                       | 1.0                     | 2.48                   | 1.24                | 1.24                | 41.50      |

\* Indicates model was close to heave stop

TABLE 4.224.2 - WETTED AREA DATA  
20 deg Deadrise, L/R = 0.234, Cv = 4

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Wetted Lengths   |                            |                         |                            |                         | Wetted Areas           |                     |                     | SKWL<br>in |
|------|-------------|-------------|------------|------------------|----------------------------|-------------------------|----------------------------|-------------------------|------------------------|---------------------|---------------------|------------|
|      |             |             |            | Keel<br>Lk<br>in | Stbd<br>Chine<br>Lcs<br>in | Stbd<br>Beam<br>Bs<br>: | Port<br>Chine<br>Lcp<br>in | Port<br>Beam<br>Bp<br>: | Total<br>Atot<br>sq.ft | Stbd<br>As<br>sq.ft | Port<br>Ap<br>sq.ft |            |
| 2988 | 3           | 10          | -15        | 37.8             | 30.6                       | 1.0                     | 13.5                       | 1.0                     | 1.99                   | 1.14                | 0.85                | 36.77      |
| 2983 | 3           | 10          | -10        | 40.0             | 33.8                       | 1.0                     | 15.3                       | 1.0                     | 2.14                   | 1.22                | 0.92                | 39.38      |
| 2979 | 3           | 10          | -5         | 36.9             | 31.0                       | 1.0                     | 16.2                       | 1.0                     | 2.01                   | 1.13                | 0.88                | 37.52      |
| 2975 | 3           | 10          | 0          | 35.5             | 27.9                       | 1.0                     | 13.5                       | 1.0                     | 1.87                   | 1.05                | 0.81                | 35.48      |
| 2992 | 3           | 10          | 5          | 33.4             | 22.5                       | 1.0                     | 7.2                        | 1.0                     | 1.60                   | 0.93                | 0.68                | 31.66      |
| 2996 | 3           | 10          | 10         | 31.0             | 20.2                       | 1.0                     | 6.3                        | 1.0                     | 1.47                   | 0.85                | 0.62                | 29.18      |
| 3000 | 3           | 10          | 15         | 26.5             | 17.1                       | 1.0                     | 0.0                        | 0.8                     | 1.08                   | 0.73                | 0.35                | 27.08      |
| 3045 | 3           | 20          | -15        | 40.5             | 35.1                       | 1.0                     | 0.0                        | 1.0                     | 1.92                   | 1.25                | 0.67                | 36.70      |
| 3040 | 3           | 20          | -10        | 38.7             | 35.3                       | 1.0                     | 0.0                        | 0.3                     | 1.42                   | 1.22                | 0.19                | 37.67      |
| 3041 | 3           | 20          | -10        | 39.1             | 35.1                       | 1.0                     | 0.0                        | 0.3                     | 1.42                   | 1.23                | 0.20                | 37.67      |
| 3036 | 3           | 20          | -5         | 37.3             | 34.0                       | 1.0                     | 4.5                        | 1.0                     | 1.88                   | 1.18                | 0.70                | 36.23      |
| 3006 | 3           | 20          | 0          | 33.7             | 31.5                       | 1.0                     | 6.3                        | 1.0                     | 1.75                   | 1.08                | 0.67                | 32.67      |
| 3010 | 3           | 20          | 5          | 25.6             | 26.1                       | 1.0                     | 0.0                        | 1.0                     | 1.29                   | 0.86                | 0.43                | 23.69      |
| 3027 | 3           | 20          | 10         | 20.9             | 21.8                       | 1.0                     | 0.0                        | 0.7                     | 0.95                   | 0.71                | 0.24                | 19.30      |
| 3028 | 3           | 20          | 10         | 20.6             | 21.0                       | 1.0                     | 0.0                        | 0.7                     | 0.93                   | 0.69                | 0.24                | 18.73      |
| 3032 | 3           | 20          | 15         | 18.4             | 18.9                       | 1.0                     | 0.0                        | 0.7                     | 0.83                   | 0.62                | 0.21                | 16.05      |
| 3201 | 6           | -10         | -15        | 13.9             | 0.9                        | 1.0                     | 9.0                        | 1.0                     | 0.63                   | 0.25                | 0.38                | 13.08      |
| 3197 | 6           | -10         | -10        | 15.9             | 2.7                        | 1.0                     | 10.9                       | 1.0                     | 0.76                   | 0.31                | 0.45                | 14.61      |
| 3193 | 6           | -10         | -5         | 17.1             | 4.5                        | 1.0                     | 11.7                       | 1.0                     | 0.84                   | 0.36                | 0.48                | 15.95      |
| 3189 | 6           | -10         | 0          | 20.1             | 6.3                        | 1.0                     | 15.0                       | 1.0                     | 1.02                   | 0.44                | 0.58                | 18.63      |
| 3205 | 6           | -10         | 5          | 22.4             | 9.0                        | 1.0                     | 17.4                       | 1.0                     | 1.18                   | 0.52                | 0.66                | 20.73      |
| 3209 | 6           | -10         | 10         | 24.6             | 10.8                       | 1.0                     | 19.3                       | 1.0                     | 1.32                   | 0.59                | 0.73                | 23.13      |
| 3109 | 6           | 0           | -15        | 16.9             | 7.9                        | 1.0                     | 7.2                        | 1.0                     | 0.81                   | 0.41                | 0.40                | 15.79      |
| 3105 | 6           | 0           | -10        | 16.4             | 8.1                        | 1.0                     | 7.2                        | 1.0                     | 0.80                   | 0.41                | 0.39                | 15.12      |
| 3100 | 6           | 0           | -5         | 16.1             | 15.3                       | 1.0                     | 15.3                       | 1.0                     | 1.04                   | 0.52                | 0.52                | 14.83      |
| 3083 | 6           | 0           | 0          | 14.7             | 6.1                        | 1.0                     | 6.1                        | 1.0                     | 0.69                   | 0.35                | 0.35                | 14.92      |
| 3087 | 6           | 0           | 5          | 16.2             | 7.0                        | 1.0                     | 7.0                        | 1.0                     | 0.77                   | 0.39                | 0.39                | 15.50      |
| 3092 | 6           | 0           | 10         | 17.3             | 16.6                       | 1.0                     | 16.6                       | 1.0                     | 1.13                   | 0.56                | 0.56                | 16.45      |
| 3096 | 6           | 0           | 15         | 9.3              | 1.8                        | 1.0                     | 0.9                        | 1.0                     | 0.35                   | 0.18                | 0.17                | 10.43      |
| 3153 | 6           | 10          | -15        | 22.9             | 18.9                       | 1.0                     | 9.3                        | 1.0                     | 1.23                   | 0.70                | 0.54                | 21.31      |
| 3149 | 6           | 10          | -10        | 19.4             | 14.4                       | 1.0                     | 6.3                        | 1.0                     | 0.99                   | 0.56                | 0.43                | 17.77      |
| 3145 | 6           | 10          | -5         | 16.0             | 11.7                       | 1.0                     | 3.6                        | 1.0                     | 0.79                   | 0.46                | 0.33                | 14.99      |
| 3128 | 6           | 10          | 0          | 14.4             | 9.9                        | 1.0                     | 0.9                        | 1.0                     | 0.66                   | 0.40                | 0.25                | 13.85      |
| 3132 | 6           | 10          | 5          | 13.6             | 9.0                        | 1.0                     | 0.0                        | 1.0                     | 0.60                   | 0.38                | 0.23                | 13.08      |
| 3137 | 6           | 10          | 10         | 12.3             | 8.1                        | 1.0                     | 0.0                        | 1.0                     | 0.54                   | 0.34                | 0.20                | 12.22      |
| 3141 | 6           | 10          | 15         | 11.9             | 7.2                        | 1.0                     | 0.0                        | 1.0                     | 0.52                   | 0.32                | 0.20                | 11.84      |
| 3171 | 6           | 20          | -15        | 28.3             | 28.1                       | 1.0                     | 6.3                        | 1.0                     | 1.51                   | 0.94                | 0.58                | 25.65      |
| 3167 | 6           | 20          | -10        | 22.0             | 22.0                       | 1.0                     | 4.5                        | 1.0                     | 1.17                   | 0.73                | 0.44                | 19.43      |
| 3163 | 6           | 20          | -5         | 18.0             | 18.2                       | 1.0                     | 0.0                        | 1.0                     | 0.90                   | 0.60                | 0.30                | 15.99      |
| 3159 | 6           | 20          | 0          | 15.3             | 15.3                       | 1.0                     | 0.0                        | 0.9                     | 0.74                   | 0.51                | 0.23                | 12.83      |
| 3175 | 6           | 20          | 5          | 10.5             | 10.8                       | 1.0                     | 0.0                        | 0.6                     | 0.46                   | 0.35                | 0.10                | 9.10       |
| 3179 | 6           | 20          | 10         | 9.9              | 10.2                       | 1.0                     | 0.0                        | 0.6                     | 0.43                   | 0.33                | 0.10                | 7.95       |
| 3183 | 6           | 20          | 15         | 8.6              | 9.0                        | 1.0                     | 0.0                        | 0.6                     | 0.38                   | 0.29                | 0.09                | 7.28       |

\* Indicates model was close to heave stop

TABLE 5.100.1 - STABILITY DATA IN WIND AXES WITHOUT AIR TARES

10 deg Deadrise, L/R = 0.000, Cv = 0

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 2112 | -2          | -10         | 0          | 0            | 0.04    | -0.02   | 11.49   | 0.58       | 1.03       | 0.00       | 2.60        | 0.70     |
| 2116 | -2          | -10         | 5          | 0            | 0.04    | -0.04   | 11.49   | 0.50       | 1.08       | 0.02       | 2.57        | 0.73     |
| 2120 | -2          | -10         | 10         | 0            | 0.02    | -0.04   | 11.49   | 0.41       | 1.09       | -0.01      | 2.57        | 0.73     |
| 2122 | -2          | -10         | 15         | 0            | 0.02    | -0.10   | 11.49   | 0.26       | 1.16       | -0.01      | 2.57        | 0.73     |
| 2059 | -2          | 0           | 0          | 0            | 0.04    | -0.07   | 11.49   | 0.02       | 1.44       | 0.01       | 2.63        | 0.73     |
| 2065 | -2          | 0           | 5          | 0            | 0.04    | -0.08   | 11.49   | -0.13      | 1.39       | 0.02       | 2.59        | 0.77     |
| 2069 | -2          | 0           | 10         | 0            | 0.03    | -0.07   | 11.49   | -0.21      | 1.32       | -0.01      | 2.59        | 0.77     |
| 2070 | -2          | 0           | 15         | 0            | 0.02    | -0.09   | 11.49   | -0.36      | 1.30       | 0.00       | 2.61        | 0.75     |
| 2074 | -2          | 10          | 0          | 0            | 0.04    | -0.05   | 11.49   | -0.54      | 0.85       | 0.03       | 2.62        | 0.68     |
| 2078 | -2          | 10          | 5          | 0            | 0.04    | -0.03   | 11.49   | -0.59      | 0.83       | 0.01       | 2.61        | 0.69     |
| 2081 | -2          | 10          | 10         | 0            | -0.00   | -0.08   | 11.49   | -0.74      | 0.73       | 0.00       | 2.60        | 0.70     |
| 2083 | -2          | 10          | 15         | 0            | -0.00   | -0.08   | 11.49   | -0.80      | 0.68       | -0.02      | 2.60        | 0.70     |
| 2090 | -2          | 20          | 0          | 0            | 0.00    | -0.01   | 11.49   | -0.70      | 0.26       | 0.03       | 2.64        | 0.47     |
| 2094 | -2          | 20          | 5          | 0            | 0.02    | -0.09   | 11.49   | -0.82      | 0.28       | 0.01       | 2.61        | 0.50     |
| 2098 | -2          | 20          | 10         | 0            | 0.03    | -0.10   | 11.49   | -0.79      | 0.18       | 0.01       | 2.57        | 0.54     |
| 2108 | -2          | 20          | 12         | 0            | 0.02    | -0.08   | 11.49   | -0.79      | 0.16       | 0.01       | 2.61        | 0.50     |
| 2101 | -2          | 20          | 15         | 0            | 0.01    | -0.08   | 11.49   | -0.81      | 0.08       | 0.00       | 2.59        | 0.52     |
| 1829 | 0           | -10         | 0          | 0            | 0.00    | -0.02   | 11.49   | 0.58       | -3.40      | 0.02       | 2.65        | 1.34     |
| 1833 | 0           | -10         | 5          | 0            | -0.01   | -0.01   | 11.49   | 0.88       | -3.36      | 0.02       | 2.65        | 1.34     |
| 1837 | 0           | -10         | 10         | 0            | -0.00   | -0.01   | 11.49   | 1.14       | -3.20      | 0.01       | 2.64        | 1.35     |
| 1843 | 0           | -10         | 15         | 0            | -0.00   | -0.01   | 11.49   | 1.44       | -3.16      | 0.01       | 2.66        | 1.33     |
| 1760 | 0           | 0           | 0          | 0            | -0.01   | 0.00    | 11.49   | -0.03      | -3.71      | 0.01       | 2.61        | 1.36     |
| 1764 | 0           | 0           | 5          | 0            | -0.02   | -0.02   | 11.49   | 0.27       | -3.71      | 0.01       | 2.60        | 1.37     |
| 1768 | 0           | 0           | 10         | 0            | -0.01   | -0.02   | 11.49   | 0.60       | -3.64      | 0.01       | 2.61        | 1.36     |
| 1773 | 0           | 0           | 15         | 0            | 0.00    | 0.01    | 11.49   | 0.95       | -3.57      | 0.01       | 2.59        | 1.38     |
| 1779 | 0           | 10          | 0          | 0            | -0.01   | 0.01    | 11.49   | -0.61      | -3.79      | 0.05       | 2.56        | 1.35     |
| 1783 | 0           | 10          | 5          | 0            | 0.02    | -0.02   | 11.49   | -0.32      | -3.77      | 0.01       | 2.57        | 1.34     |
| 1787 | 0           | 10          | 10         | 0            | -0.00   | -0.02   | 11.49   | -0.02      | -3.76      | 0.01       | 2.58        | 1.33     |
| 1792 | 0           | 10          | 15         | 0            | -0.00   | -0.01   | 11.49   | 0.32       | -3.79      | 0.00       | 2.58        | 1.33     |
| 1809 | 0           | 21          | 0          | 0            | -0.11   | 0.04    | 11.49   | -0.77      | -3.75      | 0.08       | 2.68        | 1.09     |
| 1814 | 0           | 21          | 5          | 0            | 0.00    | 0.01    | 11.49   | -0.47      | -3.71      | 0.02       | 2.69        | 1.08     |
| 1819 | 0           | 21          | 10         | 0            | 0.02    | -0.00   | 11.49   | -0.15      | -3.69      | 0.00       | 2.70        | 1.07     |
| 1823 | 0           | 21          | 15         | 0            | 0.01    | -0.04   | 11.49   | 0.09       | -3.62      | -0.02      | 2.72        | 1.05     |
| 1918 | 3           | -11         | 0          | 0            | -0.09   | 0.04    | 11.49   | 0.45       | -8.88      | 0.03       | 2.79        | 2.23     |
| 1922 | 3           | -11         | 5          | 0            | -0.02   | 0.08    | 11.49   | 1.25       | -8.78      | 0.04       | 2.81        | 2.21     |
| 1926 | 3           | -11         | 10         | 0            | -0.01   | 0.09    | 11.49   | 2.02       | -8.70      | 0.03       | 2.80        | 2.22     |
| 1930 | 3           | -11         | 15         | 0            | -0.03   | 0.07    | 11.49   | 2.76       | -8.54      | 0.04       | 2.81        | 2.21     |
| 1850 | 3           | 0           | 0          | 0            | -0.01   | 0.04    | 11.49   | -0.03      | -9.53      | 0.05       | 2.81        | 2.40     |
| 1854 | 3           | 0           | 0          | 0            | -0.01   | 0.03    | 11.49   | -0.03      | -9.49      | 0.04       | 2.90        | 2.31     |
| 1856 | 3           | 0           | 5          | 0            | -0.01   | 0.01    | 11.49   | 0.76       | -9.43      | 0.04       | 2.90        | 2.31     |
| 1860 | 3           | 0           | 10         | 0            | -0.01   | 0.03    | 11.49   | 1.58       | -9.30      | 0.03       | 2.91        | 2.30     |
| 1864 | 3           | 0           | 15         | 0            | -0.02   | 0.01    | 11.49   | 2.36       | -9.10      | 0.04       | 2.90        | 2.31     |

\* Indicates model was close to heave stop

TABLE 5.100.2 - STABILITY DATA IN WIND AXES WITHOUT AIR TARES

10 deg Deadrise, L/R = 0.000, Cv = 0

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 1880 | 3           | 10          | 0          | 0            | -0.02   | 0.07    | 11.49   | -0.45      | -9.09      | 0.06       | 2.79        | 2.23     |
| 1884 | 3           | 10          | 5          | 0            | -0.03   | -0.04   | 11.49   | 0.21       | -9.09      | 0.06       | 2.80        | 2.22     |
| 1888 | 3           | 10          | 10         | 0            | -0.02   | 0.06    | 11.49   | 1.13       | -9.10      | 0.05       | 2.80        | 2.22     |
| 1894 | 3           | 10          | 15         | 0            | -0.02   | 0.01    | 11.49   | 1.83       | -8.83      | 0.02       | 2.84        | 2.18     |
| 1900 | 3           | 21          | 0          | 0            | -0.02   | 0.02    | 11.49   | -0.76      | -8.55      | 0.05       | 2.82        | 2.01     |
| 1904 | 3           | 21          | 5          | 0            | -0.02   | 0.02    | 11.49   | -0.00      | -8.60      | 0.01       | 2.83        | 2.00     |
| 1908 | 3           | 21          | 10         | 0            | -0.02   | 0.01    | 11.49   | 0.74       | -8.54      | 0.02       | 2.83        | 2.00     |
| 1912 | 3           | 21          | 15         | 0            | 0.01    | 0.07    | 11.49   | 1.55       | -8.48      | 0.03       | 2.84        | 1.99     |
| 2022 | 6           | -10         | 0          | 0            | -0.02   | 0.06    | 11.49   | 0.29       | -12.00     | 0.08       | 3.22        | 3.08     |
| 2026 | 6           | -10         | 5          | 0            | 0.00    | 0.02    | 11.49   | 1.30       | -11.96     | 0.04       | 3.21        | 3.09     |
| 2030 | 6           | -10         | 10         | 0            | -0.00   | -0.01   | 11.49   | 2.31       | -11.86     | 0.03       | 3.21        | 3.09     |
| 2034 | 6           | -10         | 15         | 0            | -0.02   | -0.00   | 11.49   | 3.33       | -11.53     | 0.03       | 3.22        | 3.08     |
| 1963 | 6           | 0           | 0          | 0            | 0.01    | 0.03    | 11.49   | -0.04      | -12.18     | 0.08       | 3.18        | 3.05     |
| 1967 | 6           | 0           | 5          | 0            | 0.00    | 0.01    | 11.49   | 1.01       | -12.24     | 0.07       | 3.18        | 3.05     |
| 1972 | 6           | 0           | 10         | 0            | -0.01   | -0.01   | 11.49   | 2.05       | -12.03     | 0.05       | 3.20        | 3.03     |
| 1976 | 6           | 0           | 15         | 0            | -0.01   | -0.02   | 11.49   | 3.08       | -11.80     | 0.03       | 3.23        | 3.00     |
| 1982 | 6           | 10          | 0          | 0            | 0.01    | 0.00    | 11.49   | -0.36      | -11.97     | 0.06       | 3.25        | 2.91     |
| 1986 | 6           | 10          | 5          | 0            | 0.00    | 0.00    | 11.49   | 0.68       | -12.18     | 0.04       | 3.23        | 2.93     |
| 1990 | 6           | 10          | 10         | 0            | -0.01   | -0.02   | 11.49   | 1.71       | -12.01     | 0.05       | 3.24        | 2.92     |
| 1993 | 6           | 10          | 10         | 0            | -0.01   | -0.01   | 11.49   | 1.70       | -11.97     | 0.00       | 3.15        | 3.01     |
| 1995 | 6           | 10          | 15         | 0            | -0.01   | -0.01   | 11.49   | 2.74       | -11.82     | 0.03       | 3.15        | 3.01     |
| 2002 | 6           | 20          | 0          | 0            | -0.03   | 0.04    | 11.49   | -0.55      | -11.68     | 0.06       | 3.20        | 2.82     |
| 2007 | 6           | 20          | 5          | 0            | 0.02    | 0.03    | 11.49   | 0.45       | -11.64     | 0.05       | 3.19        | 2.83     |
| 2011 | 6           | 20          | 10         | 0            | 0.02    | 0.03    | 11.49   | 1.47       | -11.61     | 0.06       | 3.19        | 2.83     |
| 2015 | 6           | 20          | 15         | 0            | 0.02    | 0.03    | 11.49   | 2.48       | -11.46     | 0.05       | 3.19        | 2.83     |

\* Indicates model was close to heave stop

TABLE 5.101.1 - STABILITY DATA IN WIND AXES WITHOUT AIR TARES

10 deg Deadrise, L/R = 0.000, Cv = 1.5

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|--------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 2113   | -2          | -10         | 0          | 7.38         | 1.65    | 0.13    | 11.49   | 0.31       | 4.40       | 0.31       | 2.21        | 1.09     |
| 2117   | -2          | -10         | 5          | 7.36         | 1.95    | 1.14    | 11.49   | -0.28      | 4.60       | 2.01       | 2.03        | 1.27     |
| 2121   | -2          | -10         | 10         | 7.37         | 3.04    | 3.20    | 11.49   | -1.18      | 5.39       | 4.88       | 1.66        | 1.64     |
| 2123 * | -2          | -10         | 15         | 7.37         | 4.45    | 5.73    | 11.49   | -2.62      | 6.13       | 7.93       | 1.50        | 1.80     |
| 2060   | -2          | 0           | 0          | 7.36         | 1.70    | -0.02   | 11.49   | 0.18       | 4.91       | 0.05       | 2.18        | 1.18     |
| 2063   | -2          | 0           | 0          | 7.36         | 1.70    | -0.03   | 11.49   | 0.21       | 4.91       | 0.07       | 2.17        | 1.19     |
| 2066   | -2          | 0           | 5          | 7.37         | 1.92    | 0.80    | 11.49   | -0.57      | 5.12       | 1.46       | 2.04        | 1.32     |
| 2068   | -2          | 0           | 10         | 7.36         | 2.58    | 2.19    | 11.49   | -1.19      | 5.30       | 3.64       | 1.85        | 1.51     |
| 2071 * | -2          | 0           | 15         | 7.36         | 4.03    | 4.48    | 11.49   | -2.25      | 5.56       | 7.06       | 1.50        | 1.86     |
| 2075   | -2          | 10          | 0          | 7.37         | 1.61    | -0.20   | 11.49   | -0.18      | 4.26       | -0.30      | 2.24        | 1.06     |
| 2079   | -2          | 10          | 5          | 7.36         | 1.68    | 0.50    | 11.49   | -0.79      | 4.69       | 1.00       | 2.21        | 1.09     |
| 2082   | -2          | 10          | 10         | 7.37         | 2.12    | 1.58    | 11.49   | -1.67      | 4.98       | 2.63       | 2.05        | 1.25     |
| 2084   | -2          | 10          | 15         | 7.37         | 3.36    | 3.55    | 11.49   | -2.57      | 5.21       | 5.47       | 1.75        | 1.55     |
| 2091   | -2          | 20          | 0          | 7.37         | 1.49    | -0.18   | 11.49   | -0.30      | 3.47       | -0.25      | 2.33        | 0.78     |
| 2095   | -2          | 20          | 5          | 7.39         | 1.66    | 0.48    | 11.49   | -0.86      | 4.40       | 1.10       | 2.30        | 0.81     |
| 2099   | -2          | 20          | 10         | 7.36         | 2.11    | 1.59    | 11.49   | -1.45      | 5.10       | 2.51       | 2.20        | 0.91     |
| 2102   | -2          | 20          | 15         | 7.39         | 2.80    | 3.49    | 11.49   | -2.15      | 5.89       | 4.42       | 2.03        | 1.08     |
| 1830   | 0           | -10         | 0          | 7.37         | 1.25    | -0.09   | 11.49   | 0.51       | 0.74       | -0.11      | 2.40        | 1.59     |
| 1834   | 0           | -10         | 5          | 7.38         | 1.46    | 0.59    | 11.49   | 0.32       | 0.56       | 0.65       | 2.31        | 1.68     |
| 1840   | 0           | -10         | 10         | 7.36         | 2.10    | 1.96    | 11.49   | -0.25      | 1.04       | 1.99       | 2.06        | 1.93     |
| 1844   | 0           | -10         | 15         | 7.37         | 3.47    | 4.54    | 11.49   | -1.61      | 1.87       | 4.07       | 1.73        | 2.26     |
| 1761   | 0           | 0           | 0          | 7.37         | 1.25    | -0.02   | 11.49   | 0.07       | 0.92       | -0.01      | 2.38        | 1.59     |
| 1765   | 0           | 0           | 5          | 7.37         | 1.35    | 0.32    | 11.49   | -0.08      | 0.97       | 0.48       | 2.34        | 1.63     |
| 1769   | 0           | 0           | 10         | 7.39         | 1.70    | 0.97    | 11.49   | -0.40      | 1.16       | 1.26       | 2.21        | 1.76     |
| 1774   | 0           | 0           | 15         | 7.37         | 2.73    | 2.64    | 11.49   | -1.03      | 1.77       | 2.92       | 1.88        | 2.09     |
| 1780   | 0           | 10          | 0          | 7.37         | 1.30    | 0.04    | 11.49   | -0.42      | 0.65       | 0.12       | 2.35        | 1.56     |
| 1784   | 0           | 10          | 5          | 7.37         | 1.38    | 0.47    | 11.49   | -0.58      | 1.09       | 0.59       | 2.35        | 1.56     |
| 1788   | 0           | 10          | 10         | 7.37         | 1.64    | 1.06    | 11.49   | -0.76      | 1.49       | 1.13       | 2.31        | 1.60     |
| 1789   | 0           | 10          | 10         | 7.37         | 1.63    | 1.03    | 11.49   | -0.74      | 1.41       | 1.08       | 2.31        | 1.60     |
| 1793   | 0           | 10          | 15         | 7.37         | 2.27    | 2.03    | 11.49   | -1.12      | 2.46       | 1.71       | 2.15        | 1.76     |
| 1810   | 0           | 21          | 0          | 7.37         | 1.10    | -0.05   | 11.49   | -0.67      | -0.29      | -0.01      | 2.47        | 1.30     |
| 1815   | 0           | 21          | 5          | 7.36         | 1.25    | 0.63    | 11.49   | -0.83      | 0.34       | 0.65       | 2.47        | 1.30     |
| 1820   | 0           | 21          | 10         | 7.36         | 1.57    | 1.72    | 11.49   | -0.95      | 1.00       | 1.21       | 2.45        | 1.32     |
| 1824   | 0           | 21          | 15         | 7.37         | 2.26    | 2.87    | 11.49   | -1.43      | 2.51       | 1.62       | 2.40        | 1.37     |
| 1919   | 3           | -11         | 0          | 7.37         | 1.15    | -0.06   | 11.49   | 0.53       | -4.78      | -0.15      | 2.78        | 2.24     |
| 1923   | 3           | -11         | 5          | 7.37         | 1.34    | 0.70    | 11.49   | 0.92       | -4.84      | -0.30      | 2.71        | 2.31     |
| 1927   | 3           | -11         | 10         | 7.37         | 1.76    | 1.83    | 11.49   | 0.95       | -4.44      | -0.50      | 2.55        | 2.47     |
| 1931   | 3           | -11         | 15         | 7.38         | 2.83    | 4.17    | 11.49   | 0.35       | -3.53      | -0.55      | 2.22        | 2.80     |
| 1851   | 3           | 0           | 0          | 7.37         | 1.08    | 0.04    | 11.49   | 0.06       | -5.04      | 0.05       | 2.81        | 2.40     |
| 1855   | 3           | 0           | 0          | 7.37         | 1.15    | 0.04    | 11.49   | 0.02       | -5.08      | 0.05       | 2.92        | 2.29     |
| 1857   | 3           | 0           | 5          | 7.37         | 1.26    | 0.55    | 11.49   | 0.44       | -4.88      | -0.24      | 2.89        | 2.32     |
| 1861   | 3           | 0           | 10         | 7.37         | 1.55    | 1.27    | 11.49   | 0.72       | -4.21      | -0.60      | 2.79        | 2.42     |
| 1865   | 3           | 0           | 15         | 7.37         | 2.12    | 2.33    | 11.49   | 0.62       | -3.02      | -0.97      | 2.59        | 2.62     |

\* Indicates model was close to heave stop

TABLE 5.101.2 - STABILITY DATA IN WIND AXES WITHOUT AIR TARES

10 deg Deadrise, L/R = 0.000, Cv = 1.5

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 1881 | 3           | 10          | 0          | 7.38         | 1.20    | 0.07    | 11.49   | -0.49      | -4.99      | 0.23       | 2.77        | 2.25     |
| 1885 | 3           | 10          | 5          | 7.37         | 1.23    | 0.72    | 11.49   | -0.14      | -4.70      | -0.04      | 2.81        | 2.21     |
| 1889 | 3           | 10          | 10         | 7.37         | 1.48    | 1.55    | 11.49   | 0.35       | -4.17      | -0.50      | 2.79        | 2.23     |
| 1895 | 3           | 10          | 15         | 7.36         | 1.96    | 2.32    | 11.49   | 0.43       | -2.68      | -1.11      | 2.73        | 2.29     |
| 1901 | 3           | 21          | 0          | 7.37         | 1.28    | 0.06    | 11.49   | -0.77      | -5.05      | 0.36       | 2.78        | 2.05     |
| 1905 | 3           | 21          | 5          | 7.37         | 1.43    | 1.12    | 11.49   | -0.50      | -4.69      | -0.04      | 2.81        | 2.02     |
| 1909 | 3           | 21          | 10         | 7.37         | 1.77    | 2.32    | 11.49   | -0.22      | -4.28      | -0.63      | 2.83        | 2.00     |
| 1913 | 3           | 21          | 15         | 7.37         | 2.20    | 3.22    | 11.49   | 0.06       | -3.03      | -1.19      | 2.86        | 1.97     |
| 2023 | 6           | -10         | 0          | 7.37         | 1.64    | -0.23   | 11.49   | 0.43       | -8.60      | -0.01      | 3.37        | 2.93     |
| 2027 | 6           | -10         | 5          | 7.37         | 1.73    | 0.67    | 11.49   | 1.19       | -8.62      | -0.97      | 3.30        | 3.00     |
| 2031 | 6           | -10         | 10         | 7.37         | 2.07    | 1.86    | 11.49   | 1.82       | -8.25      | -2.06      | 3.18        | 3.12     |
| 2035 | 6           | -10         | 15         | 7.37         | 2.83    | 3.76    | 11.49   | 2.17       | -7.55      | -3.66      | 2.98        | 3.32     |
| 1964 | 6           | 0           | 0          | 7.37         | 1.48    | 0.00    | 11.49   | 0.06       | -8.57      | 0.10       | 3.39        | 2.84     |
| 1969 | 6           | 0           | 5          | 7.37         | 1.56    | 0.82    | 11.49   | 0.94       | -8.41      | -0.96      | 3.39        | 2.84     |
| 1973 | 6           | 0           | 10         | 7.37         | 1.88    | 1.68    | 11.49   | 1.87       | -7.88      | -2.01      | 3.30        | 2.93     |
| 1977 | 6           | 0           | 15         | 7.36         | 2.39    | 2.69    | 11.49   | 2.29       | -7.16      | -3.20      | 3.23        | 3.00     |
| 1983 | 6           | 10          | 0          | 7.37         | 1.63    | 0.33    | 11.49   | 0.11       | -8.55      | 0.15       | 3.44        | 2.72     |
| 1987 | 6           | 10          | 5          | 7.36         | 1.70    | 1.25    | 11.49   | 0.88       | -8.37      | -0.87      | 3.45        | 2.71     |
| 1991 | 6           | 10          | 10         | 7.37         | 1.91    | 2.17    | 11.49   | 1.62       | -7.55      | -2.12      | 3.45        | 2.71     |
| 1996 | 6           | 10          | 15         | 7.37         | 2.28    | 2.71    | 11.49   | 1.94       | -7.01      | -2.87      | 3.37        | 2.79     |
| 2003 | 6           | 20          | 0          | 7.37         | 1.65    | 0.50    | 11.49   | -0.16      | -8.65      | 0.21       | 3.34        | 2.68     |
| 2008 | 6           | 20          | 5          | 7.37         | 1.88    | 1.75    | 11.49   | 0.66       | -8.29      | -0.92      | 3.41        | 2.61     |
| 2012 | 6           | 20          | 10         | 7.37         | 2.24    | 3.03    | 11.49   | 1.21       | -7.61      | -2.37      | 3.42        | 2.60     |
| 2016 | 6           | 20          | 15         | 7.37         | 2.64    | 3.42    | 11.49   | 1.68       | -6.90      | -2.94      | 3.50        | 2.52     |

\* Indicates model was close to heave stop

TABLE 5.103.1 - STABILITY DATA IN WIND AXES WITHOUT AIR TARES

10 deg Deadrise, L/R = 0.000, Cv = 3

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|--------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 2114   | -2          | -10         | 0          | 14.75        | 6.83    | 1.97    | 11.49   | 0.20       | 1.11       | 2.09       | 1.94        | 1.36     |
| 2118   | -2          | -10         | 5          | 14.74        | 8.65    | 8.32    | 11.49   | -0.94      | 0.45       | 11.10      | 1.58        | 1.72     |
| 2064   | -2          | 0           | 0          | 14.74        | 6.55    | 0.16    | 11.49   | 0.08       | 0.37       | 0.19       | 1.99        | 1.37     |
| 2067   | -2          | 0           | 5          | 14.74        | 7.96    | 5.88    | 11.49   | -0.50      | 0.23       | 8.01       | 1.58        | 1.78     |
| 2076   | -2          | 10          | 0          | 14.73        | 6.34    | -1.51   | 11.49   | -0.23      | 1.23       | -1.67      | 2.05        | 1.25     |
| 2080   | -2          | 10          | 5          | 14.74        | 7.32    | 2.68    | 11.49   | -1.39      | 2.54       | 4.77       | 1.82        | 1.48     |
| 2092   | -2          | 20          | 0          | 14.76        | 5.61    | -0.99   | 11.49   | -0.28      | 2.42       | -0.19      | 2.15        | 0.96     |
| 2096   | -2          | 20          | 5          | 14.74        | 5.61    | 3.00    | 11.49   | -0.88      | 5.07       | 5.55       | 2.31        | 0.80     |
| 2100   | -2          | 20          | 10         | 14.74        | 7.47    | 7.87    | 11.49   | -2.59      | 9.30       | 11.09      | 2.14        | 0.97     |
| 2103   | -2          | 20          | 15         | 14.73        | 6.51    | 5.25    | 11.49   | -3.69      | 18.06      | 8.56       | 2.86        | 0.25     |
| 1831   | 0           | -10         | 0          | 14.75        | 3.73    | -0.09   | 11.49   | 0.48       | 3.93       | -1.70      | 2.60        | 1.39     |
| 1835   | 0           | -10         | 5          | 14.73        | 5.31    | 3.40    | 11.49   | -0.50      | 4.74       | 0.17       | 2.21        | 1.78     |
| 1841   | 0           | -10         | 10         | 14.77        | 9.12    | 12.29   | 11.49   | -2.99      | 6.17       | 4.78       | 1.72        | 2.27     |
| 1845   | 0           | -10         | 15         | 14.73        | 13.16   | 21.99   | 11.49   | -6.54      | 7.20       | 7.58       | 1.72        | 2.27     |
| 1762   | 0           | 0           | 0          | 14.74        | 3.55    | 0.01    | 11.49   | 0.10       | 4.76       | -0.13      | 2.54        | 1.43     |
| 1766   | 0           | 0           | 5          | 14.75        | 4.77    | 2.13    | 11.49   | -0.46      | 6.15       | -0.76      | 2.40        | 1.57     |
| 1770 * | 0           | 0           | 10         | 14.74        | 9.34    | 10.43   | 11.49   | -2.71      | 8.95       | 1.89       | 1.52        | 2.45     |
| 1775 * | 0           | 0           | 15         | 14.73        | 12.65   | 17.06   | 11.49   | -5.88      | 11.78      | 4.23       | 1.51        | 2.46     |
| 1781   | 0           | 10          | 0          | 14.74        | 3.64    | 0.10    | 11.49   | -0.36      | 4.03       | 1.20       | 2.52        | 1.39     |
| 1785   | 0           | 10          | 5          | 14.74        | 4.04    | 1.93    | 11.49   | -0.72      | 7.68       | 1.42       | 2.47        | 1.44     |
| 1790   | 0           | 10          | 10         | 14.73        | 4.60    | 3.31    | 11.49   | -1.56      | 10.50      | 1.67       | 2.61        | 1.30     |
| 1794   | 0           | 10          | 15         | 14.75        | 5.02    | 4.34    | 11.49   | -2.02      | 11.04      | 1.72       | 2.82        | 1.09     |
| 1811   | 0           | 21          | 0          | 14.73        | 3.58    | 0.03    | 11.49   | -0.52      | 0.97       | 0.84       | 2.68        | 1.09     |
| 1816   | 0           | 21          | 5          | 14.71        | 3.87    | 2.88    | 11.49   | -1.09      | 5.32       | 1.94       | 2.69        | 1.08     |
| 1821   | 0           | 21          | 10         | 14.74        | 3.41    | 3.37    | 11.49   | -1.52      | 7.17       | 1.73       | 3.06        | 0.71     |
| 1825   | 0           | 21          | 15         | 14.74        | 3.09    | 3.07    | 11.49   | -1.21      | 1.93       | -0.53      | 3.69        | 0.08     |
| 1920   | 3           | -11         | 0          | 14.75        | 2.33    | -0.75   | 11.49   | 0.63       | -2.64      | -0.11      | 3.25        | 1.77     |
| 1924   | 3           | -11         | 5          | 14.74        | 3.03    | 2.10    | 11.49   | 0.69       | -2.55      | -1.83      | 3.09        | 1.93     |
| 1928   | 3           | -11         | 10         | 14.77        | 5.36    | 7.89    | 11.49   | -0.34      | -0.60      | -4.07      | 2.63        | 2.39     |
| 1933   | 3           | -11         | 15         | 14.75        | 12.65   | 24.35   | 11.49   | -4.50      | 5.03       | -2.76      | 1.61        | 3.41     |
| 1852   | 3           | 0           | 0          | 14.74        | 1.86    | -0.01   | 11.49   | 0.01       | -2.48      | 0.12       | 3.33        | 1.88     |
| 1858   | 3           | 0           | 5          | 14.75        | 2.26    | 1.06    | 11.49   | 0.50       | -2.59      | -0.89      | 3.42        | 1.79     |
| 1862   | 3           | 0           | 10         | 14.73        | 3.00    | 2.87    | 11.49   | 0.66       | -1.85      | -2.55      | 3.38        | 1.83     |
| 1866   | 3           | 0           | 15         | 14.73        | 4.84    | 6.30    | 11.49   | 0.08       | 0.30       | -5.44      | 3.16        | 2.05     |

\* Indicates model was close to heave stop

TABLE 5.103.2 - STABILITY DATA IN WIND AXES WITHOUT AIR TARES

10 deg Deadrise, L/R = 0.000, Cv = 3

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 1882 | 3           | 10          | 0          | 14.72        | 2.26    | 0.62    | 11.49   | -0.61      | -2.99      | 0.37       | 3.27        | 1.75     |
| 1886 | 3           | 10          | 5          | 14.73        | 2.08    | 1.66    | 11.49   | -0.08      | -3.22      | -0.73      | 3.50        | 1.52     |
| 1890 | 3           | 10          | 10         | 14.73        | 2.04    | 2.12    | 11.49   | 1.07       | -6.13      | -1.63      | 3.83        | 1.19     |
| 1891 | 3           | 10          | 10         | 14.73        | 2.02    | 2.07    | 11.49   | 1.06       | -6.16      | -1.64      | 3.83        | 1.19     |
| 1896 | 3           | 10          | 15         | 14.77        | 2.06    | 2.42    | 11.49   | 2.67       | -9.65      | -2.86      | 4.14        | 0.88     |
| 1902 | 3           | 21          | 0          | 14.73        | 2.77    | 0.59    | 11.49   | -0.87      | -3.21      | 0.95       | 3.25        | 1.58     |
| 1906 | 3           | 21          | 5          | 14.74        | 2.47    | 3.33    | 11.49   | -0.71      | -3.24      | -1.34      | 3.55        | 1.28     |
| 1910 | 3           | 21          | 10         | 14.74        | 2.13    | 3.31    | 11.49   | 0.27       | -6.83      | -2.74      | 4.12        | 0.71     |
| 1914 | 3           | 21          | 15         | 14.73        | 2.01    | 3.11    | 11.49   | 1.54       | -10.15     | -3.51      | 4.55        | 0.28     |
| 2024 | 6           | -10         | 0          | 14.74        | 2.02    | -1.39   | 11.49   | 0.41       | -10.16     | 1.60       | 4.64        | 1.66     |
| 2028 | 6           | -10         | 5          | 14.76        | 2.42    | 0.02    | 11.49   | 1.34       | -8.89      | -0.57      | 4.33        | 1.97     |
| 2032 | 6           | -10         | 10         | 14.72        | 3.29    | 3.12    | 11.49   | 1.75       | -7.67      | -4.31      | 4.05        | 2.25     |
| 2036 | 6           | -10         | 15         | 14.73        | 5.69    | 9.42    | 11.49   | 1.13       | -5.57      | -10.71     | 3.60        | 2.70     |
| 1965 | 6           | 0           | 0          | 14.73        | 1.65    | 0.04    | 11.49   | 0.02       | -11.54     | 0.14       | 4.84        | 1.39     |
| 1970 | 6           | 0           | 5          | 14.73        | 1.55    | 0.29    | 11.49   | 1.28       | -11.49     | -0.30      | 4.84        | 1.39     |
| 1974 | 6           | 0           | 10         | 14.74        | 1.84    | 0.71    | 11.49   | 2.59       | -10.97     | -1.09      | 4.83        | 1.40     |
| 1978 | 6           | 0           | 15         | 14.73        | 2.42    | 1.63    | 11.49   | 3.68       | -10.66     | -2.74      | 4.77        | 1.46     |
| 1984 | 6           | 10          | 0          | 14.75        | 1.98    | 1.56    | 11.49   | -0.03      | -10.73     | -1.48      | 4.71        | 1.45     |
| 1988 | 6           | 10          | 5          | 14.73        | 1.86    | 1.74    | 11.49   | 1.28       | -12.69     | -2.19      | 5.08        | 1.08     |
| 1992 | 6           | 10          | 10         | 14.73        | 1.87    | 1.88    | 11.49   | 2.70       | -14.15     | -2.78      | 5.33        | 0.83     |
| 1997 | 6           | 10          | 15         | 14.73        | 1.92    | 1.88    | 11.49   | 4.06       | -14.63     | -3.08      | 5.38        | 0.78     |
| 2004 | 6           | 20          | 0          | 14.74        | 2.22    | 2.34    | 11.49   | -0.67      | -9.09      | -1.52      | 4.38        | 1.64     |
| 2009 | 6           | 20          | 5          | 14.73        | 2.32    | 4.34    | 11.49   | 0.04       | -10.97     | -4.71      | 4.77        | 1.25     |
| 2013 | 6           | 20          | 10         | 14.72        | 2.11    | 2.94    | 11.49   | 1.52       | -13.24     | -3.95      | 5.33        | 0.69     |
| 2017 | 6           | 20          | 15         | 14.73        | 2.27    | 2.63    | 11.49   | 2.99       | -14.36     | -4.06      | 5.58        | 0.44     |

\* Indicates model was close to heave stop



TABLE 5.104.1 - STABILITY DATA IN WIND AXES WITHOUT AIR TARES

10 deg Deadrise, L/R = 0.000, Cv = 4

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|--------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 2115   | -2          | -10         | 0          | 19.64        | 12.86   | 4.55    | 11.49   | 0.94       | -3.53      | 4.75       | 1.61        | 1.69     |
| 2077   | -2          | 10          | 0          | 19.68        | 12.80   | -3.70   | 11.49   | -0.38      | -3.71      | -4.00      | 1.56        | 1.74     |
| 2093 * | -2          | 20          | 0          | 19.64        | 13.21   | -6.59   | 11.49   | -0.37      | 1.45       | -9.80      | 1.52        | 1.59     |
| 2097 * | -2          | 20          | 5          | 19.64        | 13.50   | 3.44    | 11.49   | -1.35      | 5.92       | 6.32       | 1.55        | 1.56     |
| 2105   | -2          | 20          | 10         | 19.67        | 12.16   | 6.37    | 11.49   | -3.35      | 26.38      | 12.81      | 2.23        | 0.88     |
| 2107   | -2          | 20          | 10         | 19.69        | 16.47   | 18.18   | 11.49   | -2.13      | 9.06       | 21.32      | 1.67        | 1.44     |
| 2109   | -2          | 20          | 12         | 19.66        | 7.59    | 4.83    | 11.49   | -3.68      | 21.47      | 8.11       | 3.04        | 0.07     |
| 2104   | -2          | 20          | 15         | 19.66        | 5.40    | 3.82    | 11.49   | -3.44      | 14.69      | 4.14       | 3.58        | -0.47    |
| 1832   | 0           | -10         | 0          | 19.66        | 6.88    | -0.67   | 11.49   | 0.32       | 9.60       | -3.77      | 2.44        | 1.55     |
| 1836   | 0           | -10         | 5          | 19.63        | 11.28   | 7.44    | 11.49   | -1.57      | 11.37      | 2.84       | 1.71        | 2.28     |
| 1842   | 0           | -10         | 10         | 19.65        | 15.23   | 20.59   | 11.49   | -5.76      | 12.70      | 8.84       | 1.72        | 2.27     |
| 1846   | 0           | -10         | 15         | 19.69        | 22.41   | 39.16   | 11.49   | -11.92     | 13.28      | 13.28      | 1.69        | 2.30     |
| 1763   | 0           | 0           | 0          | 19.66        | 6.51    | -0.07   | 11.49   | 0.15       | 12.36      | -0.28      | 2.28        | 1.69     |
| 1767   | 0           | 0           | 5          | 19.67        | 9.00    | 2.54    | 11.49   | -1.06      | 15.11      | -0.74      | 2.17        | 1.80     |
| 1772 * | 0           | 0           | 10         | 19.62        | 15.11   | 14.85   | 11.49   | -4.91      | 18.07      | 5.03       | 1.47        | 2.50     |
| 1776 * | 0           | 0           | 15         | 19.64        | 21.48   | 28.66   | 11.49   | -9.96      | 21.71      | 7.42       | 1.45        | 2.52     |
| 1782   | 0           | 10          | 0          | 19.65        | 6.76    | 0.73    | 11.49   | -0.06      | 10.57      | 2.17       | 2.33        | 1.58     |
| 1786   | 0           | 10          | 5          | 19.62        | 5.87    | 2.14    | 11.49   | -0.92      | 14.73      | 2.33       | 2.59        | 1.32     |
| 1791   | 0           | 10          | 10         | 19.65        | 4.95    | 2.74    | 11.49   | -1.18      | 11.30      | 1.83       | 3.03        | 0.88     |
| 1795   | 0           | 10          | 15         | 19.66        | 4.23    | 3.48    | 11.49   | -0.55      | 5.00       | 0.05       | 3.37        | 0.54     |
| 1812   | 0           | 21          | 0          | 19.63        | 6.61    | 0.44    | 11.49   | -0.37      | 5.20       | 2.09       | 2.52        | 1.25     |
| 1818   | 0           | 21          | 5          | 19.64        | 5.52    | 3.03    | 11.49   | -1.38      | 12.17      | 3.05       | 2.79        | 0.98     |
| 1822   | 0           | 21          | 10         | 19.64        | 4.19    | 2.80    | 11.49   | -1.55      | 5.09       | 0.22       | 3.59        | 0.18     |
| 1826   | 0           | 21          | 15         | 19.62        | 2.46    | 1.88    | 11.49   | -0.70      | -2.88      | -0.81      | 4.20        | -0.43    |
| 1921   | 3           | -11         | 0          | 19.65        | 2.88    | -1.28   | 11.49   | 0.62       | -2.44      | 0.63       | 3.57        | 1.45     |
| 1925   | 3           | -11         | 5          | 19.66        | 4.37    | 2.33    | 11.49   | 0.61       | -0.44      | -2.45      | 3.26        | 1.76     |
| 1929   | 3           | -11         | 10         | 19.64        | 8.25    | 12.35   | 11.49   | -1.38      | 3.53       | -6.49      | 2.65        | 2.37     |
| 1934   | 3           | -11         | 15         | 19.69        | 20.72   | 42.29   | 11.49   | -9.05      | 13.41      | -4.80      | 1.59        | 3.43     |
| 1853   | 3           | 0           | 0          | 19.68        | 2.41    | 0.06    | 11.49   | -0.02      | -4.39      | 0.14       | 3.80        | 1.41     |
| 1859   | 3           | 0           | 5          | 19.65        | 2.67    | 0.64    | 11.49   | 0.77       | -4.23      | -0.39      | 3.80        | 1.41     |
| 1863   | 3           | 0           | 10         | 19.64        | 3.33    | 2.27    | 11.49   | 1.41       | -4.14      | -2.44      | 3.80        | 1.41     |
| 1867   | 3           | 0           | 15         | 19.63        | 4.90    | 5.34    | 11.49   | 1.36       | -2.04      | -6.02      | 3.66        | 1.55     |

\* Indicates model was close to heave stop

TABLE 5.104.2 - STABILITY DATA IN WIND AXES WITHOUT AIR TARES

10 deg Deadrise, L/R = 0.000, Cv = 4

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 1883 | 3           | 10          | 0          | 19.64        | 2.79    | 1.25    | 11.49   | -0.73      | -3.07      | -0.46      | 3.61        | 1.41     |
| 1887 | 3           | 10          | 5          | 19.69        | 2.29    | 1.83    | 11.49   | 0.33       | -8.36      | -1.74      | 4.06        | 0.96     |
| 1893 | 3           | 10          | 10         | 19.65        | 1.93    | 2.06    | 11.49   | 1.58       | -11.39     | -2.54      | 4.30        | 0.72     |
| 1897 | 3           | 10          | 15         | 19.63        | 1.93    | 2.06    | 11.49   | 2.88       | -12.74     | -2.94      | 4.43        | 0.59     |
| 1903 | 3           | 21          | 0          | 19.63        | 3.84    | 1.31    | 11.49   | -1.03      | -2.01      | 1.12       | 3.48        | 1.35     |
| 1907 | 3           | 21          | 5          | 19.63        | 2.55    | 3.08    | 11.49   | -0.63      | -6.15      | -2.06      | 4.10        | 0.73     |
| 1911 | 3           | 21          | 10         | 19.64        | 2.02    | 2.85    | 11.49   | 0.56       | -10.98     | -3.05      | 4.60        | 0.23     |
| 1915 | 3           | 21          | 15         | 19.67        | 1.91    | 2.28    | 11.49   | 2.03       | -13.51     | -2.98      | 4.92        | -0.09    |
| 2025 | 6           | -10         | 0          | 19.64        | 1.83    | -0.89   | 11.49   | 0.63       | -13.99     | 1.56       | 5.35        | 0.95     |
| 2029 | 6           | -10         | 5          | 19.67        | 2.40    | -0.43   | 11.49   | 1.75       | -12.01     | 0.42       | 5.04        | 1.26     |
| 2033 | 6           | -10         | 10         | 19.62        | 3.52    | 2.60    | 11.49   | 2.42       | -9.66      | -4.20      | 4.69        | 1.61     |
| 2037 | 6           | -10         | 15         | 19.63        | 6.50    | 10.23   | 11.49   | 1.49       | -6.40      | -13.81     | 4.18        | 2.12     |
| 1966 | 6           | 0           | 0          | 19.65        | 1.45    | 0.19    | 11.49   | 0.03       | -16.81     | -0.03      | 5.54        | 0.69     |
| 1971 | 6           | 0           | 5          | 19.64        | 1.51    | 0.48    | 11.49   | 1.71       | -16.45     | -0.65      | 5.53        | 0.70     |
| 1975 | 6           | 0           | 10         | 19.64        | 1.66    | 0.79    | 11.49   | 3.43       | -16.16     | -1.33      | 5.51        | 0.72     |
| 1979 | 6           | 0           | 15         | 19.64        | 1.98    | 1.08    | 11.49   | 5.20       | -15.54     | -2.05      | 5.46        | 0.77     |
| 1985 | 6           | 10          | 0          | 19.63        | 1.89    | 1.20    | 11.49   | -0.33      | -14.69     | -1.42      | 5.43        | 0.73     |
| 1989 | 6           | 10          | 5          | 19.65        | 1.74    | 1.30    | 11.49   | 1.16       | -15.66     | -1.82      | 5.58        | 0.58     |
| 1994 | 6           | 10          | 10         | 19.67        | 1.75    | 1.37    | 11.49   | 2.41       | -16.29     | -2.11      | 5.58        | 0.58     |
| 1998 | 6           | 10          | 15         | 19.64        | 1.80    | 1.38    | 11.49   | 3.98       | -16.31     | -2.36      | 5.66        | 0.50     |
| 2005 | 6           | 20          | 0          | 19.63        | 2.46    | 3.00    | 11.49   | -0.98      | -11.30     | -2.94      | 5.02        | 1.00     |
| 2010 | 6           | 20          | 5          | 19.68        | 2.25    | 3.80    | 11.49   | 0.13       | -13.66     | -4.86      | 5.44        | 0.58     |
| 2014 | 6           | 20          | 10         | 19.68        | 1.97    | 2.28    | 11.49   | 1.43       | -16.07     | -3.27      | 5.82        | 0.20     |
| 2018 | 6           | 20          | 15         | 19.66        | 1.96    | 1.86    | 11.49   | 3.30       | -16.29     | -2.97      | 5.95        | 0.07     |

\* Indicates model was close to heave stop

TABLE 5.110.1 - STABILITY DATA IN WIND AXES WITHOUT AIR TARES

10 deg Deadrise, L/R = 0.117, Cv = 0

| RUN | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|-----|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 753 | 0           | -10         | -15        | 0            | -0.07   | 0.30    | 11.49   | -0.20      | -3.42      | 0.07       | 2.68        | 1.41     |
| 749 | 0           | -10         | -10        | 0            | 0.01    | 0.13    | 11.49   | -0.02      | -3.41      | 0.00       | 2.68        | 1.41     |
| 745 | 0           | -10         | -5         | 0            | 0.03    | 0.05    | 11.49   | 0.21       | -3.40      | -0.01      | 2.71        | 1.38     |
| 732 | 0           | -10         | 0          | 0            | 0.03    | 0.13    | 11.49   | 0.60       | -3.33      | 0.02       | 2.73        | 1.36     |
| 736 | 0           | -10         | 5          | 0            | 0.01    | 0.09    | 11.49   | 0.83       | -3.33      | 0.00       | 2.73        | 1.36     |
| 740 | 0           | -10         | 10         | 0            | 0.00    | 0.01    | 11.49   | 1.05       | -3.35      | 0.07       | 2.72        | 1.37     |
| 664 | 0           | 0           | -10        | 0            | 0.04    | 0.09    | 11.49   | -0.76      | -3.54      | -0.01      | 2.51        | 1.64     |
| 660 | 0           | 0           | -5         | 0            | 0.03    | 0.05    | 11.49   | -0.41      | -3.56      | 0.02       | 2.52        | 1.63     |
| 643 | 0           | 0           | 0          | 0            | 0.06    | 0.03    | 11.49   | -0.11      | -3.56      | 0.00       | 2.58        | 1.57     |
| 645 | 0           | 0           | 0          | 0            | 0.09    | 0.05    | 11.49   | -0.08      | -3.38      | -0.01      | 3.69        | 0.46     |
| 647 | 0           | 0           | 0          | 0            | 0.08    | 0.03    | 11.49   | -0.08      | -3.37      | 0.00       | 2.61        | 1.54     |
| 648 | 0           | 0           | 0          | 0            | 0.06    | 0.05    | 11.49   | -0.06      | -3.46      | 0.01       | 2.61        | 1.54     |
| 653 | 0           | 0           | 5          | 0            | 0.04    | 0.06    | 11.49   | 0.26       | -3.58      | 0.01       | 2.58        | 1.57     |
| 656 | 0           | 0           | 10         | 0            | 0.03    | 0.05    | 11.49   | 0.57       | -3.64      | 0.02       | 2.58        | 1.57     |
| 668 | 0           | 10          | -10        | 0            | 0.02    | 0.12    | 11.49   | -1.27      | -3.30      | -0.01      | 2.55        | 1.54     |
| 689 | 0           | 10          | -10        | 0            | 0.05    | 0.01    | 11.49   | -1.42      | -3.24      | 0.02       | 2.49        | 1.60     |
| 685 | 0           | 10          | -5         | 0            | 0.03    | 0.05    | 11.49   | -1.06      | -3.37      | -0.02      | 2.52        | 1.57     |
| 672 | 0           | 10          | 5          | 0            | 0.02    | 0.06    | 11.49   | -0.44      | -3.60      | -0.02      | 2.55        | 1.54     |
| 676 | 0           | 10          | 10         | 0            | 0.01    | 0.07    | 11.49   | -0.08      | -3.70      | -0.01      | 2.54        | 1.55     |
| 681 | 0           | 10          | 15         | 0            | 0.02    | 0.07    | 11.49   | 0.25       | -3.75      | -0.01      | 2.54        | 1.55     |
| 728 | 0           | 20          | -10        | 0            | 0.06    | -0.06   | 11.49   | -1.62      | -3.22      | 0.09       | 2.65        | 1.25     |
| 724 | 0           | 20          | -5         | 0            | 0.03    | 0.08    | 11.49   | -1.20      | -3.26      | -0.02      | 2.69        | 1.21     |
| 706 | 0           | 20          | 0          | 0            | 0.03    | 0.10    | 11.49   | -0.85      | -3.46      | -0.02      | 2.72        | 1.18     |
| 707 | 0           | 20          | 0          | 0            | 0.03    | 0.10    | 11.49   | -0.86      | -3.45      | -0.02      | 2.72        | 1.18     |
| 711 | 0           | 20          | 5          | 0            | 0.04    | 0.04    | 11.49   | -0.59      | -3.54      | 0.01       | 2.70        | 1.20     |
| 715 | 0           | 20          | 10         | 0            | 0.04    | 0.09    | 11.49   | -0.24      | -3.66      | 0.01       | 2.69        | 1.21     |
| 720 | 0           | 20          | 15         | 0            | 0.03    | 0.10    | 11.49   | 0.07       | -3.68      | -0.01      | 2.69        | 1.21     |
| 883 | 3           | -10         | -15        | 0            | 0.01    | 0.00    | 11.49   | -1.90      | -8.49      | -0.06      | 2.83        | 2.43     |
| 887 | 3           | -10         | -10        | 0            | -0.04   | 0.04    | 11.49   | -1.17      | -8.80      | -0.03      | 2.84        | 2.42     |
| 891 | 3           | -10         | -5         | 0            | -0.00   | 0.03    | 11.49   | -0.41      | -8.94      | -0.03      | 2.81        | 2.45     |
| 895 | 3           | -10         | 0          | 0            | 0.02    | 0.00    | 11.49   | 0.32       | -8.87      | -0.03      | 2.85        | 2.41     |
| 899 | 3           | -10         | 5          | 0            | -0.00   | 0.07    | 11.49   | 1.17       | -8.87      | -0.03      | 2.85        | 2.41     |
| 903 | 3           | -10         | 10         | 0            | 0.01    | 0.02    | 11.49   | 1.88       | -8.76      | -0.03      | 2.85        | 2.41     |
| 907 | 3           | -10         | 15         | 0            | -0.00   | 0.03    | 11.49   | 2.68       | -8.71      | -0.02      | 2.83        | 2.43     |
| 802 | 3           | 0           | -15        | 0            | 0.00    | 0.03    | 11.49   | -2.49      | -8.85      | -0.08      | 2.80        | 2.52     |
| 798 | 3           | 0           | -10        | 0            | 0.00    | 0.05    | 11.49   | -1.75      | -9.31      | -0.07      | 2.75        | 2.57     |
| 794 | 3           | 0           | -5         | 0            | 0.02    | 0.01    | 11.49   | -0.93      | -9.23      | -0.06      | 2.80        | 2.52     |
| 759 | 3           | 0           | 0          | 0            | -0.01   | 0.08    | 11.49   | -0.10      | -9.26      | -0.03      | 2.95        | 2.37     |
| 763 | 3           | 0           | 5          | 0            | -0.01   | 0.10    | 11.49   | 0.73       | -9.32      | -0.05      | 2.96        | 2.36     |
| 767 | 3           | 0           | 10         | 0            | -0.02   | 0.02    | 11.49   | 1.57       | -9.33      | -0.06      | 2.95        | 2.37     |
| 790 | 3           | 0           | 10         | 0            | 0.01    | 0.04    | 11.49   | 1.52       | -9.28      | -0.04      | 2.80        | 2.52     |
| 771 | 3           | 0           | 15         | 0            | -0.03   | 0.05    | 11.49   | 2.37       | -9.34      | -0.05      | 2.93        | 2.39     |
| 786 | 3           | 0           | 15         | 0            | 0.00    | 0.05    | 11.49   | 2.30       | -9.05      | -0.04      | 2.85        | 2.47     |

\* Indicates model was close to heave stop

TABLE 5.110.2 - STABILITY DATA IN WIND AXES WITHOUT AIR TARES

10 deg Deadrise, L/R = 0.117, Cv = 0

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 836  | 3           | 10          | -15        | 0            | 0.02    | -0.00   | 11.49   | -2.91      | -8.56      | -0.05      | 2.83        | 2.43     |
| 832  | 3           | 10          | -10        | 0            | -0.01   | 0.05    | 11.49   | -2.12      | -8.75      | -0.06      | 2.85        | 2.41     |
| 828  | 3           | 10          | -5         | 0            | -0.01   | -0.00   | 11.49   | -1.39      | -8.92      | -0.06      | 2.85        | 2.41     |
| 811  | 3           | 10          | 0          | 0            | -0.01   | 0.07    | 11.49   | -0.56      | -9.22      | -0.05      | 2.81        | 2.45     |
| 816  | 3           | 10          | 5          | 0            | -0.02   | 0.04    | 11.49   | 0.21       | -9.20      | -0.04      | 2.85        | 2.41     |
| 820  | 3           | 10          | 10         | 0            | -0.02   | 0.03    | 11.49   | 1.05       | -9.17      | -0.02      | 2.86        | 2.40     |
| 824  | 3           | 10          | 15         | 0            | -0.01   | 0.03    | 11.49   | 1.84       | -9.05      | -0.04      | 2.87        | 2.39     |
| 875  | 3           | 20          | -15        | 0            | -0.00   | 0.04    | 11.49   | -2.98      | -7.96      | -0.05      | 2.87        | 2.20     |
| 870  | 3           | 20          | -10        | 0            | -0.01   | 0.05    | 11.49   | -2.17      | -8.19      | -0.05      | 2.89        | 2.18     |
| 853  | 3           | 20          | -5         | 0            | -0.01   | -0.04   | 11.49   | -1.64      | -8.41      | -0.10      | 2.87        | 2.20     |
| 867  | 3           | 20          | -5         | 0            | -0.01   | 0.12    | 11.49   | -1.52      | -8.38      | -0.05      | 2.93        | 2.14     |
| 841  | 3           | 20          | 0          | 0            | 0.04    | -0.08   | 11.49   | -0.84      | -8.49      | -0.10      | 2.86        | 2.21     |
| 845  | 3           | 20          | 5          | 0            | -0.01   | -0.09   | 11.49   | -0.17      | -8.63      | -0.07      | 2.88        | 2.19     |
| 849  | 3           | 20          | 10         | 0            | -0.03   | -0.07   | 11.49   | 0.60       | -8.63      | -0.08      | 2.88        | 2.19     |
| 878  | 3           | 20          | 15         | 0            | -0.04   | 0.01    | 11.49   | 1.45       | -8.75      | -0.01      | 2.84        | 2.23     |
| 1053 | 6           | -10         | -15        | 0            | -0.03   | 0.02    | 11.49   | -3.10      | -12.43     | -0.08      | 3.13        | 3.29     |
| 1049 | 6           | -10         | -10        | 0            | -0.04   | 0.07    | 11.49   | -2.01      | -12.76     | -0.08      | 3.14        | 3.28     |
| 1044 | 6           | -10         | -5         | 0            | -0.02   | 0.11    | 11.49   | -0.87      | -12.74     | -0.11      | 3.17        | 3.25     |
| 1011 | 6           | -10         | 0          | 0            | -0.02   | 0.02    | 11.49   | 0.16       | -12.11     | -0.05      | 3.22        | 3.20     |
| 1033 | 6           | -10         | 0          | 0            | -0.01   | 0.03    | 11.49   | 0.20       | -12.31     | -0.06      | 3.21        | 3.21     |
| 1040 | 6           | -10         | 5          | 0            | -0.04   | 0.05    | 11.49   | 1.31       | -12.61     | -0.05      | 3.18        | 3.24     |
| 1015 | 6           | -10         | 10         | 0            | -0.03   | 0.04    | 11.49   | 2.32       | -12.21     | -0.05      | 3.21        | 3.21     |
| 1019 | 6           | -10         | 15         | 0            | -0.03   | -0.02   | 11.49   | 3.36       | -12.11     | -0.05      | 3.19        | 3.23     |
| 1035 | 6           | -10         | 15         | 0            | -0.02   | 0.08    | 11.49   | 3.43       | -11.99     | -0.06      | 3.21        | 3.21     |
| 937  | 6           | 0           | -15        | 0            | -0.01   | -0.01   | 11.49   | -3.35      | -11.98     | -0.09      | 3.21        | 3.27     |
| 933  | 6           | 0           | -10        | 0            | -0.01   | -0.00   | 11.49   | -2.29      | -12.26     | -0.10      | 3.21        | 3.27     |
| 929  | 6           | 0           | -5         | 0            | -0.01   | -0.03   | 11.49   | -1.26      | -12.46     | -0.14      | 3.21        | 3.27     |
| 912  | 6           | 0           | 0          | 0            | 0.03    | -0.05   | 11.49   | -0.19      | -12.40     | -0.07      | 3.22        | 3.26     |
| 917  | 6           | 0           | 5          | 0            | -0.02   | -0.04   | 11.49   | 0.92       | -12.62     | -0.06      | 3.18        | 3.30     |
| 921  | 6           | 0           | 10         | 0            | -0.02   | -0.02   | 11.49   | 2.00       | -12.28     | -0.08      | 3.24        | 3.24     |
| 925  | 6           | 0           | 15         | 0            | -0.03   | 0.07    | 11.49   | 3.10       | -12.19     | -0.07      | 3.22        | 3.26     |
| 978  | 6           | 10          | -15        | 0            | -0.01   | -0.00   | 11.49   | -3.65      | -11.93     | -0.09      | 3.16        | 3.26     |
| 974  | 6           | 10          | -10        | 0            | -0.02   | 0.04    | 11.49   | -2.59      | -12.22     | -0.13      | 3.18        | 3.24     |
| 970  | 6           | 10          | -5         | 0            | -0.04   | 0.08    | 11.49   | -1.45      | -12.23     | -0.08      | 3.21        | 3.21     |
| 954  | 6           | 10          | 0          | 0            | -0.03   | 0.06    | 11.49   | -0.37      | -12.53     | -0.08      | 3.20        | 3.22     |
| 958  | 6           | 10          | 5          | 0            | -0.00   | -0.01   | 11.49   | 0.62       | -12.54     | -0.08      | 3.17        | 3.25     |
| 962  | 6           | 10          | 10         | 0            | -0.02   | -0.02   | 11.49   | 1.69       | -12.27     | -0.07      | 3.20        | 3.22     |
| 966  | 6           | 10          | 15         | 0            | -0.04   | 0.03    | 11.49   | 2.77       | -12.25     | -0.06      | 3.20        | 3.22     |
| 1002 | 6           | 20          | -15        | 0            | -0.01   | 0.02    | 11.49   | -3.73      | -11.41     | -0.06      | 3.21        | 3.02     |
| 998  | 6           | 20          | -10        | 0            | -0.03   | 0.04    | 11.49   | -2.71      | -11.64     | -0.09      | 3.22        | 3.01     |
| 994  | 6           | 20          | -5         | 0            | -0.02   | 0.02    | 11.49   | -1.69      | -11.63     | -0.07      | 3.25        | 2.96     |
| 982  | 6           | 20          | 0          | 0            | -0.02   | 0.00    | 11.49   | -0.65      | -11.77     | -0.05      | 3.27        | 2.96     |
| 986  | 6           | 20          | 5          | 0            | -0.02   | 0.03    | 11.49   | 0.38       | -11.79     | -0.06      | 3.27        | 2.96     |
| 990  | 6           | 20          | 10         | 0            | -0.02   | 0.03    | 11.49   | 1.38       | -11.80     | -0.05      | 3.26        | 2.97     |
| 1006 | 6           | 20          | 15         | 0            | -0.04   | -0.02   | 11.49   | 2.43       | -11.86     | -0.06      | 3.23        | 3.00     |

\* Indicates model was close to heave stop

TABLE 5.111.1 - STABILITY DATA IN WIND AXES WITHOUT AIR TARES

10 deg Deadrise, L/R = 0.117, Cv = 1.5

| RUN | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|-----|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 754 | 0           | -10         | -15        | 7.34         | 2.38    | -1.52   | 11.49   | 1.74       | 2.49       | -2.35      | 2.11        | 1.98     |
| 750 | 0           | -10         | -10        | 7.34         | 1.80    | -0.96   | 11.49   | 0.98       | 1.74       | -1.77      | 2.29        | 1.80     |
| 746 | 0           | -10         | -5         | 7.35         | 1.50    | -0.39   | 11.49   | 0.67       | 1.42       | -1.11      | 2.34        | 1.75     |
| 733 | 0           | -10         | 0          | 7.36         | 1.40    | 0.09    | 11.49   | 0.46       | 1.24       | -0.48      | 2.37        | 1.72     |
| 737 | 0           | -10         | 5          | 7.35         | 1.53    | 0.67    | 11.49   | 0.13       | 1.16       | 0.15       | 2.27        | 1.82     |
| 741 | 0           | -10         | 10         | 7.35         | 2.22    | 1.97    | 11.49   | -1.09      | 1.85       | 1.40       | 1.96        | 2.13     |
| 665 | 0           | 0           | -10        | 7.38         | 2.01    | -0.92   | 11.49   | 0.63       | 1.39       | -1.83      | 1.94        | 2.21     |
| 661 | 0           | 0           | -5         | 7.36         | 1.56    | -0.36   | 11.49   | 0.30       | 1.20       | -0.81      | 2.11        | 2.04     |
| 649 | 0           | 0           | 0          | 7.40         | 1.37    | 0.14    | 11.49   | 0.02       | 1.31       | -0.21      | 2.23        | 1.92     |
| 652 | 0           | 0           | 5          | 7.37         | 1.41    | 0.42    | 11.49   | -0.19      | 1.34       | 0.25       | 2.19        | 1.96     |
| 657 | 0           | 0           | 10         | 7.39         | 1.74    | 0.87    | 11.49   | -0.67      | 1.56       | 0.89       | 2.05        | 2.10     |
| 690 | 0           | 10          | -10        | 7.40         | 2.30    | -1.90   | 11.49   | 0.43       | 0.47       | -2.74      | 1.79        | 2.30     |
| 686 | 0           | 10          | -5         | 7.38         | 1.60    | -0.51   | 11.49   | -0.36      | 0.44       | -1.13      | 2.06        | 2.03     |
| 669 | 0           | 10          | 0          | 7.38         | 1.45    | 0.12    | 11.49   | -0.52      | 0.74       | -0.30      | 2.16        | 1.93     |
| 673 | 0           | 10          | 5          | 7.38         | 1.46    | 0.54    | 11.49   | -0.78      | 1.32       | 0.20       | 2.17        | 1.92     |
| 677 | 0           | 10          | 10         | 7.38         | 1.70    | 1.05    | 11.49   | -1.00      | 1.71       | 0.87       | 2.11        | 1.98     |
| 682 | 0           | 10          | 15         | 7.37         | 2.27    | 1.86    | 11.49   | -1.45      | 2.34       | 1.52       | 1.97        | 2.12     |
| 729 | 0           | 20          | -10        | 7.35         | 2.44    | -3.17   | 11.49   | 0.16       | -0.15      | -3.36      | 1.94        | 1.96     |
| 725 | 0           | 20          | -5         | 7.36         | 1.53    | -0.80   | 11.49   | -0.50      | -0.20      | -1.65      | 2.24        | 1.66     |
| 708 | 0           | 20          | 0          | 7.36         | 1.29    | 0.02    | 11.49   | -0.79      | 0.09       | -0.67      | 2.37        | 1.53     |
| 712 | 0           | 20          | 5          | 7.36         | 1.38    | 0.68    | 11.49   | -0.99      | 0.55       | 0.09       | 2.36        | 1.54     |
| 716 | 0           | 20          | 10         | 7.36         | 1.62    | 1.68    | 11.49   | -1.22      | 1.14       | 0.72       | 2.35        | 1.55     |
| 721 | 0           | 20          | 15         | 7.36         | 2.16    | 2.74    | 11.49   | -1.39      | 1.43       | 1.08       | 2.33        | 1.57     |
| 884 | 3           | -10         | -15        | 7.36         | 1.95    | -2.15   | 11.49   | -0.39      | -1.99      | 0.46       | 2.62        | 2.64     |
| 888 | 3           | -10         | -10        | 7.36         | 1.43    | -1.26   | 11.49   | -0.33      | -3.57      | 0.07       | 2.70        | 2.56     |
| 892 | 3           | -10         | -5         | 7.36         | 1.27    | -0.46   | 11.49   | -0.02      | -4.26      | -0.34      | 2.67        | 2.59     |
| 896 | 3           | -10         | 0          | 7.36         | 1.25    | 0.21    | 11.49   | 0.35       | -4.47      | -0.54      | 2.68        | 2.58     |
| 900 | 3           | -10         | 5          | 7.36         | 1.39    | 1.00    | 11.49   | 0.71       | -4.39      | -0.78      | 2.59        | 2.67     |
| 904 | 3           | -10         | 10         | 7.36         | 1.91    | 2.31    | 11.49   | 0.54       | -3.74      | -1.25      | 2.39        | 2.87     |
| 908 | 3           | -10         | 15         | 7.36         | 3.17    | 4.87    | 11.49   | -0.43      | -2.48      | -1.74      | 2.02        | 3.24     |
| 803 | 3           | 0           | -15        | 7.37         | 2.00    | -1.82   | 11.49   | -0.87      | -2.70      | 0.29       | 2.42        | 2.90     |
| 799 | 3           | 0           | -10        | 7.38         | 1.55    | -0.97   | 11.49   | -0.85      | -3.99      | 0.16       | 2.53        | 2.79     |
| 795 | 3           | 0           | -5         | 7.46         | 1.28    | -0.27   | 11.49   | -0.56      | -4.52      | -0.07      | 2.66        | 2.66     |
| 760 | 3           | 0           | 0          | 7.36         | 1.14    | 0.26    | 11.49   | -0.10      | -4.69      | -0.30      | 2.81        | 2.51     |
| 764 | 3           | 0           | 5          | 7.35         | 1.32    | 0.92    | 11.49   | 0.35       | -4.51      | -0.64      | 2.76        | 2.56     |
| 768 | 3           | 0           | 10         | 7.36         | 1.68    | 1.68    | 11.49   | 0.56       | -3.61      | -1.12      | 2.66        | 2.66     |
| 809 | 3           | 0           | 10         | 7.37         | 1.69    | 1.76    | 11.49   | 0.52       | -3.64      | -1.06      | 2.50        | 2.82     |
| 772 | 3           | 0           | 15         | 7.36         | 2.46    | 3.18    | 11.49   | 0.11       | -2.21      | -1.75      | 2.43        | 2.89     |
| 789 | 3           | 0           | 15         | 7.35         | 2.41    | 3.13    | 11.49   | 0.17       | -2.27      | -1.67      | 2.31        | 3.01     |

\* Indicates model was close to heave stop

TABLE 5.111.2 - STABILITY DATA IN WIND AXES WITHOUT AIR TARES

10 deg Deadrise, L/R = 0.117, Cv = 1.5

| RUN  | Trim deg | Roll deg | Yaw deg | Speed fps | X lb | Y lb  | Z lb  | K lb-ft | M lb-ft | N lb-ft | Heave in | TD in |
|------|----------|----------|---------|-----------|------|-------|-------|---------|---------|---------|----------|-------|
| 837  | 3        | 10       | -15     | 7.37      | 2.52 | -3.11 | 11.49 | -0.80   | -3.99   | -0.02   | 2.23     | 3.03  |
| 833  | 3        | 10       | -10     | 7.37      | 1.60 | -1.10 | 11.49 | -1.21   | -4.73   | 0.07    | 2.54     | 2.72  |
| 840  | 3        | 10       | -10     | 7.37      | 1.91 | -1.55 | 11.49 | -1.51   | -4.70   | 0.06    | 2.38     | 2.88  |
| 830  | 3        | 10       | -5      | 7.37      | 1.31 | -0.22 | 11.49 | -1.01   | -5.03   | -0.02   | 2.66     | 2.60  |
| 812  | 3        | 10       | 0       | 7.39      | 1.24 | 0.43  | 11.49 | -0.59   | -4.88   | -0.17   | 2.67     | 2.59  |
| 813  | 3        | 10       | 0       | 7.37      | 1.21 | 0.43  | 11.49 | -0.56   | -4.94   | -0.16   | 2.69     | 2.57  |
| 817  | 3        | 10       | 5       | 7.37      | 1.26 | 1.01  | 11.49 | -0.18   | -4.74   | -0.41   | 2.72     | 2.54  |
| 821  | 3        | 10       | 10      | 7.37      | 1.54 | 1.83  | 11.49 | 0.18    | -4.01   | -0.94   | 2.69     | 2.57  |
| 825  | 3        | 10       | 15      | 7.37      | 2.09 | 2.79  | 11.49 | 0.31    | -2.67   | -1.57   | 2.63     | 2.63  |
| 876  | 3        | 20       | -15     | 7.36      | 3.10 | -4.85 | 11.49 | -0.42   | -4.13   | -0.49   | 2.13     | 2.94  |
| 871  | 3        | 20       | -10     | 7.36      | 1.83 | -1.92 | 11.49 | -1.19   | -4.73   | -0.31   | 2.47     | 2.60  |
| 854  | 3        | 20       | -5      | 7.37      | 1.44 | -0.54 | 11.49 | -1.21   | -5.00   | -0.27   | 2.62     | 2.45  |
| 842  | 3        | 20       | 0       | 7.37      | 1.37 | 0.37  | 11.49 | -0.90   | -4.92   | -0.25   | 2.67     | 2.40  |
| 846  | 3        | 20       | 5       | 7.37      | 1.48 | 1.33  | 11.49 | -0.69   | -4.74   | -0.55   | 2.69     | 2.38  |
| 850  | 3        | 20       | 10      | 7.37      | 1.85 | 2.54  | 11.49 | -0.38   | -4.18   | -1.10   | 2.74     | 2.33  |
| 879  | 3        | 20       | 15      | 7.36      | 2.32 | 3.45  | 11.49 | 0.01    | -3.32   | -1.58   | 2.75     | 2.32  |
| 1054 | 6        | -10      | -15     | 7.35      | 2.31 | -2.79 | 11.49 | -1.52   | -6.70   | 2.55    | 3.23     | 3.19  |
| 1050 | 6        | -10      | -10     | 7.36      | 1.90 | -1.88 | 11.49 | -1.07   | -7.96   | 1.46    | 3.24     | 3.18  |
| 1045 | 6        | -10      | -5      | 7.36      | 1.69 | -0.74 | 11.49 | -0.42   | -8.55   | 0.21    | 3.25     | 3.17  |
| 1012 | 6        | -10      | 0       | 7.34      | 1.62 | 0.13  | 11.49 | 0.17    | -8.31   | -0.65   | 3.25     | 3.17  |
| 1034 | 6        | -10      | 0       | 7.42      | 1.56 | 0.15  | 11.49 | 0.15    | -8.43   | -0.68   | 3.26     | 3.16  |
| 1039 | 6        | -10      | 5       | 7.36      | 1.79 | 1.08  | 11.49 | 0.69    | -8.47   | -1.63   | 3.11     | 3.31  |
| 1016 | 6        | -10      | 10      | 7.34      | 2.27 | 2.64  | 11.49 | 1.10    | -7.91   | -2.92   | 2.98     | 3.44  |
| 1020 | 6        | -10      | 15      | 7.34      | 3.42 | 5.26  | 11.49 | 0.85    | -7.02   | -5.02   | 2.70     | 3.72  |
| 1038 | 6        | -10      | 15      | 7.36      | 3.32 | 5.26  | 11.49 | 1.09    | -7.33   | -4.96   | 2.69     | 3.73  |
| 938  | 6        | 0        | -15     | 7.36      | 2.30 | -2.36 | 11.49 | -1.98   | -7.18   | 2.49    | 3.14     | 3.34  |
| 934  | 6        | 0        | -10     | 7.36      | 1.84 | -1.50 | 11.49 | -1.50   | -7.81   | 1.57    | 3.23     | 3.25  |
| 930  | 6        | 0        | -5      | 7.36      | 1.62 | -0.63 | 11.49 | -1.00   | -8.33   | 0.39    | 3.28     | 3.20  |
| 913  | 6        | 0        | 0       | 7.36      | 1.55 | 0.31  | 11.49 | -0.17   | -8.58   | -0.57   | 3.30     | 3.18  |
| 918  | 6        | 0        | 5       | 7.36      | 1.67 | 1.19  | 11.49 | 0.46    | -8.25   | -1.52   | 3.24     | 3.24  |
| 922  | 6        | 0        | 10      | 7.36      | 1.99 | 2.04  | 11.49 | 1.00    | -7.60   | -2.53   | 3.20     | 3.28  |
| 926  | 6        | 0        | 15      | 7.36      | 2.70 | 3.53  | 11.49 | 1.21    | -6.85   | -4.05   | 3.06     | 3.42  |
| 979  | 6        | 10       | -15     | 7.36      | 2.53 | -2.91 | 11.49 | -2.11   | -7.99   | 2.66    | 2.96     | 3.46  |
| 975  | 6        | 10       | -10     | 7.36      | 1.91 | -1.30 | 11.49 | -1.87   | -8.59   | 1.34    | 3.13     | 3.29  |
| 971  | 6        | 10       | -5      | 7.36      | 1.56 | -0.12 | 11.49 | -1.15   | -8.83   | 0.46    | 3.25     | 3.17  |
| 955  | 6        | 10       | 0       | 7.35      | 1.57 | 0.80  | 11.49 | -0.44   | -8.94   | -0.45   | 3.28     | 3.14  |
| 959  | 6        | 10       | 5       | 7.36      | 1.73 | 1.68  | 11.49 | 0.14    | -8.60   | -1.47   | 3.27     | 3.15  |
| 963  | 6        | 10       | 10      | 7.36      | 1.97 | 2.45  | 11.49 | 0.73    | -7.70   | -2.52   | 3.30     | 3.12  |
| 967  | 6        | 10       | 15      | 7.36      | 2.39 | 3.16  | 11.49 | 1.31    | -7.24   | -3.38   | 3.30     | 3.12  |
| 1003 | 6        | 20       | -15     | 7.36      | 3.00 | -4.19 | 11.49 | -1.85   | -8.09   | 2.79    | 2.82     | 3.41  |
| 999  | 6        | 20       | -10     | 7.36      | 2.05 | -1.81 | 11.49 | -1.86   | -8.47   | 1.43    | 3.08     | 3.15  |
| 995  | 6        | 20       | -5      | 7.36      | 1.64 | -0.29 | 11.49 | -1.47   | -8.66   | 0.41    | 3.24     | 2.99  |
| 983  | 6        | 20       | 0       | 7.36      | 1.58 | 0.93  | 11.49 | -0.85   | -8.70   | -0.47   | 3.33     | 2.90  |
| 987  | 6        | 20       | 5       | 7.36      | 1.81 | 2.33  | 11.49 | -0.27   | -8.50   | -1.69   | 3.37     | 2.86  |
| 991  | 6        | 20       | 10      | 7.36      | 2.22 | 3.38  | 11.49 | 0.30    | -7.92   | -2.84   | 3.37     | 2.86  |
| 1007 | 6        | 20       | 15      | 7.34      | 2.68 | 3.64  | 11.49 | 0.94    | -7.38   | -3.32   | 3.49     | 2.74  |

\* Indicates model was close to heave stop

TABLE 5.113.1 - STABILITY DATA IN WIND AXES WITHOUT AIR TARES

10 deg Deadrise, L/R = 0.117, Cv = 3

| RUN   | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|-------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 755   | 0           | -10         | -15        | 14.67        | 5.59    | -3.59   | 11.49   | 3.55       | 14.13      | -4.06      | 2.81        | 1.26     |
| 758   | 0           | -10         | -15        | 14.74        | 5.56    | -3.69   | 11.49   | 3.35       | 14.05      | -4.19      | 2.82        | 1.27     |
| 751   | 0           | -10         | -10        | 14.68        | 5.44    | -3.30   | 11.49   | 2.31       | 12.86      | -3.82      | 2.53        | 1.56     |
| 747   | 0           | -10         | -5         | 14.67        | 4.47    | -1.89   | 11.49   | 1.06       | 8.60       | -2.94      | 2.46        | 1.63     |
| 734   | 0           | -10         | 0          | 14.71        | 4.11    | 0.25    | 11.49   | 0.37       | 5.63       | -2.94      | 2.47        | 1.62     |
| 738   | 0           | -10         | 5          | 14.68        | 5.82    | 4.02    | 11.49   | -1.16      | 7.46       | -2.67      | 2.10        | 1.99     |
| 742   | 0           | -10         | 10         | 14.68        | 9.99    | 14.92   | 11.49   | -4.92      | 9.97       | -1.26      | 1.57        | 2.52     |
| 666 * | 0           | 0           | -10        | 14.75        | 9.18    | -8.88   | 11.49   | 2.82       | 7.09       | -5.94      | 1.41        | 2.74     |
| 662   | 0           | 0           | -5         | 14.74        | 4.98    | -1.79   | 11.49   | 0.63       | 6.18       | -0.80      | 2.18        | 1.97     |
| 650   | 0           | 0           | 0          | 14.72        | 3.82    | 0.36    | 11.49   | 0.04       | 5.41       | -0.87      | 2.35        | 1.80     |
| 654   | 0           | 0           | 5          | 14.74        | 5.15    | 2.75    | 11.49   | -0.99      | 8.02       | -1.47      | 2.08        | 2.07     |
| 658 * | 0           | 0           | 10         | 14.74        | 9.05    | 10.44   | 11.49   | -3.62      | 10.99      | -2.59      | 1.39        | 2.76     |
| 691 * | 0           | 10          | -10        | 14.74        | 9.83    | -12.21  | 11.49   | 3.60       | 3.09       | -9.89      | 1.40        | 2.69     |
| 687   | 0           | 10          | -5         | 14.75        | 5.19    | -2.77   | 11.49   | 0.36       | 2.76       | -1.99      | 2.07        | 2.02     |
| 670   | 0           | 10          | 0          | 14.73        | 3.82    | 0.03    | 11.49   | -0.45      | 3.13       | 0.46       | 2.40        | 1.69     |
| 674   | 0           | 10          | 5          | 14.74        | 4.14    | 1.83    | 11.49   | -1.00      | 7.15       | 0.71       | 2.31        | 1.78     |
| 678   | 0           | 10          | 10         | 14.74        | 5.22    | 4.22    | 11.49   | -1.96      | 10.37      | 0.40       | 2.36        | 1.73     |
| 683   | 0           | 10          | 15         | 14.75        | 5.29    | 4.74    | 11.49   | -2.10      | 10.34      | 0.62       | 2.67        | 1.42     |
| 730 * | 0           | 20          | -10        | 14.71        | 10.52   | -16.62  | 11.49   | 3.14       | 0.00       | -15.48     | 1.50        | 2.40     |
| 726   | 0           | 20          | -5         | 14.71        | 5.10    | -4.24   | 11.49   | 0.29       | -0.54      | -5.40      | 2.22        | 1.68     |
| 709   | 0           | 20          | 0          | 14.71        | 3.61    | -0.22   | 11.49   | -0.71      | 0.52       | -0.72      | 2.57        | 1.33     |
| 713   | 0           | 20          | 5          | 14.71        | 4.01    | 2.83    | 11.49   | -1.32      | 4.03       | 0.76       | 2.59        | 1.31     |
| 717   | 0           | 20          | 10         | 14.71        | 3.61    | 3.36    | 11.49   | -1.31      | 5.14       | 0.56       | 2.99        | 0.91     |
| 718   | 0           | 20          | 10         | 14.72        | 3.56    | 3.26    | 11.49   | -1.35      | 4.95       | 0.48       | 3.01        | 0.89     |
| 722   | 0           | 20          | 15         | 14.70        | 3.19    | 3.34    | 11.49   | -1.05      | 0.97       | -1.02      | 3.54        | 0.36     |
| 885   | 3           | -10         | -15        | 14.71        | 2.18    | -2.44   | 11.49   | -2.09      | -6.51      | 2.09       | 3.82        | 1.44     |
| 889   | 3           | -10         | -10        | 14.74        | 2.07    | -1.94   | 11.49   | -0.68      | -3.16      | 1.03       | 3.58        | 1.68     |
| 893   | 3           | -10         | -5         | 14.74        | 2.16    | -1.44   | 11.49   | 0.26       | -0.48      | 0.21       | 3.24        | 2.02     |
| 897   | 3           | -10         | 0          | 14.71        | 2.44    | 0.22    | 11.49   | 0.40       | -1.23      | -1.42      | 3.07        | 2.19     |
| 901   | 3           | -10         | 5          | 14.72        | 3.15    | 3.44    | 11.49   | 0.20       | -0.67      | -3.49      | 2.89        | 2.37     |
| 905   | 3           | -10         | 10         | 14.73        | 6.01    | 10.96   | 11.49   | -1.50      | 2.27       | -7.75      | 2.42        | 2.84     |
| 909 * | 3           | -10         | 15         | 14.74        | 13.92   | 27.06   | 11.49   | -7.65      | 9.43       | -9.58      | 1.45        | 3.81     |
| 804   | 3           | 0           | -15        | 14.75        | 3.95    | -4.24   | 11.49   | -0.68      | 0.09       | 3.20       | 3.10        | 2.22     |
| 800   | 3           | 0           | -10        | 14.75        | 2.85    | -1.95   | 11.49   | -0.83      | -0.92      | 1.41       | 3.15        | 2.17     |
| 796   | 3           | 0           | -5         | 14.74        | 2.23    | -0.51   | 11.49   | -0.51      | -1.37      | 0.39       | 3.18        | 2.14     |
| 761   | 3           | 0           | 0          | 14.72        | 2.03    | 0.43    | 11.49   | 0.04       | -2.01      | -0.47      | 3.29        | 2.03     |
| 806   | 3           | 0           | 0          | 14.74        | 2.02    | 0.39    | 11.49   | -0.06      | -1.36      | -0.45      | 3.18        | 2.14     |
| 765   | 3           | 0           | 5          | 14.72        | 2.50    | 2.06    | 11.49   | 0.41       | -1.73      | -1.94      | 3.27        | 2.05     |
| 807   | 3           | 0           | 5          | 14.74        | 2.51    | 1.89    | 11.49   | 0.19       | -1.21      | -1.84      | 3.13        | 2.19     |
| 769   | 3           | 0           | 10         | 14.74        | 3.51    | 4.63    | 11.49   | 0.26       | -0.46      | -4.28      | 3.20        | 2.12     |
| 808   | 3           | 0           | 10         | 14.74        | 3.48    | 4.49    | 11.49   | 0.03       | -0.09      | -4.16      | 3.07        | 2.25     |
| 773   | 3           | 0           | 15         | 14.73        | 6.33    | 10.15   | 11.49   | -1.32      | 3.20       | -8.76      | 2.93        | 2.39     |
| 788   | 3           | 0           | 15         | 14.68        | 5.80    | 9.29    | 11.49   | -1.14      | 2.57       | -8.32      | 2.88        | 2.44     |

\* Indicates model was close to heave stop

TABLE 5.113.2 - STABILITY DATA IN WIND AXES WITHOUT AIR TARES

10 deg Deadrise, L/R = 0.117, Cv = 3

| RUN   | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|-------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 838   | 3           | 10          | -15        | 14.75        | 9.65    | -16.49  | 11.49   | 2.32       | 1.41       | 1.82       | 2.03        | 3.23     |
| 834   | 3           | 10          | -10        | 14.74        | 4.01    | -4.01   | 11.49   | -0.54      | -1.89      | 1.82       | 2.82        | 2.44     |
| 831   | 3           | 10          | -5         | 14.74        | 2.60    | -0.66   | 11.49   | -0.96      | -3.15      | 0.86       | 3.13        | 2.13     |
| 814   | 3           | 10          | 0          | 14.74        | 2.15    | 1.45    | 11.49   | -0.62      | -2.90      | -0.62      | 3.25        | 2.01     |
| 818   | 3           | 10          | 5          | 14.73        | 2.06    | 1.98    | 11.49   | 0.10       | -3.88      | -1.11      | 3.47        | 1.79     |
| 822   | 3           | 10          | 10         | 14.74        | 1.99    | 2.43    | 11.49   | 1.35       | -7.28      | -2.21      | 3.79        | 1.47     |
| 826   | 3           | 10          | 15         | 14.74        | 1.94    | 2.63    | 11.49   | 2.92       | -10.58     | -3.32      | 4.06        | 1.20     |
| 877 * | 3           | 20          | -15        | 14.72        | 14.10   | -28.38  | 11.49   | 4.18       | -1.70      | -8.74      | 1.47        | 3.60     |
| 872   | 3           | 20          | -10        | 14.70        | 5.42    | -8.26   | 11.49   | 0.20       | -2.98      | 0.27       | 2.55        | 2.52     |
| 855   | 3           | 20          | -5         | 14.75        | 3.22    | -1.61   | 11.49   | -0.98      | -3.91      | 0.74       | 2.99        | 2.08     |
| 868   | 3           | 20          | -5         | 14.71        | 3.09    | -1.37   | 11.49   | -1.06      | -3.99      | 0.75       | 3.07        | 2.00     |
| 843   | 3           | 20          | 0          | 14.74        | 2.58    | 1.65    | 11.49   | -1.08      | -4.06      | -0.52      | 3.24        | 1.83     |
| 847   | 3           | 20          | 5          | 14.75        | 2.15    | 3.54    | 11.49   | -0.52      | -5.03      | -2.16      | 3.55        | 1.52     |
| 851   | 3           | 20          | 10         | 14.74        | 2.09    | 3.57    | 11.49   | 0.49       | -8.75      | -3.50      | 4.08        | 0.99     |
| 880   | 3           | 20          | 15         | 14.71        | 1.91    | 2.99    | 11.49   | 1.68       | -11.46     | -3.83      | 4.47        | 0.60     |
| 1055  | 6           | -10         | -15        | 14.72        | 2.13    | -2.31   | 11.49   | -3.97      | -14.56     | 3.35       | 5.10        | 1.32     |
| 1051  | 6           | -10         | -10        | 14.74        | 2.07    | -2.18   | 11.49   | -2.25      | -13.02     | 2.76       | 4.86        | 1.56     |
| 1047  | 6           | -10         | -5         | 14.71        | 2.13    | -1.98   | 11.49   | -0.88      | -10.53     | 1.90       | 4.56        | 1.86     |
| 1013  | 6           | -10         | 0          | 14.67        | 2.08    | -1.09   | 11.49   | 0.44       | -8.60      | 0.56       | 4.29        | 2.13     |
| 1057  | 6           | -10         | 0          | 14.67        | 2.15    | -1.20   | 11.49   | 0.37       | -8.75      | 0.61       | 4.24        | 2.18     |
| 1041  | 6           | -10         | 5          | 14.67        | 2.61    | 1.45    | 11.49   | 0.67       | -8.10      | -2.81      | 4.01        | 2.41     |
| 1017  | 6           | -10         | 10         | 14.67        | 4.12    | 6.34    | 11.49   | 0.48       | -6.35      | -8.13      | 3.70        | 2.72     |
| 1021  | 6           | -10         | 15         | 14.67        | 8.42    | 17.03   | 11.49   | -1.93      | -2.74      | -17.20     | 3.06        | 3.36     |
| 1037  | 6           | -10         | 15         | 14.66        | 7.82    | 16.22   | 11.49   | -1.69      | -3.05      | -16.49     | 3.06        | 3.34     |
| 939   | 6           | 0           | -15        | 14.72        | 2.32    | -1.30   | 11.49   | -3.52      | -10.19     | 2.04       | 4.55        | 1.93     |
| 935   | 6           | 0           | -10        | 14.72        | 1.75    | -0.46   | 11.49   | -2.41      | -10.41     | 0.69       | 4.58        | 1.90     |
| 931   | 6           | 0           | -5         | 14.72        | 1.67    | -0.22   | 11.49   | -1.27      | -10.77     | 0.23       | 4.60        | 1.88     |
| 914   | 6           | 0           | 0          | 14.73        | 1.58    | 0.06    | 11.49   | -0.05      | -11.13     | -0.24      | 4.63        | 1.85     |
| 919   | 6           | 0           | 5          | 14.70        | 1.71    | 0.39    | 11.49   | 1.23       | -10.86     | -0.59      | 4.59        | 1.89     |
| 923   | 6           | 0           | 10         | 14.71        | 2.13    | 1.33    | 11.49   | 2.23       | -10.81     | -2.18      | 4.60        | 1.88     |
| 927   | 6           | 0           | 15         | 14.71        | 2.93    | 2.83    | 11.49   | 2.97       | -10.10     | -4.58      | 4.52        | 1.96     |
| 980   | 6           | 10          | -15        | 14.71        | 4.33    | -5.59   | 11.49   | -1.87      | -6.72      | 6.67       | 3.74        | 2.68     |
| 976   | 6           | 10          | -10        | 14.70        | 2.75    | -1.19   | 11.49   | -2.14      | -8.26      | 2.05       | 4.03        | 2.39     |
| 972   | 6           | 10          | -5         | 14.70        | 2.05    | 1.20    | 11.49   | -1.70      | -9.26      | -0.93      | 4.29        | 2.13     |
| 956   | 6           | 10          | 0          | 14.66        | 1.79    | 1.58    | 11.49   | -0.67      | -11.53     | -1.87      | 4.62        | 1.80     |
| 960   | 6           | 10          | 5          | 14.70        | 1.77    | 1.83    | 11.49   | 0.60       | -13.70     | -2.69      | 4.93        | 1.49     |
| 964   | 6           | 10          | 10         | 14.72        | 1.81    | 1.98    | 11.49   | 2.16       | -15.17     | -3.25      | 5.15        | 1.27     |
| 968   | 6           | 10          | 15         | 14.70        | 1.92    | 1.97    | 11.49   | 3.62       | -15.69     | -3.56      | 5.27        | 1.15     |
| 1004  | 6           | 20          | -15        | 14.71        | 7.05    | -13.42  | 11.49   | 0.53       | -6.02      | 10.09      | 3.17        | 3.06     |
| 1000  | 6           | 20          | -10        | 14.72        | 3.74    | -4.33   | 11.49   | -1.46      | -7.33      | 4.45       | 3.69        | 2.54     |
| 996   | 6           | 20          | -5         | 14.71        | 2.49    | 0.69    | 11.49   | -1.65      | -8.39      | 0.04       | 4.03        | 2.20     |
| 984   | 6           | 20          | 0          | 14.72        | 2.06    | 3.64    | 11.49   | -1.40      | -9.94      | -3.39      | 4.36        | 1.87     |
| 988   | 6           | 20          | 5          | 14.71        | 1.85    | 3.41    | 11.49   | -0.18      | -12.71     | -4.16      | 4.95        | 1.28     |
| 992   | 6           | 20          | 10         | 14.71        | 1.94    | 3.03    | 11.49   | 1.07       | -14.38     | -4.36      | 5.30        | 0.93     |
| 1008  | 6           | 20          | 15         | 14.67        | 2.03    | 2.60    | 11.49   | 2.45       | -15.49     | -4.29      | 5.55        | 0.68     |

\* Indicates model was close to heave stop



TABLE 5.114.1 - STABILITY DATA IN WIND AXES WITHOUT AIR TARES

10 deg Deadrise, L/R = 0.117, Cv = 4

| RUN   | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|-------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 756   | 0           | -10         | -15        | 19.63        | 4.85    | -3.28   | 11.49   | 2.07       | 9.87       | -1.91      | 3.37        | 0.72     |
| 757   | 0           | -10         | -15        | 19.69        | 4.83    | -3.29   | 11.49   | 1.97       | 9.80       | -1.91      | 3.38        | 0.71     |
| 752   | 0           | -10         | -10        | 19.61        | 5.89    | -2.73   | 11.49   | 2.82       | 17.52      | -4.17      | 3.02        | 1.07     |
| 748   | 0           | -10         | -5         | 19.63        | 7.28    | -2.67   | 11.49   | 1.52       | 19.52      | -5.38      | 2.49        | 1.60     |
| 735   | 0           | -10         | 0          | 19.61        | 7.37    | -0.60   | 11.49   | 0.18       | 12.33      | -5.33      | 2.36        | 1.73     |
| 739   | 0           | -10         | 5          | 19.63        | 12.12   | 9.42    | 11.49   | -2.40      | 14.31      | -5.18      | 1.56        | 2.53     |
| 743   | 0           | -10         | 10         | 19.63        | 16.45   | 24.48   | 11.49   | -8.47      | 18.39      | -1.29      | 1.56        | 2.53     |
| 667 * | 0           | 0           | -10        | 19.68        | 15.28   | -14.37  | 11.49   | 3.95       | 15.42      | -11.98     | 1.41        | 2.74     |
| 663   | 0           | 0           | -5         | 19.68        | 9.75    | -2.35   | 11.49   | 1.40       | 15.47      | -2.31      | 1.96        | 2.19     |
| 651   | 0           | 0           | 0          | 19.70        | 6.92    | 0.21    | 11.49   | 0.14       | 13.06      | -1.47      | 2.21        | 1.94     |
| 655   | 0           | 0           | 5          | 19.70        | 7.82    | 3.57    | 11.49   | -1.69      | 15.95      | -2.29      | 2.21        | 1.94     |
| 659 * | 0           | 0           | 10         | 19.67        | 14.74   | 15.21   | 11.49   | -6.34      | 21.00      | -2.76      | 1.40        | 2.75     |
| 692 * | 0           | 10          | -10        | 19.67        | 16.91   | -20.96  | 11.49   | 6.18       | 6.52       | -19.54     | 1.41        | 2.68     |
| 688 * | 0           | 10          | -5         | 19.67        | 12.27   | -7.66   | 11.49   | 1.67       | 8.49       | -8.73      | 1.41        | 2.68     |
| 671   | 0           | 10          | 0          | 19.67        | 7.01    | 0.19    | 11.49   | -0.78      | 8.22       | 1.47       | 2.30        | 1.79     |
| 675   | 0           | 10          | 5          | 19.67        | 6.55    | 2.26    | 11.49   | -1.31      | 14.23      | 1.22       | 2.42        | 1.67     |
| 679   | 0           | 10          | 10         | 19.68        | 5.19    | 2.74    | 11.49   | -1.03      | 10.41      | 1.05       | 2.92        | 1.17     |
| 680   | 0           | 10          | 10         | 19.67        | 5.08    | 2.68    | 11.49   | -0.98      | 10.20      | 1.03       | 2.94        | 1.15     |
| 684   | 0           | 10          | 15         | 19.70        | 4.67    | 3.75    | 11.49   | -0.31      | 5.05       | -0.45      | 3.20        | 0.89     |
| 731 * | 0           | 20          | -10        | 19.61        | 17.95   | -28.74  | 11.49   | 6.72       | 3.84       | -28.24     | 1.50        | 2.40     |
| 727 * | 0           | 20          | -5         | 19.61        | 12.50   | -11.34  | 11.49   | 1.74       | 3.99       | -16.64     | 1.49        | 2.41     |
| 710   | 0           | 20          | 0          | 19.63        | 6.61    | -0.45   | 11.49   | -0.63      | 3.63       | -1.44      | 2.46        | 1.44     |
| 714   | 0           | 20          | 5          | 19.63        | 5.66    | 2.92    | 11.49   | -1.37      | 8.19       | 0.95       | 2.78        | 1.12     |
| 719   | 0           | 20          | 10         | 19.62        | 4.05    | 2.75    | 11.49   | -1.44      | 2.71       | -0.72      | 3.53        | 0.37     |
| 723   | 0           | 20          | 15         | 19.61        | 2.37    | 1.69    | 11.49   | -0.56      | -4.17      | -1.08      | 4.04        | -0.14    |
| 886   | 3           | -10         | -15        | 19.68        | 2.10    | -2.25   | 11.49   | -2.96      | -10.56     | 2.71       | 4.19        | 1.07     |
| 890   | 3           | -10         | -10        | 19.69        | 2.10    | -1.93   | 11.49   | -1.73      | -8.30      | 2.02       | 4.04        | 1.22     |
| 894   | 3           | -10         | -5         | 19.69        | 2.69    | -1.57   | 11.49   | -0.07      | -2.92      | 0.73       | 3.68        | 1.58     |
| 898   | 3           | -10         | 0          | 19.68        | 3.03    | -0.08   | 11.49   | 0.57       | 0.30       | -1.29      | 3.37        | 1.89     |
| 902   | 3           | -10         | 5          | 19.68        | 4.68    | 5.09    | 11.49   | -0.07      | 2.38       | -5.75      | 3.07        | 2.19     |
| 906   | 3           | -10         | 10         | 19.69        | 10.14   | 19.14   | 11.49   | -3.62      | 9.18       | -13.29     | 2.38        | 2.88     |
| 910 * | 3           | -10         | 15         | 19.69        | 23.88   | 47.70   | 11.49   | -13.17     | 21.72      | -15.26     | 1.45        | 3.81     |
| 805   | 3           | 0           | -15        | 19.69        | 4.38    | -3.76   | 11.49   | -2.01      | -2.31      | 3.82       | 3.53        | 1.79     |
| 801   | 3           | 0           | -10        | 19.69        | 3.28    | -1.47   | 11.49   | -1.56      | -2.82      | 1.21       | 3.55        | 1.77     |
| 797   | 3           | 0           | -5         | 19.69        | 2.59    | -0.36   | 11.49   | -0.72      | -2.64      | 0.25       | 3.57        | 1.75     |
| 762   | 3           | 0           | 0          | 19.70        | 2.56    | 0.38    | 11.49   | 0.17       | -2.73      | -0.21      | 3.65        | 1.67     |
| 793   | 3           | 0           | 0          | 19.69        | 2.53    | 0.16    | 11.49   | -0.03      | -2.05      | -0.08      | 3.54        | 1.78     |
| 766   | 3           | 0           | 5          | 19.70        | 3.11    | 1.81    | 11.49   | 0.85       | -3.28      | -1.83      | 3.66        | 1.66     |
| 792   | 3           | 0           | 5          | 19.68        | 2.96    | 1.53    | 11.49   | 0.57       | -2.89      | -1.60      | 3.58        | 1.74     |
| 770   | 3           | 0           | 10         | 19.67        | 4.12    | 4.41    | 11.49   | 1.13       | -2.20      | -4.75      | 3.61        | 1.71     |
| 791   | 3           | 0           | 10         | 19.67        | 3.95    | 4.02    | 11.49   | 0.75       | -1.86      | -4.53      | 3.50        | 1.82     |
| 774   | 3           | 0           | 15         | 19.69        | 7.47    | 11.10   | 11.49   | -0.57      | 2.76       | -11.43     | 3.35        | 1.97     |
| 787   | 3           | 0           | 15         | 19.63        | 6.66    | 9.87    | 11.49   | -0.37      | 1.60       | -10.79     | 3.33        | 1.99     |

\* Indicates model was close to heave stop

TABLE 5.114.2 - STABILITY DATA IN WIND AXES WITHOUT AIR TARES

10 deg Deadrise, L/R = 0.117, Cv = 4

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 839  | 3           | 10          | -15        | 19.68        | 20.87   | -37.79  | 11.49   | 4.49       | 10.99      | -4.20      | 1.54        | 3.72     |
| 835  | 3           | 10          | -10        | 19.69        | 5.96    | -5.52   | 11.49   | -0.32      | 0.66       | 2.93       | 3.01        | 2.25     |
| 829  | 3           | 10          | -5         | 19.70        | 3.70    | -0.01   | 11.49   | -1.22      | -1.65      | 0.38       | 3.37        | 1.89     |
| 815  | 3           | 10          | 0          | 19.70        | 2.59    | 1.68    | 11.49   | -0.59      | -5.08      | -1.15      | 3.71        | 1.55     |
| 819  | 3           | 10          | 5          | 19.69        | 2.06    | 2.02    | 11.49   | 0.49       | -9.62      | -2.34      | 4.02        | 1.24     |
| 823  | 3           | 10          | 10         | 19.69        | 1.92    | 2.12    | 11.49   | 1.64       | -12.08     | -2.95      | 4.23        | 1.03     |
| 827  | 3           | 10          | 15         | 19.69        | 1.88    | 2.16    | 11.49   | 2.91       | -13.20     | -3.36      | 4.33        | 0.93     |
| 873  | 3           | 20          | -10        | 19.67        | 9.49    | -16.07  | 11.49   | 1.64       | -0.11      | -0.07      | 2.45        | 2.62     |
| 874  | 3           | 20          | -10        | 19.69        | 9.36    | -15.68  | 11.49   | 1.79       | -0.23      | -0.09      | 2.24        | 2.83     |
| 869  | 3           | 20          | -5         | 19.67        | 4.78    | -1.72   | 11.49   | -1.07      | -1.72      | 0.65       | 3.18        | 1.89     |
| 844  | 3           | 20          | 0          | 19.73        | 3.53    | 2.61    | 11.49   | -1.69      | -4.24      | -1.77      | 3.56        | 1.51     |
| 848  | 3           | 20          | 5          | 19.70        | 2.29    | 3.12    | 11.49   | -0.57      | -8.40      | -2.90      | 4.10        | 0.97     |
| 852  | 3           | 20          | 10         | 19.73        | 1.93    | 2.59    | 11.49   | 0.64       | -12.66     | -3.31      | 4.58        | 0.49     |
| 881  | 3           | 20          | 15         | 19.69        | 1.60    | 2.06    | 11.49   | 2.07       | -14.84     | -3.10      | 4.83        | 0.24     |
| 1056 | 6           | -10         | -15        | 19.64        | 2.01    | -1.95   | 11.49   | -4.36      | -17.28     | 2.75       | 5.48        | 0.94     |
| 1052 | 6           | -10         | -10        | 19.64        | 1.93    | -1.80   | 11.49   | -2.59      | -16.45     | 2.51       | 5.38        | 1.04     |
| 1048 | 6           | -10         | -5         | 19.64        | 1.99    | -1.56   | 11.49   | -1.04      | -15.31     | 2.12       | 5.22        | 1.20     |
| 1014 | 6           | -10         | 0          | 19.63        | 2.17    | -1.13   | 11.49   | 0.54       | -12.60     | 1.07       | 4.96        | 1.46     |
| 1043 | 6           | -10         | 0          | 19.61        | 2.13    | -1.41   | 11.49   | 0.43       | -13.17     | 1.53       | 4.95        | 1.47     |
| 1042 | 6           | -10         | 5          | 19.61        | 2.78    | 0.97    | 11.49   | 1.20       | -10.72     | -2.13      | 4.69        | 1.73     |
| 1018 | 6           | -10         | 10         | 19.62        | 4.84    | 6.94    | 11.49   | 0.73       | -7.41      | -9.95      | 4.28        | 2.16     |
| 1022 | 6           | -10         | 15         | 19.63        | 11.14   | 23.07   | 11.49   | -3.40      | -1.75      | -26.43     | 3.53        | 2.89     |
| 1036 | 6           | -10         | 15         | 19.62        | 10.02   | 21.48   | 11.49   | -3.11      | -2.19      | -25.30     | 3.56        | 2.86     |
| 940  | 6           | 0           | -15        | 19.70        | 1.89    | -0.92   | 11.49   | -5.08      | -15.36     | 1.57       | 5.26        | 1.22     |
| 936  | 6           | 0           | -10        | 19.67        | 1.63    | -0.60   | 11.49   | -3.48      | -16.04     | 0.82       | 5.30        | 1.18     |
| 932  | 6           | 0           | -5         | 19.69        | 1.55    | -0.15   | 11.49   | -1.80      | -16.41     | 0.10       | 5.33        | 1.15     |
| 915  | 6           | 0           | 0          | 19.68        | 1.56    | 0.33    | 11.49   | 0.01       | -16.45     | -0.57      | 5.31        | 1.17     |
| 916  | 6           | 0           | 0          | 19.68        | 1.52    | 0.28    | 11.49   | -0.06      | -16.61     | -0.60      | 5.32        | 1.16     |
| 920  | 6           | 0           | 5          | 19.69        | 1.56    | 0.62    | 11.49   | 1.67       | -16.32     | -1.21      | 5.33        | 1.15     |
| 924  | 6           | 0           | 10         | 19.69        | 1.79    | 0.92    | 11.49   | 3.33       | -15.91     | -1.86      | 5.28        | 1.20     |
| 928  | 6           | 0           | 15         | 19.69        | 2.13    | 1.37    | 11.49   | 4.73       | -14.92     | -2.84      | 5.26        | 1.22     |
| 981  | 6           | 10          | -15        | 19.67        | 4.61    | -4.91   | 11.49   | -2.85      | -8.25      | 7.25       | 4.44        | 1.98     |
| 977  | 6           | 10          | -10        | 19.67        | 2.80    | -0.54   | 11.49   | -3.17      | -10.96     | 1.23       | 4.75        | 1.67     |
| 973  | 6           | 10          | -5         | 19.68        | 1.92    | 1.05    | 11.49   | -2.37      | -13.44     | -1.38      | 5.08        | 1.34     |
| 957  | 6           | 10          | 0          | 19.62        | 1.73    | 1.12    | 11.49   | -1.21      | -15.78     | -2.00      | 5.27        | 1.15     |
| 961  | 6           | 10          | 5          | 19.68        | 1.64    | 1.16    | 11.49   | 0.23       | -16.60     | -2.29      | 5.41        | 1.01     |
| 965  | 6           | 10          | 10         | 19.67        | 1.64    | 1.29    | 11.49   | 1.79       | -17.22     | -2.59      | 5.49        | 0.93     |
| 969  | 6           | 10          | 15         | 19.67        | 1.66    | 1.38    | 11.49   | 3.37       | -17.55     | -2.88      | 5.55        | 0.87     |
| 1005 | 6           | 20          | -15        | 19.69        | 10.88   | -22.16  | 11.49   | 2.59       | -4.48      | 18.13      | 3.36        | 2.87     |
| 1001 | 6           | 20          | -10        | 19.69        | 4.71    | -5.33   | 11.49   | -1.44      | -7.61      | 6.73       | 4.18        | 2.05     |
| 997  | 6           | 20          | -5         | 19.68        | 2.77    | 1.58    | 11.49   | -2.25      | -9.90      | -1.08      | 4.67        | 1.56     |
| 985  | 6           | 20          | 0          | 19.68        | 2.28    | 4.32    | 11.49   | -2.00      | -12.56     | -5.14      | 5.03        | 1.20     |
| 989  | 6           | 20          | 5          | 19.68        | 1.75    | 2.63    | 11.49   | -0.41      | -15.78     | -3.73      | 5.54        | 0.69     |
| 993  | 6           | 20          | 10         | 19.68        | 1.70    | 2.21    | 11.49   | 1.11       | -17.03     | -3.46      | 5.78        | 0.45     |
| 1010 | 6           | 20          | 10         | 19.61        | 1.65    | 1.91    | 11.49   | 0.96       | -16.98     | -3.34      | 5.78        | 0.45     |
| 1009 | 6           | 20          | 15         | 19.62        | 1.73    | 1.74    | 11.49   | 2.66       | -17.84     | -3.17      | 5.91        | 0.32     |

\* Indicates model was close to heave stop

TABLE 5.120.1 - STABILITY DATA IN WIND AXES WITHOUT AIR TARES

10 deg Deadrise, L/R = 0.234, Cv = 0

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 2471 | 0           | -10         | -15        | 0            | 0.06    | -0.08   | 11.49   | -0.18      | -3.26      | 0.00       | 2.54        | 1.55     |
| 2482 | 0           | -10         | -10        | 0            | 0.02    | -0.06   | 11.49   | 0.10       | -3.24      | 0.02       | 2.51        | 1.58     |
| 2458 | 0           | -10         | -5         | 0            | 0.04    | -0.05   | 11.49   | 0.39       | -3.18      | -0.02      | 2.50        | 1.59     |
| 2427 | 0           | -10         | 0          | 0            | -0.12   | -0.08   | 11.49   | 0.59       | -2.79      | -0.03      | 2.79        | 1.30     |
| 2431 | 0           | -10         | 5          | 0            | -0.02   | -0.04   | 11.49   | 0.90       | -3.04      | 0.06       | 2.68        | 1.41     |
| 2435 | 0           | -10         | 10         | 0            | -0.02   | -0.04   | 11.49   | 1.18       | -2.97      | 0.03       | 2.67        | 1.42     |
| 2454 | 0           | -10         | 15         | 0            | 0.01    | -0.09   | 11.49   | 1.40       | -2.79      | -0.02      | 2.51        | 1.58     |
| 2348 | 0           | 0           | -15        | 0            | 0.04    | -0.07   | 11.49   | -0.86      | -3.34      | 0.01       | 2.62        | 1.53     |
| 2344 | 0           | 0           | -10        | 0            | 0.05    | -0.08   | 11.49   | -0.56      | -3.32      | 0.02       | 2.63        | 1.52     |
| 2340 | 0           | 0           | -5         | 0            | 0.05    | -0.09   | 11.49   | -0.25      | -3.32      | 0.05       | 2.61        | 1.54     |
| 2315 | 0           | 0           | 0          | 0            | 0.03    | -0.04   | 11.49   | 0.05       | -3.25      | 0.01       | 2.61        | 1.54     |
| 2329 | 0           | 0           | 5          | 0            | 0.04    | -0.04   | 11.49   | 0.32       | -3.24      | 0.02       | 2.65        | 1.50     |
| 2336 | 0           | 0           | 10         | 0            | 0.03    | -0.06   | 11.49   | 0.61       | -3.20      | 0.02       | 2.68        | 1.47     |
| 2395 | 0           | 10          | -10        | 0            | 0.10    | -0.16   | 11.49   | -1.24      | -3.38      | 0.05       | 2.55        | 1.54     |
| 2390 | 0           | 10          | -5         | 0            | 0.06    | -0.11   | 11.49   | -0.92      | -3.33      | 0.04       | 2.59        | 1.50     |
| 2373 | 0           | 10          | 0          | 0            | -0.05   | -0.07   | 11.49   | -0.53      | -2.98      | 0.05       | 2.75        | 1.34     |
| 2378 | 0           | 10          | 5          | 0            | 0.07    | -0.10   | 11.49   | -0.29      | -3.31      | 0.04       | 2.60        | 1.49     |
| 2382 | 0           | 10          | 10         | 0            | 0.07    | -0.06   | 11.49   | 0.05       | -3.37      | 0.02       | 2.57        | 1.52     |
| 2386 | 0           | 10          | 15         | 0            | 0.07    | -0.08   | 11.49   | 0.27       | -3.36      | 0.04       | 2.59        | 1.50     |
| 2422 | 0           | 20          | -15        | 0            | 0.07    | -0.05   | 11.49   | -1.60      | -3.20      | 0.00       | 2.66        | 1.24     |
| 2419 | 0           | 20          | -10        | 0            | 0.08    | -0.09   | 11.49   | -1.30      | -3.24      | 0.02       | 2.68        | 1.22     |
| 2415 | 0           | 20          | -5         | 0            | 0.06    | -0.10   | 11.49   | -1.02      | -3.29      | 0.02       | 2.69        | 1.21     |
| 2399 | 0           | 20          | 0          | 0            | 0.03    | -0.05   | 11.49   | -0.69      | -3.23      | 0.06       | 2.74        | 1.16     |
| 2403 | 0           | 20          | 0          | 0            | 0.07    | -0.09   | 11.49   | -0.73      | -3.31      | 0.04       | 2.71        | 1.19     |
| 2407 | 0           | 20          | 10         | 0            | 0.06    | -0.07   | 11.49   | -0.12      | -3.35      | 0.02       | 2.72        | 1.18     |
| 2411 | 0           | 20          | 15         | 0            | 0.05    | -0.09   | 11.49   | 0.17       | -3.40      | 0.04       | 2.69        | 1.21     |
| 2599 | 3           | -10         | -15        | 0            | -0.02   | -0.01   | 11.49   | -1.82      | -8.85      | 0.02       | 2.78        | 2.48     |
| 2595 | 3           | -10         | -10        | 0            | 0.00    | -0.02   | 11.49   | -1.04      | -8.90      | 0.01       | 2.77        | 2.49     |
| 2590 | 3           | -10         | -5         | 0            | 0.10    | -0.02   | 11.49   | -0.34      | -8.75      | -0.02      | 2.75        | 2.51     |
| 2585 | 3           | -10         | 0          | 0            | 0.01    | -0.01   | 11.49   | 0.53       | -8.90      | 0.04       | 2.76        | 2.50     |
| 2603 | 3           | -10         | 5          | 0            | 0.02    | 0.02    | 11.49   | 1.33       | -8.82      | 0.02       | 2.77        | 2.49     |
| 2607 | 3           | -10         | 10         | 0            | 0.02    | 0.01    | 11.49   | 2.09       | -8.74      | 0.02       | 2.77        | 2.49     |
| 2611 | 3           | -10         | 15         | 0            | 0.02    | 0.00    | 11.49   | 2.85       | -8.53      | 0.02       | 2.78        | 2.48     |
| 2501 | 3           | 0           | -15        | 0            | -0.01   | 0.01    | 11.49   | -2.30      | -9.00      | 0.01       | 2.79        | 2.53     |
| 2497 | 3           | 0           | -10        | 0            | 0.02    | -0.01   | 11.49   | -1.51      | -9.13      | 0.02       | 2.78        | 2.54     |
| 2493 | 3           | 0           | -5         | 0            | 0.01    | 0.03    | 11.49   | -0.72      | -9.26      | 0.02       | 2.78        | 2.54     |
| 2477 | 3           | 0           | 0          | 0            | 0.02    | -0.03   | 11.49   | 0.06       | -9.23      | 0.03       | 2.79        | 2.53     |
| 2481 | 3           | 0           | 5          | 0            | 0.06    | -0.03   | 11.49   | 0.91       | -9.21      | 0.04       | 2.77        | 2.55     |
| 2485 | 3           | 0           | 10         | 0            | 0.05    | -0.01   | 11.49   | 1.71       | -9.07      | 0.04       | 2.78        | 2.54     |
| 2489 | 3           | 0           | 15         | 0            | 0.05    | -0.01   | 11.49   | 2.48       | -8.89      | 0.04       | 2.78        | 2.54     |

\* Indicates model was close to heave stop

TABLE 5.120.2 - STABILITY DATA IN WIND AXES WITHOUT AIR TARES

10 deg Deadrise, L/R = 0.234, Cv = 0

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 2535 | 3           | 10          | -15        | 0            | 0.02    | 0.01    | 11.49   | -2.64      | -8.58      | -0.02      | 2.77        | 2.49     |
| 2519 | 3           | 10          | -10        | 0            | 0.02    | 0.02    | 11.49   | -1.89      | -8.83      | 0.01       | 2.80        | 2.46     |
| 2515 | 3           | 10          | -5         | 0            | 0.05    | 0.00    | 11.49   | -1.13      | -8.89      | 0.02       | 2.80        | 2.46     |
| 2507 | 3           | 10          | 0          | 0            | 0.04    | 0.03    | 11.49   | -0.34      | -8.97      | 0.02       | 2.78        | 2.48     |
| 2511 | 3           | 10          | 5          | 0            | 0.06    | 0.02    | 11.49   | 0.46       | -8.95      | 0.04       | 2.80        | 2.46     |
| 2540 | 3           | 10          | 10         | 0            | 0.02    | 0.06    | 11.49   | 1.28       | -9.09      | 0.01       | 2.74        | 2.52     |
| 2545 | 3           | 10          | 15         | 0            | 0.06    | 0.03    | 11.49   | 2.03       | -8.85      | 0.03       | 2.76        | 2.50     |
| 2578 | 3           | 20          | -15        | 0            | 0.00    | 0.00    | 11.49   | -2.78      | -8.16      | 0.02       | 2.78        | 2.29     |
| 2574 | 3           | 20          | -10        | 0            | 0.03    | 0.02    | 11.49   | -2.02      | -8.30      | 0.02       | 2.79        | 2.28     |
| 2570 | 3           | 20          | -5         | 0            | 0.04    | -0.01   | 11.49   | -1.31      | -8.48      | 0.03       | 2.80        | 2.27     |
| 2566 | 3           | 20          | 0          | 0            | 0.00    | 0.04    | 11.49   | -0.54      | -8.55      | 0.03       | 2.80        | 2.27     |
| 2561 | 3           | 20          | 5          | 0            | 0.05    | 0.03    | 11.49   | 0.19       | -8.52      | 0.03       | 2.80        | 2.27     |
| 2556 | 3           | 20          | 10         | 0            | 0.05    | 0.02    | 11.49   | 0.91       | -8.47      | 0.04       | 2.79        | 2.28     |
| 2552 | 3           | 20          | 15         | 0            | 0.03    | 0.07    | 11.49   | 1.69       | -8.39      | 0.01       | 2.78        | 2.29     |
| 3309 | 6           | -10         | -15        | 0            | -0.05   | 0.01    | 11.49   | -2.77      | -11.97     | 0.03       | 3.27        | 3.15     |
| 3305 | 6           | -10         | -10        | 0            | -0.05   | 0.02    | 11.49   | -1.73      | -12.13     | 0.05       | 3.28        | 3.14     |
| 3301 | 6           | -10         | -5         | 0            | -0.01   | -0.01   | 11.49   | -0.69      | -12.35     | 0.01       | 3.24        | 3.18     |
| 3284 | 6           | -10         | 0          | 0            | 0.01    | 0.06    | 11.49   | 0.39       | -11.94     | 0.03       | 3.26        | 3.16     |
| 3288 | 6           | -10         | 5          | 0            | -0.04   | 0.03    | 11.49   | 1.47       | -12.14     | 0.05       | 3.22        | 3.20     |
| 3293 | 6           | -10         | 10         | 0            | -0.01   | 0.04    | 11.49   | 2.55       | -11.99     | 0.03       | 3.23        | 3.19     |
| 3297 | 6           | -10         | 15         | 0            | 0.02    | 0.09    | 11.49   | 3.61       | -11.74     | 0.05       | 3.25        | 3.17     |
| 2658 | 6           | 0           | -15        | 0            | -0.02   | 0.00    | 11.49   | -3.10      | -11.97     | 0.10       | 3.18        | 3.30     |
| 2654 | 6           | 0           | -10        | 0            | -0.01   | 0.04    | 11.49   | -1.99      | -12.26     | 0.02       | 3.18        | 3.30     |
| 2650 | 6           | 0           | -5         | 0            | -0.00   | 0.02    | 11.49   | -0.96      | -12.27     | 0.08       | 3.17        | 3.31     |
| 2615 | 6           | 0           | 0          | 0            | 0.02    | 0.03    | 11.49   | 0.13       | -12.35     | 0.02       | 3.20        | 3.28     |
| 2620 | 6           | 0           | 5          | 0            | 0.00    | 0.03    | 11.49   | 1.23       | -12.38     | 0.05       | 3.19        | 3.29     |
| 2642 | 6           | 0           | 10         | 0            | 0.11    | 0.05    | 11.49   | 2.20       | -11.85     | 0.05       | 3.17        | 3.31     |
| 2646 | 6           | 0           | 15         | 0            | 0.03    | 0.07    | 11.49   | 3.32       | -11.86     | 0.05       | 3.16        | 3.32     |
| 2688 | 6           | 10          | -15        | 0            | -0.02   | 0.03    | 11.49   | -3.30      | -11.64     | 0.09       | 3.24        | 3.18     |
| 2683 | 6           | 10          | -10        | 0            | -0.00   | 0.02    | 11.49   | -2.28      | -11.95     | 0.06       | 3.23        | 3.19     |
| 2679 | 6           | 10          | -5         | 0            | -0.00   | 0.03    | 11.49   | -1.22      | -12.04     | 0.07       | 3.23        | 3.19     |
| 2663 | 6           | 10          | 0          | 0            | 0.01    | 0.16    | 11.49   | -0.09      | -12.18     | 0.10       | 3.18        | 3.24     |
| 2667 | 6           | 10          | 5          | 0            | 0.02    | 0.05    | 11.49   | 0.93       | -12.20     | 0.02       | 3.21        | 3.21     |
| 2671 | 6           | 10          | 10         | 0            | 0.00    | 0.02    | 11.49   | 1.92       | -12.01     | 0.12       | 3.22        | 3.20     |
| 2675 | 6           | 10          | 15         | 0            | 0.02    | 0.03    | 11.49   | 2.95       | -11.80     | 0.11       | 3.21        | 3.21     |
| 2701 | 6           | 20          | -15        | 0            | 0.00    | 0.02    | 11.49   | -3.34      | -11.06     | 0.01       | 3.09        | 3.14     |
| 2705 | 6           | 20          | -5         | 0            | 0.01    | 0.04    | 11.49   | -1.34      | -11.51     | 0.03       | 3.09        | 3.14     |
| 2695 | 6           | 20          | 0          | 0            | -0.02   | 0.02    | 11.49   | -0.38      | -11.47     | 0.03       | 3.26        | 2.97     |
| 2709 | 6           | 20          | 0          | 0            | 0.03    | 0.04    | 11.49   | -0.37      | -11.58     | 0.04       | 3.09        | 3.14     |
| 2713 | 6           | 20          | 5          | 0            | 0.05    | 0.06    | 11.49   | 0.67       | -11.59     | 0.03       | 3.10        | 3.13     |
| 2717 | 6           | 20          | 10         | 0            | 0.04    | 0.06    | 11.49   | 1.68       | -11.42     | 0.02       | 3.10        | 3.13     |
| 2735 | 6           | 20          | 10         | 0            | 0.01    | 0.02    | 11.49   | 1.59       | -11.43     | 0.07       | 3.20        | 3.03     |
| 2738 | 6           | 20          | 15         | 0            | 0.02    | 0.00    | 11.49   | 2.60       | -11.28     | 0.09       | 3.16        | 3.07     |

\* Indicates model was close to heave stop

TABLE 5.121.1 - STABILITY DATA IN WIND AXES WITHOUT AIR TARES

10 deg Deadrise, L/R = 0.234, Cv = 1.5

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|--------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 2472   | 0           | -10         | -15        | 7.34         | 2.59    | -2.45   | 11.49   | 1.33       | 2.56       | -3.07      | 2.07        | 2.02     |
| 2463   | 0           | -10         | -10        | 7.36         | 1.89    | -1.42   | 11.49   | 0.95       | 1.98       | -2.27      | 2.18        | 1.91     |
| 2459   | 0           | -10         | -5         | 7.36         | 1.55    | -0.67   | 11.49   | 0.73       | 1.71       | -1.55      | 2.25        | 1.84     |
| 2428   | 0           | -10         | 0          | 7.36         | 0.91    | -0.16   | 11.49   | 0.44       | 1.15       | -0.74      | 2.62        | 1.47     |
| 2432   | 0           | -10         | 5          | 7.36         | 1.41    | 0.44    | 11.49   | 0.16       | 1.79       | -0.37      | 2.35        | 1.74     |
| 2436   | 0           | -10         | 10         | 7.36         | 2.06    | 1.84    | 11.49   | -0.80      | 2.95       | 0.30       | 2.06        | 2.01     |
| 2455 * | 0           | -10         | 15         | 7.35         | 4.08    | 4.97    | 11.49   | -2.98      | 4.99       | 1.94       | 1.39        | 2.70     |
| 2349   | 0           | 0           | -15        | 7.37         | 3.26    | -3.68   | 11.49   | 1.37       | 0.55       | -5.18      | 1.86        | 2.29     |
| 2345   | 0           | 0           | -10        | 7.37         | 2.02    | -1.54   | 11.49   | 0.65       | 0.71       | -2.50      | 2.20        | 1.95     |
| 2341   | 0           | 0           | -5         | 7.37         | 1.61    | -0.71   | 11.49   | 0.34       | 0.98       | -1.33      | 2.31        | 1.84     |
| 2316   | 0           | 0           | 0          | 7.51         | 1.41    | -0.19   | 11.49   | 0.06       | 1.54       | -0.57      | 2.37        | 1.78     |
| 2318   | 0           | 0           | 0          | 7.35         | 1.38    | -0.16   | 11.49   | 0.11       | 1.49       | -0.60      | 2.37        | 1.78     |
| 2330   | 0           | 0           | 5          | 7.36         | 1.46    | 0.19    | 11.49   | -0.22      | 1.82       | -0.13      | 2.36        | 1.79     |
| 2335   | 0           | 0           | 10         | 7.36         | 1.81    | 0.76    | 11.49   | -0.70      | 2.47       | 0.49       | 2.24        | 1.91     |
| 2396   | 0           | 10          | -10        | 7.38         | 2.40    | -2.70   | 11.49   | 0.23       | -0.33      | -3.60      | 2.02        | 2.07     |
| 2391   | 0           | 10          | -5         | 7.37         | 1.63    | -0.97   | 11.49   | -0.29      | 0.19       | -1.75      | 2.27        | 1.82     |
| 2374   | 0           | 10          | 0          | 7.37         | 1.07    | -0.17   | 11.49   | -0.44      | 0.46       | -0.58      | 2.56        | 1.53     |
| 2379   | 0           | 10          | 5          | 7.36         | 1.45    | 0.26    | 11.49   | -0.65      | 1.52       | -0.13      | 2.37        | 1.72     |
| 2383   | 0           | 10          | 10         | 7.36         | 1.78    | 0.91    | 11.49   | -0.96      | 2.52       | 0.50       | 2.28        | 1.81     |
| 2387   | 0           | 10          | 15         | 7.36         | 2.34    | 1.79    | 11.49   | -1.53      | 3.41       | 1.21       | 2.17        | 1.92     |
| 2423 * | 0           | 20          | -15        | 7.36         | 5.00    | -8.50   | 11.49   | 1.18       | -1.88      | -9.76      | 1.51        | 2.39     |
| 2420   | 0           | 20          | -10        | 7.36         | 2.47    | -3.74   | 11.49   | 0.07       | -1.29      | -4.73      | 2.09        | 1.81     |
| 2416   | 0           | 20          | -5         | 7.36         | 1.59    | -1.22   | 11.49   | -0.49      | -0.83      | -2.34      | 2.37        | 1.53     |
| 2400   | 0           | 20          | 0          | 7.36         | 1.17    | -0.04   | 11.49   | -0.62      | -0.33      | -1.11      | 2.55        | 1.35     |
| 2404   | 0           | 20          | 5          | 7.36         | 1.38    | 0.58    | 11.49   | -0.83      | 0.28       | -0.55      | 2.49        | 1.41     |
| 2408   | 0           | 20          | 10         | 7.37         | 1.68    | 1.60    | 11.49   | -1.01      | 0.95       | 0.04       | 2.48        | 1.42     |
| 2412   | 0           | 20          | 15         | 7.36         | 2.30    | 2.65    | 11.49   | -1.38      | 2.07       | 0.74       | 2.44        | 1.46     |
| 2600   | 3           | -10         | -15        | 7.36         | 2.00    | -2.12   | 11.49   | -0.19      | -1.90      | 0.22       | 2.65        | 2.61     |
| 2596   | 3           | -10         | -10        | 7.36         | 1.51    | -1.06   | 11.49   | -0.16      | -3.55      | -0.46      | 2.71        | 2.55     |
| 2591   | 3           | -10         | -5         | 7.36         | 1.38    | -0.34   | 11.49   | 0.03       | -3.89      | -0.78      | 2.71        | 2.55     |
| 2586   | 3           | -10         | 0          | 7.35         | 1.20    | 0.26    | 11.49   | 0.41       | -4.30      | -0.88      | 2.66        | 2.60     |
| 2604   | 3           | -10         | 5          | 7.35         | 1.46    | 1.23    | 11.49   | 0.74       | -3.85      | -1.28      | 2.58        | 2.68     |
| 2608   | 3           | -10         | 10         | 7.35         | 2.01    | 2.54    | 11.49   | 0.46       | -2.90      | -1.88      | 2.39        | 2.87     |
| 2612   | 3           | -10         | 15         | 7.35         | 3.57    | 5.54    | 11.49   | -0.85      | -0.94      | -3.00      | 2.01        | 3.25     |
| 2502   | 3           | 0           | -15        | 7.35         | 1.87    | -1.55   | 11.49   | -1.01      | -3.79      | 0.02       | 2.60        | 2.72     |
| 2498   | 3           | 0           | -10        | 7.35         | 1.50    | -0.82   | 11.49   | -0.82      | -4.53      | -0.11      | 2.71        | 2.61     |
| 2494   | 3           | 0           | -5         | 7.35         | 1.28    | -0.17   | 11.49   | -0.43      | -4.87      | -0.30      | 2.77        | 2.55     |
| 2478   | 3           | 0           | 0          | 7.34         | 1.19    | 0.28    | 11.49   | -0.03      | -4.75      | -0.54      | 2.78        | 2.54     |
| 2482   | 3           | 0           | 5          | 7.34         | 1.43    | 0.92    | 11.49   | 0.42       | -4.22      | -0.93      | 2.69        | 2.63     |
| 2486   | 3           | 0           | 10         | 7.35         | 1.80    | 1.87    | 11.49   | 0.51       | -3.22      | -1.49      | 2.56        | 2.76     |
| 2490   | 3           | 0           | 15         | 7.35         | 2.65    | 3.41    | 11.49   | -0.01      | -1.41      | -2.29      | 2.32        | 3.00     |

\* Indicates model was close to heave stop

TABLE 5.121.2 - STABILITY DATA IN WIND AXES WITHOUT AIR TARES

10 deg Deadrise, L/R = 0.234, Cv = 1.5

| FLUN | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 2536 | 3           | 10          | -15        | 7.34         | 2.25    | -2.67   | 11.49   | -1.05      | -5.21      | -0.54      | 2.39        | 2.87     |
| 2520 | 3           | 10          | -10        | 7.35         | 1.61    | -1.05   | 11.49   | -1.12      | -5.44      | -0.44      | 2.63        | 2.63     |
| 2516 | 3           | 10          | -5         | 7.35         | 1.38    | -0.13   | 11.49   | -0.86      | -5.40      | -0.34      | 2.74        | 2.52     |
| 2508 | 3           | 10          | 0          | 7.35         | 1.30    | 0.51    | 11.49   | -0.39      | -5.15      | -0.47      | 2.76        | 2.50     |
| 2512 | 3           | 10          | 5          | 7.35         | 1.42    | 1.15    | 11.49   | 0.05       | -4.65      | -0.73      | 2.80        | 2.46     |
| 2541 | 3           | 10          | 10         | 7.35         | 1.72    | 1.98    | 11.49   | 0.40       | -4.06      | -1.23      | 2.70        | 2.56     |
| 2546 | 3           | 10          | 15         | 7.35         | 2.35    | 2.94    | 11.49   | 0.41       | -2.47      | -1.95      | 2.63        | 2.63     |
| 2579 | 3           | 20          | -15        | 7.36         | 3.01    | -4.84   | 11.49   | -0.69      | -5.52      | -1.50      | 2.23        | 2.84     |
| 2575 | 3           | 20          | -10        | 7.35         | 1.76    | -1.65   | 11.49   | -1.11      | -5.65      | -0.91      | 2.55        | 2.52     |
| 2571 | 3           | 20          | -5         | 7.35         | 1.44    | -0.24   | 11.49   | -1.04      | -5.55      | -0.67      | 2.71        | 2.36     |
| 2567 | 3           | 20          | 0          | 7.35         | 1.41    | 0.64    | 11.49   | -0.66      | -5.24      | -0.72      | 2.76        | 2.31     |
| 2562 | 3           | 20          | 5          | 7.35         | 1.58    | 1.72    | 11.49   | -0.37      | -4.89      | -1.03      | 2.79        | 2.28     |
| 2557 | 3           | 20          | 10         | 7.35         | 1.94    | 2.65    | 11.49   | -0.03      | -4.47      | -1.41      | 2.82        | 2.25     |
| 2558 | 3           | 20          | 10         | 7.35         | 1.95    | 2.67    | 11.49   | 0.03       | -4.49      | -1.44      | 2.81        | 2.26     |
| 2553 | 3           | 20          | 15         | 7.35         | 2.37    | 3.38    | 11.49   | 0.50       | -3.96      | -1.92      | 2.90        | 2.17     |
| 3310 | 6           | -10         | -15        | 7.34         | 2.15    | -2.36   | 11.49   | -1.36      | -6.73      | 2.14       | 3.45        | 2.97     |
| 3306 | 6           | -10         | -10        | 7.33         | 1.74    | -1.48   | 11.49   | -0.90      | -7.70      | 1.05       | 3.46        | 2.96     |
| 3302 | 6           | -10         | -5         | 7.33         | 1.60    | -0.45   | 11.49   | -0.34      | -8.43      | -0.23      | 3.39        | 3.03     |
| 3285 | 6           | -10         | 0          | 7.34         | 1.67    | 0.54    | 11.49   | 0.28       | -8.44      | -1.16      | 3.29        | 3.13     |
| 3289 | 6           | -10         | 5          | 7.34         | 1.81    | 1.64    | 11.49   | 0.95       | -8.09      | -2.17      | 3.22        | 3.20     |
| 3294 | 6           | -10         | 10         | 7.33         | 2.44    | 3.39    | 11.49   | 1.16       | -7.38      | -3.79      | 3.05        | 3.37     |
| 3298 | 6           | -10         | 15         | 7.33         | 3.69    | 6.13    | 11.49   | 0.90       | -6.32      | -6.00      | 2.76        | 3.66     |
| 2659 | 6           | 0           | -15        | 7.36         | 2.09    | -1.79   | 11.49   | -1.85      | -7.62      | 2.08       | 3.26        | 3.22     |
| 2655 | 6           | 0           | -10        | 7.35         | 1.71    | -0.91   | 11.49   | -1.31      | -8.28      | 1.04       | 3.33        | 3.15     |
| 2651 | 6           | 0           | -5         | 7.36         | 1.48    | -0.02   | 11.49   | -0.63      | -8.57      | 0.05       | 3.38        | 3.10     |
| 2616 | 6           | 0           | 0          | 7.35         | 1.50    | 0.71    | 11.49   | 0.01       | -8.74      | -0.95      | 3.36        | 3.12     |
| 2621 | 6           | 0           | 5          | 7.35         | 1.66    | 1.54    | 11.49   | 0.73       | -8.17      | -1.93      | 3.32        | 3.16     |
| 2643 | 6           | 0           | 10         | 7.35         | 2.05    | 2.55    | 11.49   | 1.20       | -7.43      | -3.05      | 3.19        | 3.29     |
| 2647 | 6           | 0           | 15         | 7.35         | 2.96    | 4.19    | 11.49   | 1.40       | -6.48      | -4.86      | 3.05        | 3.43     |
| 2689 | 6           | 10          | -15        | 7.35         | 2.27    | -2.07   | 11.49   | -2.11      | -8.53      | 2.01       | 3.19        | 3.23     |
| 2684 | 6           | 10          | -10        | 7.35         | 1.81    | -0.69   | 11.49   | -1.70      | -8.89      | 0.86       | 3.33        | 3.09     |
| 2680 | 6           | 10          | -5         | 7.35         | 1.65    | 0.26    | 11.49   | -0.97      | -8.89      | 0.03       | 3.40        | 3.02     |
| 2664 | 6           | 10          | 0          | 7.35         | 1.66    | 1.25    | 11.49   | -0.20      | -8.84      | -0.83      | 3.40        | 3.02     |
| 2668 | 6           | 10          | 5          | 7.35         | 1.84    | 2.06    | 11.49   | 0.40       | -8.48      | -1.95      | 3.43        | 2.99     |
| 2672 | 6           | 10          | 10         | 7.36         | 2.13    | 2.78    | 11.49   | 1.02       | -7.62      | -2.82      | 3.43        | 2.99     |
| 2676 | 6           | 10          | 15         | 7.36         | 2.55    | 3.31    | 11.49   | 1.59       | -7.08      | -3.62      | 3.46        | 2.96     |
| 2702 | 6           | 20          | -15        | 7.36         | 2.55    | -2.95   | 11.49   | -1.92      | -8.64      | 1.75       | 2.93        | 3.30     |
| 2696 | 6           | 20          | -10        | 7.35         | 1.81    | -1.06   | 11.49   | -1.75      | -8.89      | 0.70       | 3.26        | 2.97     |
| 2697 | 6           | 20          | -10        | 7.35         | 1.88    | -1.09   | 11.49   | -1.74      | -8.90      | 0.69       | 3.23        | 3.00     |
| 2706 | 6           | 20          | -5         | 7.35         | 1.65    | 0.23    | 11.49   | -1.22      | -9.03      | -0.14      | 3.19        | 3.04     |
| 2710 | 6           | 20          | 0          | 7.35         | 1.67    | 1.58    | 11.49   | -0.61      | -8.91      | -1.18      | 3.27        | 2.96     |
| 2714 | 6           | 20          | 5          | 7.35         | 1.94    | 2.90    | 11.49   | -0.01      | -8.62      | -2.35      | 3.36        | 2.87     |
| 2718 | 6           | 20          | 10         | 7.35         | 2.29    | 3.57    | 11.49   | 0.76       | -7.95      | -3.19      | 3.42        | 2.81     |
| 2739 | 6           | 20          | 15         | 7.35         | 2.60    | 3.59    | 11.49   | 1.52       | -7.73      | -3.38      | 3.67        | 2.56     |

\* Indicates model was close to heave stop

TABLE 5.123.1 - STABILITY DATA IN WIND AXES WITHOUT AIR TARES

10 deg Deadrise, L/R = 0.234, Cv = 3

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|--------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 2473   | 0           | -10         | -15        | 14.71        | 6.45    | -5.15   | 11.49   | 3.50       | 15.91      | -5.58      | 2.70        | 1.39     |
| 2464   | 0           | -10         | -10        | 14.75        | 6.20    | -4.24   | 11.49   | 2.40       | 14.35      | -5.22      | 2.37        | 1.72     |
| 2470   | 0           | -10         | -10        | 14.72        | 6.11    | -4.23   | 11.49   | 2.29       | 14.18      | -5.16      | 2.41        | 1.68     |
| 2460   | 0           | -10         | -5         | 14.74        | 4.97    | -2.48   | 11.49   | 1.01       | 9.54       | -4.28      | 2.32        | 1.77     |
| 2429   | 0           | -10         | 0          | 14.74        | 3.80    | -0.21   | 11.49   | 0.33       | 6.42       | -3.53      | 2.59        | 1.50     |
| 2433   | 0           | -10         | 5          | 14.74        | 6.19    | 4.35    | 11.49   | -1.30      | 9.57       | -5.43      | 2.06        | 2.03     |
| 2437 * | 0           | -10         | 10         | 14.75        | 11.05   | 16.96   | 11.49   | -4.97      | 12.84      | -4.48      | 1.38        | 2.71     |
| 2457 * | 0           | -10         | 15         | 14.73        | 16.11   | 27.64   | 11.49   | -10.56     | 17.27      | -3.43      | 1.26        | 2.83     |
| 2350 * | 0           | 0           | -15        | 14.76        | 14.90   | -21.00  | 11.49   | 4.58       | 4.30       | -20.29     | 1.52        | 2.63     |
| 2346   | 0           | 0           | -10        | 14.75        | 8.04    | -7.67   | 11.49   | 2.19       | 6.18       | -7.38      | 2.05        | 2.10     |
| 2342   | 0           | 0           | -5         | 14.75        | 5.16    | -2.48   | 11.49   | 0.57       | 5.02       | -2.36      | 2.44        | 1.71     |
| 2319   | 0           | 0           | 0          | 15.01        | 4.16    | -0.03   | 11.49   | 0.12       | 5.19       | -1.76      | 2.53        | 1.62     |
| 2320   | 0           | 0           | 0          | 14.72        | 3.98    | -0.10   | 11.49   | 0.07       | 4.94       | -1.68      | 2.54        | 1.61     |
| 2331   | 0           | 0           | 5          | 14.74        | 5.15    | 2.57    | 11.49   | -0.99      | 8.30       | -2.74      | 2.28        | 1.87     |
| 2332   | 0           | 0           | 5          | 14.76        | 5.17    | 2.57    | 11.49   | -0.97      | 8.26       | -2.76      | 2.28        | 1.87     |
| 2337 * | 0           | 0           | 10         | 14.75        | 10.31   | 14.38   | 11.49   | -4.00      | 11.83      | -6.43      | 1.42        | 2.73     |
| 2338 * | 0           | 0           | 10         | 14.76        | 10.42   | 14.36   | 11.49   | -3.99      | 12.04      | -6.52      | 1.42        | 2.73     |
| 2397 * | 0           | 10          | -10        | 14.79        | 11.16   | -16.73  | 11.49   | 2.15       | -3.71      | -19.97     | 1.51        | 2.58     |
| 2392   | 0           | 10          | -5         | 14.75        | 5.47    | -3.46   | 11.49   | 0.32       | -0.52      | -4.13      | 2.31        | 1.78     |
| 2375   | 0           | 10          | 0          | 14.76        | 4.07    | -0.06   | 11.49   | -0.14      | 1.83       | -0.81      | 2.56        | 1.53     |
| 2380   | 0           | 10          | 5          | 14.74        | 4.44    | 1.83    | 11.49   | -0.70      | 5.97       | -0.15      | 2.51        | 1.58     |
| 2384   | 0           | 10          | 10         | 14.76        | 5.54    | 4.57    | 11.49   | -1.68      | 9.68       | -1.06      | 2.51        | 1.58     |
| 2388   | 0           | 10          | 15         | 14.75        | 5.20    | 4.25    | 11.49   | -1.31      | 8.93       | -0.09      | 2.94        | 1.15     |
| 2421 * | 0           | 20          | -10        | 14.75        | 12.00   | -20.67  | 11.49   | 2.63       | -4.97      | -26.73     | 1.53        | 2.37     |
| 2417   | 0           | 20          | -5         | 14.73        | 5.54    | -5.14   | 11.49   | 0.29       | -3.72      | -8.09      | 2.35        | 1.55     |
| 2401   | 0           | 20          | 0          | 14.73        | 4.20    | -0.29   | 11.49   | -0.40      | -0.78      | -2.14      | 2.60        | 1.30     |
| 2405   | 0           | 20          | 5          | 14.74        | 4.14    | 2.86    | 11.49   | -0.74      | 1.10       | -0.23      | 2.81        | 1.09     |
| 2409   | 0           | 20          | 10         | 14.73        | 3.90    | 3.76    | 11.49   | -0.51      | 1.94       | -0.97      | 3.19        | 0.71     |
| 2413   | 0           | 20          | 15         | 14.74        | 3.61    | 3.61    | 11.49   | -0.48      | -0.51      | -1.79      | 3.72        | 0.18     |
| 2601   | 3           | -10         | -15        | 14.72        | 2.27    | -2.18   | 11.49   | -1.21      | -4.62      | 1.36       | 3.81        | 1.45     |
| 2597   | 3           | -10         | -10        | 14.72        | 2.34    | -1.91   | 11.49   | 0.08       | -1.16      | 0.31       | 3.51        | 1.75     |
| 2592   | 3           | -10         | -5         | 14.74        | 2.35    | -1.52   | 11.49   | 0.62       | 0.45       | -0.21      | 3.24        | 2.02     |
| 2587   | 3           | -10         | 0          | 14.74        | 2.55    | 0.91    | 11.49   | 0.60       | -0.69      | -2.58      | 3.13        | 2.13     |
| 2605   | 3           | -10         | 5          | 14.72        | 3.66    | 5.01    | 11.49   | 0.04       | 0.68       | -5.97      | 2.86        | 2.40     |
| 2609   | 3           | -10         | 10         | 14.72        | 6.84    | 12.78   | 11.49   | -2.12      | 4.83       | -11.37     | 2.39        | 2.87     |
| 2613 * | 3           | -10         | 15         | 14.75        | 16.18   | 31.36   | 11.49   | -9.09      | 15.80      | -15.16     | 1.28        | 3.98     |
| 2503   | 3           | 0           | -15        | 14.72        | 4.05    | -3.53   | 11.49   | -0.63      | -0.44      | 1.63       | 3.12        | 2.20     |
| 2499   | 3           | 0           | -10        | 14.72        | 3.01    | -1.51   | 11.49   | -0.65      | -1.47      | 0.51       | 3.18        | 2.14     |
| 2495   | 3           | 0           | -5         | 14.72        | 2.44    | -0.34   | 11.49   | -0.30      | -1.95      | -0.15      | 3.21        | 2.11     |
| 2479   | 3           | 0           | 0          | 14.71        | 2.29    | 0.81    | 11.49   | 0.16       | -2.07      | -1.27      | 3.23        | 2.09     |
| 2483   | 3           | 0           | 5          | 14.71        | 2.86    | 2.64    | 11.49   | 0.43       | -1.60      | -3.12      | 3.23        | 2.09     |
| 2487   | 3           | 0           | 10         | 14.74        | 4.12    | 5.87    | 11.49   | 0.13       | 0.19       | -6.24      | 3.12        | 2.20     |
| 2491   | 3           | 0           | 15         | 14.72        | 6.99    | 11.56   | 11.49   | -1.58      | 4.02       | -11.24     | 2.86        | 2.46     |

\* Indicates model was close to heave stop

TABLE 5.123.2 - STABILITY DATA IN WIND AXES WITHOUT AIR TARES

10 deg Deadrise, L/R = 0.234, Cv = 3

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 2537 | 3           | 10          | -15        | 14.71        | 8.36    | -13.53  | 11.49   | 1.25       | -2.68      | -2.76      | 2.21        | 3.05     |
| 2521 | 3           | 10          | -10        | 14.72        | 4.11    | -3.19   | 11.49   | -0.72      | -3.97      | -0.05      | 2.84        | 2.42     |
| 2517 | 3           | 10          | -5         | 14.74        | 2.98    | 0.01    | 11.49   | -0.77      | -4.37      | 0.06       | 3.15        | 2.11     |
| 2509 | 3           | 10          | 0          | 14.72        | 2.47    | 1.85    | 11.49   | -0.29      | -4.13      | -1.22      | 3.36        | 1.90     |
| 2513 | 3           | 10          | 5          | 14.72        | 2.32    | 2.30    | 11.49   | 0.69       | -5.68      | -1.80      | 3.64        | 1.62     |
| 2542 | 3           | 10          | 10         | 14.72        | 2.24    | 2.75    | 11.49   | 2.12       | -9.26      | -2.84      | 3.90        | 1.36     |
| 2547 | 3           | 10          | 15         | 14.72        | 2.26    | 2.75    | 11.49   | 3.61       | -12.08     | -3.74      | 4.17        | 1.09     |
| 2580 | 3           | 20          | -15        | 14.73        | 11.73   | -24.57  | 11.49   | 2.87       | -6.63      | -12.96     | 1.83        | 3.24     |
| 2576 | 3           | 20          | -10        | 14.72        | 4.64    | -5.50   | 11.49   | -0.17      | -5.46      | -2.36      | 2.73        | 2.34     |
| 2572 | 3           | 20          | -5         | 14.73        | 3.16    | -0.35   | 11.49   | -0.96      | -5.39      | -0.73      | 3.15        | 1.92     |
| 2568 | 3           | 20          | 0          | 14.75        | 2.68    | 2.55    | 11.49   | -0.70      | -6.21      | -1.68      | 3.47        | 1.60     |
| 2563 | 3           | 20          | 5          | 14.73        | 2.20    | 3.87    | 11.49   | 0.06       | -7.84      | -3.21      | 3.87        | 1.20     |
| 2564 | 3           | 20          | 5          | 14.74        | 2.18    | 3.92    | 11.49   | 0.06       | -7.84      | -3.23      | 3.87        | 1.20     |
| 2559 | 3           | 20          | 10         | 14.72        | 2.18    | 3.73    | 11.49   | 1.11       | -10.84     | -4.08      | 4.28        | 0.79     |
| 2554 | 3           | 20          | 15         | 14.72        | 2.15    | 3.13    | 11.49   | 2.38       | -13.01     | -4.09      | 4.61        | 0.46     |
| 3311 | 6           | -10         | -15        | 14.70        | 2.13    | -1.96   | 11.49   | -3.40      | -13.54     | 2.85       | 5.14        | 1.28     |
| 3307 | 6           | -10         | -10        | 14.70        | 2.06    | -1.79   | 11.49   | -1.71      | -11.68     | 2.18       | 4.89        | 1.53     |
| 3303 | 6           | -10         | -5         | 14.70        | 2.01    | -1.36   | 11.49   | -0.17      | -9.45      | 1.42       | 4.60        | 1.82     |
| 3286 | 6           | -10         | 0          | 14.71        | 2.33    | 0.33    | 11.49   | 0.58       | -8.57      | -1.35      | 4.27        | 2.15     |
| 3291 | 6           | -10         | 5          | 14.69        | 3.11    | 3.56    | 11.49   | 0.94       | -7.62      | -5.25      | 4.07        | 2.35     |
| 3295 | 6           | -10         | 10         | 14.69        | 4.98    | 9.71    | 11.49   | 0.26       | -5.45      | -11.95     | 3.69        | 2.73     |
| 3299 | 6           | -10         | 15         | 14.69        | 9.94    | 21.86   | 11.49   | -2.64      | -0.84      | -21.78     | 2.98        | 3.44     |
| 2660 | 6           | 0           | -15        | 14.75        | 2.01    | -0.53   | 11.49   | -3.23      | -10.63     | 1.12       | 4.68        | 1.80     |
| 2656 | 6           | 0           | -10        | 14.73        | 1.58    | -0.12   | 11.49   | -2.06      | -11.16     | 0.35       | 4.77        | 1.71     |
| 2652 | 6           | 0           | -5         | 14.73        | 1.59    | 0.19    | 11.49   | -0.80      | -11.66     | -0.07      | 4.78        | 1.70     |
| 2617 | 6           | 0           | 0          | 14.72        | 1.83    | 0.43    | 11.49   | 0.49       | -11.61     | -0.49      | 4.68        | 1.80     |
| 2618 | 6           | 0           | 0          | 14.74        | 1.69    | 0.46    | 11.49   | 0.49       | -11.74     | -0.47      | 4.76        | 1.72     |
| 2622 | 6           | 0           | 5          | 14.73        | 1.84    | 0.95    | 11.49   | 1.72       | -11.86     | -1.39      | 4.77        | 1.71     |
| 2644 | 6           | 0           | 10         | 14.72        | 2.26    | 1.92    | 11.49   | 2.84       | -11.65     | -2.94      | 4.71        | 1.77     |
| 2648 | 6           | 0           | 15         | 14.73        | 3.10    | 3.36    | 11.49   | 3.62       | -10.78     | -5.28      | 4.63        | 1.85     |
| 2690 | 6           | 10          | -15        | 14.73        | 3.33    | -2.36   | 11.49   | -2.12      | -7.84      | 3.19       | 4.10        | 2.32     |
| 2685 | 6           | 10          | -10        | 14.74        | 2.26    | 0.76    | 11.49   | -2.13      | -9.17      | -0.26      | 4.36        | 2.06     |
| 2681 | 6           | 10          | -5         | 14.71        | 2.00    | 2.34    | 11.49   | -1.46      | -10.70     | -2.32      | 4.55        | 1.87     |
| 2665 | 6           | 10          | 0          | 14.72        | 1.78    | 1.97    | 11.49   | -0.18      | -13.06     | -2.34      | 4.90        | 1.52     |
| 2669 | 6           | 10          | 5          | 14.74        | 1.97    | 2.24    | 11.49   | 1.33       | -15.29     | -3.11      | 5.15        | 1.27     |
| 2673 | 6           | 10          | 10         | 14.76        | 2.07    | 2.15    | 11.49   | 2.73       | -15.96     | -3.32      | 5.34        | 1.08     |
| 2677 | 6           | 10          | 15         | 14.72        | 2.23    | 2.21    | 11.49   | 4.36       | -16.71     | -3.70      | 5.39        | 1.03     |
| 2703 | 6           | 20          | -15        | 14.74        | 6.06    | -9.55   | 11.49   | -0.42      | -8.13      | 5.39       | 3.18        | 3.05     |
| 2698 | 6           | 20          | -10        | 14.72        | 3.23    | -1.24   | 11.49   | -1.77      | -8.57      | 0.92       | 3.91        | 2.32     |
| 2707 | 6           | 20          | -5         | 14.74        | 2.40    | 2.75    | 11.49   | -1.66      | -9.63      | -2.43      | 4.12        | 2.11     |
| 2711 | 6           | 20          | 0          | 14.74        | 2.18    | 4.98    | 11.49   | -1.14      | -11.84     | -5.45      | 4.56        | 1.67     |
| 2715 | 6           | 20          | 5          | 14.72        | 2.18    | 3.80    | 11.49   | 0.33       | -14.78     | -4.78      | 5.07        | 1.16     |
| 2719 | 6           | 20          | 10         | 14.74        | 2.17    | 3.19    | 11.49   | 1.66       | -15.75     | -4.51      | 5.40        | 0.83     |
| 2740 | 6           | 20          | 15         | 14.74        | 2.32    | 2.83    | 11.49   | 3.15       | -16.56     | -4.38      | 5.66        | 0.57     |

\* Indicates model was close to heave stop



TABLE 5.124.1 - STABILITY DATA IN WIND AXES WITHOUT AIR TARES

10 deg Deadrise, L/R = 0.234, Cv = 4

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|--------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 2474   | 0           | -10         | -15        | 19.67        | 6.82    | -5.70   | 11.49   | 3.94       | 20.88      | -6.56      | 3.09        | 1.00     |
| 2468   | 0           | -10         | -10        | 19.68        | 9.20    | -5.36   | 11.49   | 3.97       | 27.20      | -10.07     | 2.49        | 1.60     |
| 2469   | 0           | -10         | -10        | 19.66        | 9.33    | -5.44   | 11.49   | 3.97       | 27.37      | -10.11     | 2.47        | 1.62     |
| 2461   | 0           | -10         | -5         | 19.68        | 7.65    | -3.53   | 11.49   | 1.69       | 22.33      | -7.32      | 2.33        | 1.76     |
| 2430   | 0           | -10         | 0          | 19.68        | 5.92    | -1.01   | 11.49   | 0.25       | 13.73      | -5.29      | 2.55        | 1.54     |
| 2434   | 0           | -10         | 5          | 19.69        | 11.63   | 10.31   | 11.49   | -2.35      | 16.97      | -11.54     | 1.72        | 2.37     |
| 2352   | 0           | 0           | -15        | 19.19        | 23.61   | -32.22  | 11.49   | 8.51       | 10.01      | -35.32     | 1.55        | 2.60     |
| 2347   | 0           | 0           | -10        | 19.61        | 12.23   | -10.92  | 11.49   | 4.08       | 14.21      | -12.47     | 2.14        | 2.01     |
| 2343   | 0           | 0           | -5         | 19.59        | 8.28    | -3.39   | 11.49   | 1.15       | 13.07      | -4.34      | 2.41        | 1.74     |
| 2322   | 0           | 0           | 0          | 19.44        | 5.88    | -0.32   | 11.49   | 0.28       | 11.19      | -2.43      | 2.52        | 1.63     |
| 2323   | 0           | 0           | 0          | 19.76        | 5.89    | -0.21   | 11.49   | 0.38       | 11.60      | -2.44      | 2.52        | 1.63     |
| 2324   | 0           | 0           | 0          | 19.63        | 5.67    | -0.19   | 11.49   | 0.26       | 11.30      | -2.36      | 2.57        | 1.58     |
| 2326   | 0           | 0           | 0          | 19.61        | 5.86    | -0.21   | 11.49   | 0.25       | 11.35      | -2.46      | 2.53        | 1.62     |
| 2327   | 0           | 0           | 0          | 19.51        | 6.05    | -0.31   | 11.49   | 0.27       | 11.32      | -2.44      | 2.52        | 1.63     |
| 2328   | 0           | 0           | 0          | 19.58        | 5.79    | -0.42   | 11.49   | 0.22       | 11.34      | -2.37      | 2.59        | 1.56     |
| 2333   | 0           | 0           | 5          | 19.57        | 8.21    | 4.71    | 11.49   | -1.63      | 15.76      | -6.08      | 2.28        | 1.87     |
| 2339 * | 0           | 0           | 10         | 19.60        | 15.96   | 22.61   | 11.49   | -5.90      | 20.46      | -11.45     | 1.44        | 2.71     |
| 2394   | 0           | 10          | -5         | 19.57        | 9.16    | -5.88   | 11.49   | 1.07       | 2.33       | -8.79      | 2.20        | 1.89     |
| 2376   | 0           | 10          | 0          | 19.15        | 6.43    | 0.36    | 11.49   | 0.08       | 4.42       | -1.24      | 2.53        | 1.56     |
| 2377   | 0           | 10          | 0          | 19.59        | 6.57    | 0.36    | 11.49   | 0.01       | 4.83       | -1.21      | 2.52        | 1.57     |
| 2381   | 0           | 10          | 5          | 19.57        | 6.91    | 3.05    | 11.49   | -0.81      | 11.88      | -0.61      | 2.53        | 1.56     |
| 2385   | 0           | 10          | 10         | 19.59        | 6.15    | 4.38    | 11.49   | -1.08      | 12.72      | -0.27      | 2.95        | 1.14     |
| 2389   | 0           | 10          | 15         | 19.58        | 4.81    | 4.40    | 11.49   | 0.15       | 5.62       | -0.78      | 3.41        | 0.68     |
| 2418   | 0           | 20          | -5         | 19.69        | 9.63    | -9.64   | 11.49   | 1.33       | -4.65      | -17.64     | 2.24        | 1.66     |
| 2402   | 0           | 20          | 0          | 19.57        | 6.81    | 0.22    | 11.49   | -0.14      | 0.42       | -4.37      | 2.57        | 1.33     |
| 2406   | 0           | 20          | 5          | 19.57        | 6.05    | 5.35    | 11.49   | -0.66      | 1.60       | -0.50      | 2.91        | 0.99     |
| 2410   | 0           | 20          | 10         | 19.68        | 4.50    | 4.56    | 11.49   | -0.73      | -0.06      | -1.59      | 3.62        | 0.28     |
| 2414   | 0           | 20          | 15         | 19.70        | 2.84    | 2.95    | 11.49   | -0.17      | -5.05      | -1.95      | 4.17        | -0.27    |
| 2602   | 3           | -10         | -15        | 19.63        | 2.15    | -2.69   | 11.49   | -2.65      | -10.68     | 2.99       | 4.11        | 1.15     |
| 2598   | 3           | -10         | -10        | 19.64        | 2.34    | -2.27   | 11.49   | -0.47      | -4.78      | 1.34       | 3.82        | 1.44     |
| 2593   | 3           | -10         | -5         | 19.64        | 2.73    | -1.85   | 11.49   | 0.88       | 1.93       | -0.25      | 3.44        | 1.82     |
| 2588   | 3           | -10         | 0          | 19.67        | 3.13    | 1.25    | 11.49   | 0.85       | 2.12       | -3.65      | 3.26        | 2.00     |
| 2606   | 3           | -10         | 5          | 19.66        | 5.24    | 8.65    | 11.49   | -0.39      | 4.95       | -10.25     | 2.96        | 2.30     |
| 2610   | 3           | -10         | 10         | 19.64        | 10.41   | 21.57   | 11.49   | -4.36      | 12.20      | -19.34     | 2.43        | 2.83     |
| 2504   | 3           | 0           | -15        | 19.61        | 5.25    | -4.06   | 11.49   | -0.87      | 0.46       | 1.88       | 3.30        | 2.02     |
| 2500   | 3           | 0           | -10        | 19.60        | 3.78    | -0.93   | 11.49   | -0.85      | -0.51      | -0.38      | 3.37        | 1.95     |
| 2496   | 3           | 0           | -5         | 19.58        | 3.01    | 0.16    | 11.49   | -0.26      | -0.22      | -0.74      | 3.35        | 1.97     |
| 2480   | 3           | 0           | 0          | 19.65        | 2.75    | 1.12    | 11.49   | 0.40       | -1.49      | -1.43      | 3.38        | 1.94     |
| 2484   | 3           | 0           | 5          | 19.64        | 3.42    | 3.65    | 11.49   | 0.86       | -2.14      | -4.19      | 3.47        | 1.85     |
| 2488   | 3           | 0           | 10         | 19.65        | 4.99    | 7.43    | 11.49   | 0.75       | -0.40      | -8.27      | 3.40        | 1.92     |
| 2492   | 3           | 0           | 15         | 19.63        | 8.17    | 13.98   | 11.49   | -0.94      | 3.76       | -15.19     | 3.25        | 2.07     |

\* Indicates model was close to heave stop

TABLE 5.124.2 - STABILITY DATA IN WIND AXES WITHOUT AIR TARES

10 deg Deadrise, L/R = 0.234, Cv = 4

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 2538 | 3           | 10          | -15        | 19.64        | 13.65   | -24.12  | 11.49   | 3.56       | 1.12       | -5.79      | 2.19        | 3.07     |
| 2522 | 3           | 10          | -10        | 19.62        | 6.31    | -4.64   | 11.49   | -0.12      | -1.07      | -2.39      | 2.81        | 2.45     |
| 2518 | 3           | 10          | -5         | 19.64        | 4.27    | 1.77    | 11.49   | -0.82      | -2.47      | -1.82      | 3.25        | 2.01     |
| 2510 | 3           | 10          | 0          | 19.65        | 2.64    | 2.73    | 11.49   | -0.09      | -6.29      | -1.77      | 3.66        | 1.60     |
| 2514 | 3           | 10          | 5          | 19.60        | 2.07    | 3.23    | 11.49   | 1.42       | -12.45     | -3.37      | 4.07        | 1.19     |
| 2543 | 3           | 10          | 10         | 19.67        | 2.01    | 3.29    | 11.49   | 2.89       | -15.49     | -4.12      | 4.23        | 1.03     |
| 2544 | 3           | 10          | 10         | 19.64        | 1.91    | 3.15    | 11.49   | 2.78       | -15.14     | -3.93      | 4.25        | 1.01     |
| 2548 | 3           | 10          | 15         | 19.66        | 2.12    | 3.10    | 11.49   | 4.30       | -16.47     | -4.21      | 4.35        | 0.91     |
| 2549 | 3           | 10          | 15         | 19.68        | 2.11    | 3.06    | 11.49   | 4.30       | -16.52     | -4.27      | 4.35        | 0.91     |
| 2577 | 3           | 20          | -10        | 19.63        | 7.14    | -9.66   | 11.49   | 0.99       | -4.25      | -5.77      | 2.73        | 2.34     |
| 2573 | 3           | 20          | -5         | 19.61        | 4.50    | 0.80    | 11.49   | -1.01      | -4.38      | -2.88      | 3.23        | 1.84     |
| 2569 | 3           | 20          | 0          | 19.66        | 3.50    | 5.17    | 11.49   | -0.96      | -7.48      | -3.96      | 3.67        | 1.40     |
| 2565 | 3           | 20          | 5          | 19.64        | 1.90    | 3.95    | 11.49   | 0.06       | -11.98     | -3.92      | 4.35        | 0.72     |
| 2560 | 3           | 20          | 10         | 19.65        | 1.77    | 3.49    | 11.49   | 1.44       | -16.00     | -4.15      | 4.67        | 0.40     |
| 2555 | 3           | 20          | 15         | 19.66        | 1.56    | 2.68    | 11.49   | 3.07       | -17.63     | -3.50      | 4.89        | 0.18     |
| 3312 | 6           | -10         | -15        | 19.58        | 2.15    | -2.16   | 11.49   | -4.80      | -20.03     | 3.51       | 5.48        | 0.94     |
| 3308 | 6           | -10         | -10        | 19.58        | 1.84    | -1.79   | 11.49   | -2.57      | -18.10     | 2.83       | 5.37        | 1.05     |
| 3304 | 6           | -10         | -5         | 19.57        | 1.98    | -1.38   | 11.49   | -0.40      | -15.22     | 2.10       | 5.12        | 1.30     |
| 3287 | 6           | -10         | 0          | 19.62        | 2.70    | 0.22    | 11.49   | 0.97       | -12.40     | -0.86      | 4.60        | 1.82     |
| 3292 | 6           | -10         | 5          | 19.59        | 3.58    | 4.37    | 11.49   | 1.41       | -10.15     | -6.39      | 4.47        | 1.95     |
| 3296 | 6           | -10         | 10         | 19.59        | 6.14    | 12.77   | 11.49   | 0.18       | -6.35      | -16.69     | 4.12        | 2.30     |
| 2661 | 6           | 0           | -15        | 19.69        | 1.44    | -0.41   | 11.49   | -4.93      | -16.92     | 1.19       | 5.27        | 1.21     |
| 2657 | 6           | 0           | -10        | 19.70        | 1.41    | 0.10    | 11.49   | -3.18      | -18.18     | 0.54       | 5.20        | 1.28     |
| 2653 | 6           | 0           | -5         | 19.69        | 1.39    | 0.44    | 11.49   | -1.32      | -18.66     | -0.11      | 5.28        | 1.20     |
| 2619 | 6           | 0           | 0          | 19.61        | 1.56    | 0.80    | 11.49   | 0.67       | -18.97     | -0.85      | 5.26        | 1.22     |
| 2623 | 6           | 0           | 5          | 19.65        | 1.61    | 1.22    | 11.49   | 2.69       | -18.99     | -1.52      | 5.23        | 1.25     |
| 2645 | 6           | 0           | 10         | 19.68        | 1.94    | 1.94    | 11.49   | 4.61       | -18.54     | -2.79      | 5.14        | 1.34     |
| 2649 | 6           | 0           | 15         | 19.69        | 2.51    | 2.60    | 11.49   | 6.28       | -17.42     | -4.20      | 5.13        | 1.35     |
| 2691 | 6           | 10          | -15        | 19.64        | 3.72    | -2.64   | 11.49   | -2.96      | -10.38     | 4.30       | 4.43        | 1.99     |
| 2743 | 6           | 10          | -15        | 19.67        | 3.67    | -2.43   | 11.49   | -2.97      | -10.29     | 4.16       | 4.40        | 2.02     |
| 2686 | 6           | 10          | -10        | 19.60        | 2.23    | 1.61    | 11.49   | -3.08      | -13.18     | -1.15      | 4.82        | 1.60     |
| 2687 | 6           | 10          | -10        | 19.61        | 2.29    | 1.68    | 11.49   | -3.06      | -13.20     | -1.16      | 4.79        | 1.63     |
| 2682 | 6           | 10          | -5         | 19.63        | 1.65    | 2.43    | 11.49   | -1.98      | -16.67     | -2.70      | 5.18        | 1.24     |
| 2666 | 6           | 10          | 0          | 19.68        | 1.31    | 2.22    | 11.49   | -0.42      | -18.93     | -2.79      | 5.39        | 1.03     |
| 2670 | 6           | 10          | 5          | 19.69        | 1.57    | 2.27    | 11.49   | 1.30       | -19.84     | -3.07      | 5.50        | 0.92     |
| 2674 | 6           | 10          | 10         | 19.71        | 1.89    | 2.43    | 11.49   | 3.21       | -20.99     | -3.53      | 5.54        | 0.88     |
| 2678 | 6           | 10          | 15         | 19.61        | 1.84    | 2.25    | 11.49   | 4.94       | -20.63     | -3.56      | 5.60        | 0.82     |
| 2704 | 6           | 20          | -15        | 19.66        | 9.29    | -16.85  | 11.49   | 1.00       | -8.18      | 9.46       | 3.22        | 3.01     |
| 2699 | 6           | 20          | -10        | 19.66        | 3.84    | -1.15   | 11.49   | -2.07      | -10.26     | 1.32       | 4.23        | 2.00     |
| 2700 | 6           | 20          | -10        | 19.61        | 3.91    | -1.03   | 11.49   | -2.14      | -10.28     | 1.12       | 4.08        | 2.15     |
| 2708 | 6           | 20          | -5         | 19.65        | 2.40    | 4.74    | 11.49   | -2.40      | -12.86     | -4.87      | 4.58        | 1.65     |
| 2712 | 6           | 20          | 0          | 19.62        | 2.17    | 6.21    | 11.49   | -1.78      | -15.72     | -7.45      | 5.03        | 1.20     |
| 2716 | 6           | 20          | 5          | 19.65        | 1.85    | 3.85    | 11.49   | 0.22       | -19.60     | -4.84      | 5.49        | 0.74     |
| 2737 | 6           | 20          | 5          | 19.64        | 1.62    | 3.53    | 11.49   | 0.19       | -18.79     | -4.61      | 5.57        | 0.66     |
| 2736 | 6           | 20          | 10         | 19.66        | 1.74    | 3.16    | 11.49   | 1.89       | -20.54     | -4.32      | 5.77        | 0.46     |
| 2741 | 6           | 20          | 15         | 19.67        | 1.81    | 2.54    | 11.49   | 3.80       | -20.41     | -3.78      | 5.94        | 0.29     |

\* Indicates model was close to heave stop

TABLE 5.200.1 - STABILITY DATA IN WIND AXES WITHOUT AIR TARES

20 deg Deadrise, L/R = 0.000, Cv = 0

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 1708 | -2          | -10         | 0          | 0            | 0.06    | -0.04   | 11.49   | 0.38       | 0.02       | 0.01       | 2.24        | 1.06     |
| 1712 | -2          | -10         | 5          | 0            | 0.03    | -0.00   | 11.49   | 0.45       | 0.04       | 0.02       | 2.21        | 1.09     |
| 1715 | -2          | -10         | 10         | 0            | 0.01    | -0.04   | 11.49   | 0.41       | 0.10       | 0.02       | 2.20        | 1.10     |
| 1717 | -2          | -10         | 15         | 0            | 0.01    | -0.03   | 11.49   | 0.38       | 0.11       | 0.00       | 2.20        | 1.10     |
| 1644 | -2          | 0           | 0          | 0            | 0.03    | -0.04   | 11.49   | -0.02      | 0.23       | 0.02       | 2.34        | 1.02     |
| 1649 | -2          | 0           | 5          | 0            | 0.03    | -0.02   | 11.49   | -0.03      | 0.19       | 0.01       | 2.27        | 1.09     |
| 1652 | -2          | 0           | 10         | 0            | 0.03    | -0.04   | 11.49   | -0.04      | 0.16       | 0.01       | 2.26        | 1.10     |
| 1655 | -2          | 0           | 15         | 0            | 0.04    | -0.05   | 11.49   | -0.04      | 0.10       | 0.00       | 2.26        | 1.10     |
| 1659 | -2          | 10          | 0          | 0            | 0.04    | -0.05   | 11.49   | -0.45      | -0.13      | 0.03       | 2.37        | 0.93     |
| 1663 | -2          | 10          | 5          | 0            | 0.03    | -0.02   | 11.49   | -0.43      | -0.19      | 0.02       | 2.36        | 0.94     |
| 1682 | -2          | 10          | 10         | 0            | 0.02    | -0.10   | 11.49   | -0.46      | -0.21      | 0.01       | 2.33        | 0.97     |
| 1687 | -2          | 10          | 15         | 0            | 0.03    | -0.03   | 11.49   | -0.36      | -0.33      | 0.00       | 2.31        | 0.99     |
| 1691 | -2          | 20          | 0          | 0            | 0.04    | -0.04   | 11.49   | -0.59      | -0.48      | 0.02       | 2.36        | 0.75     |
| 1695 | -2          | 20          | 5          | 0            | 0.05    | -0.05   | 11.49   | -0.54      | -0.47      | 0.02       | 2.37        | 0.74     |
| 1700 | -2          | 20          | 10         | 0            | 0.02    | -0.04   | 11.49   | -0.49      | -0.54      | 0.01       | 2.35        | 0.76     |
| 1702 | -2          | 20          | 15         | 0            | 0.03    | -0.01   | 11.49   | -0.35      | -0.57      | 0.02       | 2.35        | 0.76     |
| 1626 | 0           | -10         | 0          | 0            | 0.00    | -0.01   | 11.49   | 0.41       | -4.06      | 0.03       | 2.31        | 1.78     |
| 1630 | 0           | -10         | 5          | 0            | -0.01   | 0.02    | 11.49   | 0.79       | -4.00      | 0.00       | 2.32        | 1.77     |
| 1634 | 0           | -10         | 10         | 0            | 0.00    | 0.01    | 11.49   | 1.13       | -3.90      | 0.02       | 2.33        | 1.76     |
| 1638 | 0           | -10         | 15         | 0            | 0.01    | 0.02    | 11.49   | 1.49       | -3.88      | 0.01       | 2.31        | 1.78     |
| 1558 | 0           | 0           | 0          | 0            | 0.00    | -0.02   | 11.49   | -0.02      | -4.16      | 0.04       | 2.06        | 2.09     |
| 1563 | 0           | 0           | 5          | 0            | 0.00    | 0.00    | 11.49   | 0.38       | -4.17      | 0.02       | 2.29        | 1.86     |
| 1567 | 0           | 0           | 10         | 0            | 0.01    | -0.00   | 11.49   | 0.71       | -4.05      | 0.02       | 2.37        | 1.78     |
| 1571 | 0           | 0           | 15         | 0            | 0.01    | -0.00   | 11.49   | 1.08       | -4.05      | 0.03       | 2.38        | 1.77     |
| 1578 | 0           | 10          | 0          | 0            | 0.02    | -0.02   | 11.49   | -0.48      | -4.27      | 0.03       | 2.30        | 1.79     |
| 1581 | 0           | 10          | 5          | 0            | 0.01    | -0.00   | 11.49   | -0.07      | -4.31      | 0.04       | 2.31        | 1.78     |
| 1587 | 0           | 10          | 10         | 0            | 0.00    | 0.01    | 11.49   | 0.28       | -4.22      | 0.02       | 2.33        | 1.76     |
| 1590 | 0           | 10          | 15         | 0            | -0.00   | 0.02    | 11.49   | 0.65       | -4.18      | 0.03       | 2.35        | 1.74     |
| 1606 | 0           | 20          | 0          | 0            | 0.00    | -0.03   | 11.49   | -0.59      | -4.21      | 0.03       | 2.37        | 1.53     |
| 1610 | 0           | 20          | 5          | 0            | 0.01    | -0.00   | 11.49   | -0.23      | -4.29      | 0.01       | 2.37        | 1.53     |
| 1614 | 0           | 20          | 10         | 0            | 0.00    | 0.00    | 11.49   | 0.16       | -4.29      | 0.02       | 2.39        | 1.51     |
| 1618 | 0           | 20          | 15         | 0            | 0.00    | 0.00    | 11.49   | 0.54       | -4.28      | 0.03       | 2.42        | 1.48     |
| 1396 | 3           | -10         | 0          | 0            | 0.01    | -0.03   | 11.49   | 0.36       | -9.12      | 0.02       | 2.62        | 2.64     |
| 1392 | 3           | -10         | 5          | 0            | 0.00    | 0.04    | 11.49   | 1.15       | -9.03      | 0.03       | 2.62        | 2.64     |
| 1389 | 3           | -10         | 10         | 0            | 0.01    | 0.03    | 11.49   | 1.93       | -8.96      | 0.03       | 2.61        | 2.65     |
| 1383 | 3           | -10         | 15         | 0            | -0.02   | 0.03    | 11.49   | 2.67       | -8.69      | 0.05       | 2.62        | 2.64     |
| 1401 | 3           | 0           | 0          | 0            | 0.01    | 0.04    | 11.49   | 0.00       | -9.49      | 0.04       | 2.51        | 2.81     |
| 1404 | 3           | 0           | 0          | 0            | 0.01    | 0.05    | 11.49   | 0.01       | -9.48      | 0.04       | 2.53        | 2.79     |
| 1408 | 3           | 0           | 5          | 0            | 0.01    | 0.03    | 11.49   | 0.80       | -9.38      | 0.05       | 2.52        | 2.80     |
| 1412 | 3           | 0           | 10         | 0            | 0.01    | 0.04    | 11.49   | 1.63       | -9.24      | 0.03       | 2.52        | 2.80     |
| 1416 | 3           | 0           | 15         | 0            | 0.01    | 0.04    | 11.49   | 2.43       | -9.08      | 0.03       | 2.53        | 2.79     |

\* Indicates model was close to heave stop

TABLE 5.200.2 - STABILITY DATA IN WIND AXES WITHOUT AIR TARES

20 deg Deadrise, L/R = 0.000, Cv = 0

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 1435 | 3           | 10          | 0          | 0            | 0.00    | -0.01   | 11.49   | -0.39      | -9.10      | 0.05       | 2.55        | 2.71     |
| 1441 | 3           | 10          | 5          | 0            | -0.01   | 0.02    | 11.49   | 0.43       | -9.20      | 0.04       | 2.55        | 2.71     |
| 1444 | 3           | 10          | 10         | 0            | 0.01    | 0.03    | 11.49   | 1.21       | -9.07      | 0.05       | 2.56        | 2.70     |
| 1448 | 3           | 10          | 15         | 0            | -0.00   | 0.03    | 11.49   | 2.00       | -8.92      | 0.04       | 2.56        | 2.70     |
| 1456 | 3           | 20          | 0          | 0            | -0.05   | 0.04    | 11.49   | -0.54      | -8.91      | 0.08       | 2.62        | 2.45     |
| 1460 | 3           | 20          | 5          | 0            | 0.01    | -0.00   | 11.49   | 0.21       | -8.90      | 0.04       | 2.61        | 2.46     |
| 1464 | 3           | 20          | 10         | 0            | 0.00    | 0.02    | 11.49   | 0.98       | -8.86      | 0.03       | 2.61        | 2.46     |
| 1468 | 3           | 20          | 15         | 0            | 0.01    | 0.02    | 11.49   | 1.75       | -8.73      | 0.03       | 2.61        | 2.46     |
| 1540 | 6           | -10         | 0          | 0            | -0.01   | 0.06    | 11.49   | 0.27       | -12.18     | 0.05       | 2.99        | 3.43     |
| 1544 | 6           | -10         | 5          | 0            | 0.00    | 0.05    | 11.49   | 1.30       | -11.90     | 0.03       | 3.00        | 3.42     |
| 1548 | 6           | -10         | 10         | 0            | 0.00    | 0.07    | 11.49   | 2.35       | -11.82     | 0.05       | 2.99        | 3.43     |
| 1552 | 6           | -10         | 15         | 0            | -0.00   | 0.06    | 11.49   | 3.38       | -11.63     | 0.05       | 2.96        | 3.46     |
| 1475 | 6           | 0           | 0          | 0            | 0.00    | 0.04    | 11.49   | -0.01      | -12.33     | 0.06       | 2.98        | 3.50     |
| 1479 | 6           | 0           | 5          | 0            | -0.01   | 0.09    | 11.49   | 1.10       | -12.25     | 0.05       | 2.99        | 3.49     |
| 1483 | 6           | 0           | 10         | 0            | 0.00    | 0.06    | 11.49   | 2.12       | -12.01     | 0.04       | 3.00        | 3.48     |
| 1487 | 6           | 0           | 15         | 0            | 0.00    | 0.09    | 11.49   | 3.22       | -12.02     | 0.04       | 2.96        | 3.52     |
| 1493 | 6           | 10          | 0          | 0            | 0.01    | 0.05    | 11.49   | -0.27      | -12.28     | 0.05       | 2.97        | 3.45     |
| 1497 | 6           | 10          | 5          | 0            | 0.01    | 0.08    | 11.49   | 0.82       | -12.20     | 0.05       | 2.97        | 3.45     |
| 1501 | 6           | 10          | 10         | 0            | 0.01    | 0.09    | 11.49   | 1.87       | -12.09     | 0.06       | 2.98        | 3.44     |
| 1505 | 6           | 10          | 15         | 0            | -0.00   | 0.07    | 11.49   | 2.89       | -11.80     | 0.05       | 2.98        | 3.44     |
| 1521 | 6           | 20          | 0          | 0            | -0.03   | 0.05    | 11.49   | -0.46      | -11.86     | 0.06       | 3.03        | 3.20     |
| 1526 | 6           | 20          | 5          | 0            | 0.00    | 0.05    | 11.49   | 0.56       | -11.96     | 0.04       | 3.02        | 3.21     |
| 1529 | 6           | 20          | 10         | 0            | 0.01    | 0.05    | 11.49   | 1.58       | -11.74     | 0.04       | 3.03        | 3.20     |
| 1533 | 6           | 20          | 15         | 0            | 0.00    | 0.04    | 11.49   | 2.59       | -11.56     | 0.04       | 3.03        | 3.20     |

\* Indicates model was close to heave stop

TABLE 5.201.1 - STABILITY DATA IN WIND AXES WITHOUT AIR TARES

20 deg Deadrise, L/R = 0.000, Cv = 1.5

| FUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|--------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 1709   | -2          | -10         | 0          | 7.36         | 1.44    | 0.09    | 11.49   | 0.23       | 3.58       | 0.22       | 1.88        | 1.42     |
| 1713   | -2          | -10         | 5          | 7.36         | 1.66    | 1.07    | 11.49   | -0.14      | 3.82       | 2.03       | 1.72        | 1.58     |
| 1716 * | -2          | -10         | 10         | 7.36         | 2.42    | 3.04    | 11.49   | -1.01      | 4.56       | 5.13       | 1.45        | 1.85     |
| 1718 * | -2          | -10         | 15         | 7.37         | 3.81    | 6.23    | 11.49   | -2.28      | 5.72       | 8.90       | 1.21        | 2.09     |
| 1645   | -2          | 0           | 0          | 7.37         | 1.47    | -0.02   | 11.49   | 0.05       | 3.94       | 0.06       | 1.96        | 1.40     |
| 1648   | -2          | 0           | 5          | 7.37         | 1.65    | 0.85    | 11.49   | -0.46      | 4.10       | 1.62       | 1.81        | 1.55     |
| 1653   | -2          | 0           | 10         | 7.36         | 2.53    | 2.79    | 11.49   | -1.22      | 4.45       | 4.37       | 1.56        | 1.80     |
| 1656 * | -2          | 0           | 15         | 7.37         | 4.38    | 6.44    | 11.49   | -2.36      | 5.64       | 9.02       | 1.16        | 2.20     |
| 1660   | -2          | 10          | 0          | 7.37         | 1.43    | -0.11   | 11.49   | -0.21      | 3.51       | -0.16      | 2.02        | 1.28     |
| 1664   | -2          | 10          | 5          | 7.37         | 1.53    | 0.62    | 11.49   | -0.72      | 3.83       | 1.24       | 1.97        | 1.33     |
| 1681   | -2          | 10          | 5          | 7.36         | 1.54    | 0.65    | 11.49   | -0.74      | 3.81       | 1.30       | 1.87        | 1.43     |
| 1683   | -2          | 10          | 10         | 7.36         | 2.21    | 2.12    | 11.49   | -1.37      | 4.52       | 3.52       | 1.72        | 1.58     |
| 1686 * | -2          | 10          | 15         | 7.37         | 3.94    | 5.36    | 11.49   | -2.38      | 5.56       | 7.75       | 1.33        | 1.97     |
| 1692   | -2          | 20          | 0          | 7.37         | 1.38    | -0.19   | 11.49   | -0.43      | 2.91       | -0.35      | 2.03        | 1.08     |
| 1696   | -2          | 20          | 5          | 7.36         | 1.46    | 0.60    | 11.49   | -0.76      | 3.26       | 1.21       | 2.00        | 1.11     |
| 1699   | -2          | 20          | 10         | 7.36         | 1.88    | 1.99    | 11.49   | -1.37      | 4.21       | 3.31       | 1.82        | 1.29     |
| 1703 * | -2          | 20          | 15         | 7.36         | 3.45    | 4.87    | 11.49   | -2.39      | 4.83       | 7.08       | 1.35        | 1.76     |
| 1627   | 0           | -10         | 0          | 7.37         | 1.21    | 0.09    | 11.49   | 0.40       | -0.14      | 0.22       | 2.10        | 1.99     |
| 1631   | 0           | -10         | 5          | 7.39         | 1.38    | 0.87    | 11.49   | 0.40       | 0.01       | 1.15       | 2.03        | 2.06     |
| 1635   | 0           | -10         | 10         | 7.39         | 2.05    | 2.44    | 11.49   | 0.09       | 0.68       | 2.72       | 1.81        | 2.28     |
| 1639 * | 0           | -10         | 15         | 7.36         | 3.71    | 5.81    | 11.49   | -0.74      | 2.21       | 5.64       | 1.36        | 2.73     |
| 1560   | 0           | 0           | 0          | 7.36         | 1.22    | 0.02    | 11.49   | 0.02       | -0.02      | 0.04       | 1.91        | 2.24     |
| 1564   | 0           | 0           | 5          | 7.37         | 1.39    | 0.66    | 11.49   | 0.05       | 0.03       | 0.92       | 2.08        | 2.07     |
| 1568   | 0           | 0           | 10         | 7.37         | 1.87    | 1.78    | 11.49   | -0.14      | 0.80       | 2.25       | 1.96        | 2.19     |
| 1572 * | 0           | 0           | 15         | 7.37         | 3.34    | 4.71    | 11.49   | -0.87      | 2.02       | 4.85       | 1.52        | 2.63     |
| 1577   | 0           | 10          | 0          | 7.37         | 1.21    | -0.09   | 11.49   | -0.42      | -0.27      | -0.18      | 2.08        | 2.01     |
| 1582   | 0           | 10          | 5          | 7.37         | 1.34    | 0.51    | 11.49   | -0.39      | -0.01      | 0.82       | 2.08        | 2.01     |
| 1586   | 0           | 10          | 10         | 7.37         | 1.80    | 1.58    | 11.49   | -0.49      | 0.76       | 2.08       | 1.99        | 2.10     |
| 1591   | 0           | 10          | 15         | 7.38         | 2.93    | 3.75    | 11.49   | -0.94      | 2.05       | 3.95       | 1.70        | 2.39     |
| 1607   | 0           | 20          | 0          | 7.36         | 1.18    | -0.22   | 11.49   | -0.50      | -0.53      | -0.37      | 2.16        | 1.74     |
| 1611   | 0           | 20          | 5          | 7.38         | 1.22    | 0.44    | 11.49   | -0.57      | -0.24      | 0.43       | 2.15        | 1.75     |
| 1615   | 0           | 20          | 10         | 7.37         | 1.60    | 1.57    | 11.49   | -0.69      | 0.47       | 1.53       | 2.07        | 1.83     |
| 1619   | 0           | 20          | 15         | 7.37         | 2.63    | 3.41    | 11.49   | -1.04      | 1.84       | 3.26       | 1.84        | 2.06     |
| 1397   | 3           | -10         | 0          | 7.36         | 1.29    | 0.18    | 11.49   | 0.48       | -5.41      | -0.00      | 2.61        | 2.65     |
| 1393   | 3           | -10         | 5          | 7.37         | 1.42    | 0.87    | 11.49   | 0.94       | -5.10      | -0.11      | 2.55        | 2.71     |
| 1390   | 3           | -10         | 10         | 7.37         | 1.94    | 2.13    | 11.49   | 1.13       | -4.29      | -0.26      | 2.40        | 2.86     |
| 1405   | 3           | 0           | 0          | 7.36         | 1.15    | 0.09    | 11.49   | 0.07       | -5.62      | 0.01       | 2.54        | 2.78     |
| 1409   | 3           | 0           | 5          | 7.37         | 1.38    | 0.72    | 11.49   | 0.58       | -5.43      | -0.06      | 2.50        | 2.82     |
| 1413   | 3           | 0           | 10         | 7.37         | 1.76    | 1.73    | 11.49   | 1.02       | -4.74      | -0.20      | 2.38        | 2.94     |
| 1417   | 3           | 0           | 15         | 7.37         | 2.85    | 3.99    | 11.49   | 1.04       | -3.29      | -0.49      | 2.13        | 3.19     |

\* Indicates model was close to heave stop

TABLE 5.201.2 - STABILITY DATA IN WIND AXES WITHOUT AIR TARES

20 deg Deadrise, L/R = 0.000, Cv = 1.5

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 1436 | 3           | 10          | 0          | 7.37         | 1.27    | -0.08   | 11.49   | -0.45      | -5.43      | 0.04       | 2.54        | 2.72     |
| 1440 | 3           | 10          | 5          | 7.37         | 1.33    | 0.62    | 11.49   | 0.06       | -5.25      | -0.13      | 2.54        | 2.72     |
| 1445 | 3           | 10          | 10         | 7.37         | 1.67    | 1.66    | 11.49   | 0.55       | -4.38      | -0.41      | 2.45        | 2.81     |
| 1449 | 3           | 10          | 15         | 7.37         | 2.39    | 3.09    | 11.49   | 0.72       | -2.91      | -0.61      | 2.30        | 2.96     |
| 1457 | 3           | 20          | 0          | 7.37         | 1.24    | 0.04    | 11.49   | -0.54      | -5.31      | 0.10       | 2.61        | 2.46     |
| 1461 | 3           | 20          | 5          | 7.37         | 1.40    | 0.78    | 11.49   | -0.20      | -5.07      | -0.20      | 2.59        | 2.48     |
| 1465 | 3           | 20          | 10         | 7.36         | 1.76    | 1.97    | 11.49   | 0.09       | -4.27      | -0.80      | 2.51        | 2.56     |
| 1469 | 3           | 20          | 15         | 7.37         | 2.35    | 3.12    | 11.49   | 0.24       | -2.75      | -1.19      | 2.42        | 2.65     |
| 1541 | 6           | -10         | 0          | 7.37         | 1.58    | -0.11   | 11.49   | 0.37       | -8.95      | 0.08       | 3.20        | 3.22     |
| 1545 | 6           | -10         | 5          | 7.37         | 1.73    | 0.84    | 11.49   | 1.10       | -8.79      | -0.88      | 3.13        | 3.29     |
| 1549 | 6           | -10         | 10         | 7.37         | 2.12    | 2.04    | 11.49   | 1.68       | -8.18      | -1.96      | 3.00        | 3.42     |
| 1553 | 6           | -10         | 15         | 7.37         | 3.12    | 4.26    | 11.49   | 1.90       | -7.29      | -3.84      | 2.73        | 3.69     |
| 1476 | 6           | 0           | 0          | 7.37         | 1.50    | 0.04    | 11.49   | 0.01       | -9.08      | 0.04       | 3.22        | 3.26     |
| 1480 | 6           | 0           | 5          | 7.37         | 1.69    | 0.99    | 11.49   | 0.85       | -8.96      | -0.88      | 3.17        | 3.31     |
| 1484 | 6           | 0           | 10         | 7.37         | 2.05    | 1.92    | 11.49   | 1.54       | -8.45      | -1.81      | 3.09        | 3.39     |
| 1488 | 6           | 0           | 15         | 7.38         | 2.75    | 3.37    | 11.49   | 2.01       | -7.63      | -3.14      | 2.93        | 3.55     |
| 1494 | 6           | 10          | 0          | 7.37         | 1.61    | 0.31    | 11.49   | -0.31      | -9.07      | -0.05      | 3.18        | 3.24     |
| 1498 | 6           | 10          | 5          | 7.36         | 1.72    | 1.28    | 11.49   | 0.46       | -8.83      | -1.06      | 3.17        | 3.25     |
| 1502 | 6           | 10          | 10         | 7.37         | 2.05    | 2.26    | 11.49   | 1.13       | -8.12      | -2.15      | 3.14        | 3.28     |
| 1506 | 6           | 10          | 15         | 7.37         | 2.62    | 3.21    | 11.49   | 1.70       | -7.40      | -3.09      | 3.06        | 3.36     |
| 1522 | 6           | 20          | 0          | 7.37         | 1.69    | 0.32    | 11.49   | -0.52      | -8.76      | 0.10       | 3.18        | 3.05     |
| 1525 | 6           | 20          | 5          | 7.36         | 1.90    | 1.45    | 11.49   | 0.16       | -8.69      | -1.05      | 3.21        | 3.02     |
| 1530 | 6           | 20          | 10         | 7.36         | 2.21    | 2.71    | 11.49   | 0.77       | -8.10      | -2.35      | 3.21        | 3.02     |
| 1534 | 6           | 20          | 15         | 7.37         | 2.61    | 3.49    | 11.49   | 1.34       | -7.26      | -3.25      | 3.24        | 2.99     |

\* Indicates model was close to heave stop

TABLE 5.203.1 - STABILITY DATA IN WIND AXES WITHOUT AIR TARES

20 deg Deadrise, L/R = 0.000, Cv = 3

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|--------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 1710   | -2          | -10         | 0          | 14.74        | 6.26    | 1.70    | 11.49   | 0.54       | 1.24       | 1.60       | 1.68        | 1.62     |
| 1714 * | -2          | -10         | 5          | 14.72        | 7.28    | 7.77    | 11.49   | -0.14      | 2.61       | 11.14      | 1.34        | 1.96     |
| 1646   | -2          | 0           | 0          | 14.74        | 5.96    | 0.22    | 11.49   | 0.12       | 0.33       | 0.14       | 1.86        | 1.50     |
| 1650 * | -2          | 0           | 5          | 14.72        | 6.89    | 5.25    | 11.49   | -0.67      | 1.17       | 7.96       | 1.52        | 1.84     |
| 1654 * | -2          | 0           | 10         | 14.73        | 10.45   | 16.88   | 11.49   | -2.43      | 4.45       | 19.25      | 1.20        | 2.16     |
| 1721 * | -2          | 0           | 10         | 14.72        | 11.05   | 19.54   | 11.49   | -2.40      | 4.30       | 21.87      | 0.80        | 2.56     |
| 1661   | -2          | 10          | 0          | 14.77        | 5.87    | -1.27   | 11.49   | -0.21      | 1.28       | -1.25      | 1.91        | 1.39     |
| 1665   | -2          | 10          | 5          | 14.74        | 6.58    | 3.13    | 11.49   | -1.21      | 2.53       | 5.74       | 1.63        | 1.67     |
| 1680   | -2          | 10          | 5          | 14.74        | 6.55    | 3.23    | 11.49   | -0.95      | 2.53       | 6.12       | 1.57        | 1.73     |
| 1684 * | -2          | 10          | 10         | 14.74        | 9.37    | 12.63   | 11.49   | -2.27      | 4.37       | 14.78      | 1.35        | 1.95     |
| 1688 * | -2          | 10          | 15         | 14.71        | 15.03   | 23.76   | 11.49   | -2.32      | 5.55       | 22.28      | 1.39        | 1.91     |
| 1693   | -2          | 20          | 0          | 14.74        | 4.58    | -0.18   | 11.49   | -0.21      | 2.27       | -0.04      | 2.01        | 1.10     |
| 1697   | -2          | 20          | 5          | 14.73        | 4.97    | 3.96    | 11.49   | -0.87      | 3.34       | 6.84       | 1.91        | 1.20     |
| 1701 * | -2          | 20          | 10         | 14.73        | 9.72    | 10.13   | 11.49   | -2.59      | 8.60       | 11.50      | 1.31        | 1.80     |
| 1628   | 0           | -10         | 0          | 14.74        | 3.63    | 0.33    | 11.49   | 0.31       | 3.00       | 0.80       | 2.28        | 1.81     |
| 1632   | 0           | -10         | 5          | 14.73        | 4.84    | 4.25    | 11.49   | -0.08      | 2.71       | 2.50       | 2.09        | 2.00     |
| 1636 * | 0           | -10         | 10         | 14.76        | 10.31   | 17.81   | 11.49   | -1.92      | 6.05       | 10.30      | 1.09        | 3.00     |
| 1640 * | 0           | -10         | 15         | 14.73        | 15.66   | 30.20   | 11.49   | -3.41      | 6.93       | 19.04      | 1.09        | 3.00     |
| 1561   | 0           | 0           | 0          | 14.79        | 3.75    | 0.12    | 11.49   | 0.05       | 5.05       | -0.04      | 2.12        | 2.03     |
| 1565   | 0           | 0           | 5          | 14.75        | 4.51    | 3.03    | 11.49   | -0.22      | 5.38       | 2.62       | 2.21        | 1.94     |
| 1569 * | 0           | 0           | 10         | 14.77        | 8.97    | 13.08   | 11.49   | -1.69      | 7.26       | 5.63       | 1.33        | 2.82     |
| 1573 * | 0           | 0           | 15         | 14.73        | 18.35   | 35.37   | 11.49   | -2.35      | 5.05       | 24.90      | 0.59        | 3.56     |
| 1579   | 0           | 10          | 0          | 14.74        | 3.56    | -0.20   | 11.49   | -0.24      | 2.92       | -0.73      | 2.29        | 1.80     |
| 1583   | 0           | 10          | 5          | 14.71        | 4.09    | 2.54    | 11.49   | -0.47      | 6.26       | 2.03       | 2.27        | 1.82     |
| 1588   | 0           | 10          | 10         | 14.73        | 6.56    | 7.64    | 11.49   | -1.44      | 9.94       | 5.68       | 2.07        | 2.02     |
| 1592 * | 0           | 10          | 15         | 14.73        | 19.10   | 31.95   | 11.49   | -2.27      | 9.45       | 18.67      | 0.49        | 3.60     |
| 1608   | 0           | 20          | 0          | 14.75        | 3.47    | -0.40   | 11.49   | -0.36      | 1.09       | -1.21      | 2.40        | 1.50     |
| 1612   | 0           | 20          | 5          | 14.74        | 3.68    | 2.24    | 11.49   | -0.76      | 5.32       | 0.46       | 2.31        | 1.59     |
| 1616   | 0           | 20          | 10         | 14.73        | 4.29    | 4.46    | 11.49   | -1.33      | 7.54       | 2.08       | 2.55        | 1.35     |
| 1620   | 0           | 20          | 15         | 14.72        | 4.83    | 6.46    | 11.49   | -1.58      | 5.77       | 0.98       | 2.93        | 0.97     |
| 1398   | 3           | -10         | 0          | 14.73        | 2.43    | -0.21   | 11.49   | 0.55       | -3.35      | 0.50       | 3.13        | 2.13     |
| 1394   | 3           | -10         | 5          | 14.75        | 3.09    | 2.26    | 11.49   | 0.90       | -2.88      | -0.98      | 3.01        | 2.25     |
| 1391   | 3           | -10         | 10         | 14.72        | 5.20    | 7.80    | 11.49   | 0.48       | 0.04       | -3.43      | 2.67        | 2.59     |
| 1400   | 3           | -10         | 13         | 14.73        | 8.67    | 15.82   | 11.49   | -0.65      | 3.95       | -4.11      | 2.19        | 3.07     |
| 1388   | 3           | -10         | 15         | 14.74        | 12.90   | 25.13   | 11.49   | -1.75      | 6.31       | -1.87      | 1.72        | 3.54     |
| 1406   | 3           | 0           | 0          | 14.74        | 2.21    | 0.14    | 11.49   | 0.04       | -3.94      | 0.04       | 3.06        | 2.26     |
| 1410   | 3           | 0           | 5          | 14.73        | 2.65    | 1.88    | 11.49   | 0.65       | -3.58      | -0.61      | 3.03        | 2.29     |
| 1414   | 3           | 0           | 10         | 14.72        | 3.90    | 4.86    | 11.49   | 1.04       | -1.82      | -2.02      | 2.86        | 2.46     |
| 1418   | 3           | 0           | 15         | 14.74        | 7.97    | 13.28   | 11.49   | -0.03      | 3.43       | -4.06      | 2.42        | 2.90     |

\* Indicates model was close to heave stop

TABLE 5.203.2 - STABILITY DATA IN WIND AXES WITHOUT AIR TARES

20 deg Deadrise, L/R = 0.000, Cv = 3

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 1437 | 3           | 10          | 0          | 14.75        | 2.40    | 0.53    | 11.49   | -0.54      | -3.50      | -0.67      | 3.09        | 2.17     |
| 1442 | 3           | 10          | 5          | 14.77        | 2.37    | 2.00    | 11.49   | 0.20       | -4.39      | -1.29      | 3.23        | 2.03     |
| 1446 | 3           | 10          | 10         | 14.72        | 2.87    | 3.65    | 11.49   | 1.04       | -4.98      | -2.29      | 3.31        | 1.95     |
| 1450 | 3           | 10          | 15         | 14.73        | 3.82    | 5.75    | 11.49   | 1.94       | -4.98      | -3.80      | 3.34        | 1.92     |
| 1458 | 3           | 20          | 0          | 14.75        | 2.60    | 0.45    | 11.49   | -0.78      | -3.18      | -0.01      | 3.07        | 2.00     |
| 1462 | 3           | 20          | 5          | 14.71        | 2.50    | 2.54    | 11.49   | -0.35      | -3.49      | -1.84      | 3.32        | 1.75     |
| 1466 | 3           | 20          | 10         | 14.73        | 2.63    | 3.70    | 11.49   | 0.52       | -6.17      | -3.50      | 3.65        | 1.42     |
| 1470 | 3           | 20          | 15         | 14.72        | 3.00    | 4.62    | 11.49   | 1.74       | -8.54      | -5.25      | 3.91        | 1.16     |
| 1542 | 6           | -10         | 0          | 14.74        | 2.03    | -0.73   | 11.49   | 0.52       | -10.16     | 1.14       | 4.32        | 2.10     |
| 1546 | 6           | -10         | 5          | 14.73        | 2.45    | 0.98    | 11.49   | 1.32       | -8.59      | -1.14      | 4.06        | 2.36     |
| 1550 | 6           | -10         | 10         | 14.73        | 3.58    | 4.60    | 11.49   | 1.67       | -7.09      | -5.25      | 3.79        | 2.63     |
| 1554 | 6           | -10         | 15         | 14.73        | 6.47    | 11.47   | 11.49   | 0.93       | -4.22      | -11.83     | 3.29        | 3.13     |
| 1477 | 6           | 0           | 0          | 14.74        | 1.92    | 0.08    | 11.49   | 0.06       | -11.31     | 0.08       | 4.51        | 1.97     |
| 1481 | 6           | 0           | 5          | 14.72        | 2.19    | 1.16    | 11.49   | 1.19       | -10.98     | -1.21      | 4.44        | 2.04     |
| 1485 | 6           | 0           | 10         | 14.74        | 2.68    | 2.56    | 11.49   | 2.21       | -10.23     | -2.93      | 4.34        | 2.14     |
| 1489 | 6           | 0           | 15         | 14.73        | 3.89    | 5.02    | 11.49   | 2.80       | -8.68      | -5.95      | 4.15        | 2.33     |
| 1495 | 6           | 10          | 0          | 14.75        | 2.03    | 0.95    | 11.49   | -0.46      | -10.48     | -1.07      | 4.39        | 2.03     |
| 1499 | 6           | 10          | 5          | 14.74        | 2.08    | 1.92    | 11.49   | 0.69       | -11.93     | -2.47      | 4.64        | 1.78     |
| 1503 | 6           | 10          | 10         | 14.76        | 2.39    | 2.83    | 11.49   | 2.04       | -13.06     | -4.06      | 4.83        | 1.59     |
| 1507 | 6           | 10          | 15         | 14.72        | 2.95    | 3.76    | 11.49   | 3.47       | -13.70     | -5.73      | 4.91        | 1.51     |
| 1523 | 6           | 20          | 0          | 14.74        | 2.52    | 1.64    | 11.49   | -0.85      | -8.68      | -1.40      | 4.13        | 2.10     |
| 1527 | 6           | 20          | 5          | 14.73        | 2.43    | 2.55    | 11.49   | 0.22       | -10.89     | -3.16      | 4.58        | 1.65     |
| 1531 | 6           | 20          | 10         | 14.73        | 2.45    | 3.00    | 11.49   | 1.38       | -12.62     | -4.33      | 4.96        | 1.27     |
| 1535 | 6           | 20          | 15         | 14.74        | 2.64    | 3.40    | 11.49   | 2.74       | -13.76     | -5.34      | 5.17        | 1.06     |

\* Indicates model was close to heave stop



TABLE 5.204.1 - STABILITY DATA IN WIND AXES WITHOUT AIR TARES

20 deg Deadrise, L/R = 0.000, Cv = 4

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|--------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 1711 * | -2          | -10         | 0          | 19.68        | 11.22   | 4.07    | 11.49   | 0.73       | 0.49       | 4.39       | 1.28        | 2.02     |
| 1647 * | -2          | 0           | 0          | 19.65        | 11.51   | 0.55    | 11.49   | -0.00      | -1.21      | 0.29       | 1.31        | 2.05     |
| 1651 * | -2          | 0           | 5          | 19.67        | 12.88   | 11.44   | 11.49   | -1.31      | 0.82       | 19.63      | 1.21        | 2.15     |
| 1662 * | -2          | 10          | 0          | 19.65        | 11.54   | -3.16   | 11.49   | -0.42      | 1.11       | -5.43      | 1.20        | 2.10     |
| 1666 * | -2          | 10          | 5          | 19.66        | 12.16   | 8.02    | 11.49   | -1.69      | 3.75       | 12.62      | 1.20        | 2.10     |
| 1694 * | -2          | 20          | 0          | 19.63        | 12.55   | -5.66   | 11.49   | -0.16      | 6.79       | -10.62     | 1.27        | 1.84     |
| 1698 * | -2          | 20          | 5          | 19.65        | 12.76   | 2.90    | 11.49   | -1.39      | 9.87       | 4.89       | 1.29        | 1.82     |
| 1629   | 0           | -10         | 0          | 19.62        | 6.09    | 0.54    | 11.49   | 0.00       | 10.11      | 1.73       | 2.17        | 1.92     |
| 1633   | 0           | -10         | 5          | 19.61        | 9.96    | 7.69    | 11.49   | -1.06      | 8.80       | 4.79       | 1.59        | 2.50     |
| 1637 * | 0           | -10         | 10         | 19.66        | 16.77   | 29.58   | 11.49   | -3.31      | 10.22      | 21.97      | 1.08        | 3.01     |
| 1562   | 0           | 0           | 0          | 19.68        | 5.64    | 0.18    | 11.49   | 0.02       | 11.04      | 0.07       | 2.24        | 1.91     |
| 1566   | 0           | 0           | 5          | 19.66        | 7.65    | 5.03    | 11.49   | -0.84      | 12.33      | 4.97       | 2.15        | 2.00     |
| 1570 * | 0           | 0           | 10         | 19.67        | 19.91   | 35.86   | 11.49   | -2.12      | 6.66       | 33.26      | 0.59        | 3.56     |
| 1574 * | 0           | 0           | 15         | 19.67        | 29.24   | 52.42   | 11.49   | -8.09      | 8.72       | 38.01      | 0.59        | 3.56     |
| 1580   | 0           | 10          | 0          | 19.63        | 6.03    | -0.06   | 11.49   | 0.10       | 9.77       | -1.62      | 2.18        | 1.91     |
| 1584   | 0           | 10          | 5          | 19.66        | 5.98    | 3.01    | 11.49   | -0.81      | 11.90      | 2.41       | 2.45        | 1.64     |
| 1589   | 0           | 10          | 10         | 19.65        | 7.32    | 7.77    | 11.49   | -1.33      | 12.17      | 5.16       | 2.61        | 1.48     |
| 1593 * | 0           | 10          | 15         | 19.64        | 24.52   | 35.6    | 11.49   | -4.69      | 22.25      | 17.11      | 1.08        | 3.01     |
| 1609   | 0           | 20          | 0          | 19.67        | 6.49    | -0.34   | 11.49   | -0.09      | 6.37       | -2.10      | 2.17        | 1.73     |
| 1613   | 0           | 20          | 5          | 19.63        | 5.56    | 2.01    | 11.49   | -1.08      | 11.53      | 0.87       | 2.50        | 1.40     |
| 1617   | 0           | 20          | 10         | 19.65        | 5.12    | 4.33    | 11.49   | -1.70      | 7.55       | 0.16       | 3.04        | 0.86     |
| 1621   | 0           | 20          | 15         | 19.66        | 5.35    | 6.04    | 11.49   | -1.90      | 3.59       | -1.70      | 3.34        | 0.56     |
| 1399   | 3           | -10         | 0          | 19.66        | 2.98    | -0.27   | 11.49   | 0.49       | -3.63      | 0.67       | 3.41        | 1.85     |
| 1395   | 3           | -10         | 5          | 19.66        | 4.28    | 3.10    | 11.49   | 0.93       | -0.96      | -1.84      | 3.19        | 2.07     |
| 1385   | 3           | -10         | 10         | 19.64        | 8.15    | 12.52   | 11.49   | -0.09      | 4.54       | -5.86      | 2.69        | 2.57     |
| 1386   | 3           | -10         | 13         | 19.66        | 15.42   | 30.32   | 11.49   | -2.77      | 13.17      | -6.92      | 2.05        | 3.21     |
| 1384 * | 3           | -10         | 15         | 19.65        | 22.73   | 46.49   | 11.49   | -4.60      | 15.54      | -0.42      | 1.52        | 3.74     |
| 1407   | 3           | 0           | 0          | 19.63        | 3.00    | 0.22    | 11.49   | 0.02       | -5.60      | -0.01      | 3.47        | 1.85     |
| 1411   | 3           | 0           | 5          | 19.64        | 3.38    | 2.23    | 11.49   | 0.85       | -4.58      | -1.09      | 3.38        | 1.94     |
| 1415   | 3           | 0           | 10         | 19.64        | 4.90    | 5.90    | 11.49   | 1.38       | -1.75      | -3.25      | 3.20        | 2.12     |
| 1419   | 3           | 0           | 15         | 19.68        | 12.08   | 20.29   | 11.49   | -0.55      | 8.57       | -7.17      | 2.52        | 2.80     |

\* Indicates model was close to heave stop

TABLE 5.204.2 - STABILITY DATA IN WIND AXES WITHOUT AIR TARES

20 deg Deadrise, L/R = 0.000, Cv = 4

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 1438 | 3           | 10          | 0          | 19.66        | 3.09    | 0.57    | 11.49   | -0.51      | -4.29      | -0.71      | 3.40        | 1.86     |
| 1443 | 3           | 10          | 5          | 19.60        | 2.95    | 2.39    | 11.49   | 0.49       | -7.54      | -2.36      | 3.70        | 1.56     |
| 1447 | 3           | 10          | 10         | 19.69        | 3.35    | 4.33    | 11.49   | 1.81       | -9.64      | -4.72      | 3.83        | 1.43     |
| 1451 | 3           | 10          | 15         | 19.64        | 4.21    | 6.40    | 11.49   | 3.23       | -10.68     | -7.48      | 3.89        | 1.37     |
| 1459 | 3           | 20          | 0          | 19.65        | 3.37    | 1.05    | 11.49   | -0.95      | -1.26      | -0.46      | 3.28        | 1.79     |
| 1463 | 3           | 20          | 5          | 19.63        | 3.05    | 2.60    | 11.49   | -0.17      | -6.26      | -2.44      | 3.78        | 1.29     |
| 1467 | 3           | 20          | 10         | 19.65        | 2.87    | 3.27    | 11.49   | 0.94       | -9.72      | -4.13      | 4.10        | 0.97     |
| 1471 | 3           | 20          | 15         | 19.64        | 2.98    | 3.99    | 11.49   | 2.25       | -11.82     | -5.67      | 4.26        | 0.81     |
| 1543 | 6           | -10         | 0          | 19.65        | 2.08    | -0.13   | 11.49   | 0.58       | -13.78     | 0.55       | 5.10        | 1.32     |
| 1547 | 6           | -10         | 5          | 19.64        | 2.47    | 0.95    | 11.49   | 1.74       | -11.52     | -1.13      | 4.82        | 1.60     |
| 1551 | 6           | -10         | 10         | 19.71        | 3.82    | 4.33    | 11.49   | 2.32       | -9.33      | -6.02      | 4.53        | 1.89     |
| 1555 | 6           | -10         | 15         | 19.67        | 7.08    | 12.12   | 11.49   | 1.32       | -5.21      | -15.44     | 4.04        | 2.38     |
| 1478 | 6           | 0           | 0          | 19.67        | 1.94    | 0.17    | 11.49   | 0.03       | -15.61     | 0.10       | 5.20        | 1.28     |
| 1482 | 6           | 0           | 5          | 19.63        | 2.17    | 1.54    | 11.49   | 1.53       | -15.39     | -2.20      | 5.20        | 1.28     |
| 1486 | 6           | 0           | 10         | 19.62        | 2.68    | 2.88    | 11.49   | 2.99       | -15.04     | -4.40      | 5.17        | 1.31     |
| 1490 | 6           | 0           | 15         | 19.64        | 3.48    | 4.28    | 11.49   | 4.39       | -14.23     | -6.71      | 5.10        | 1.38     |
| 1496 | 6           | 10          | 0          | 19.64        | 1.99    | 0.44    | 11.49   | -0.65      | -14.11     | -0.49      | 5.12        | 1.30     |
| 1500 | 6           | 10          | 5          | 19.66        | 2.07    | 1.48    | 11.49   | 0.70       | -15.07     | -2.22      | 5.21        | 1.21     |
| 1504 | 6           | 10          | 10         | 19.67        | 2.43    | 2.49    | 11.49   | 2.13       | -15.61     | -4.03      | 5.28        | 1.14     |
| 1508 | 6           | 10          | 15         | 19.66        | 3.05    | 3.59    | 11.49   | 3.62       | -15.99     | -6.05      | 5.30        | 1.12     |
| 1524 | 6           | 20          | 0          | 19.64        | 2.72    | 1.51    | 11.49   | -1.04      | -11.45     | -1.63      | 4.89        | 1.34     |
| 1528 | 6           | 20          | 5          | 19.64        | 2.27    | 1.60    | 11.49   | 0.23       | -14.09     | -2.30      | 5.32        | 0.91     |
| 1532 | 6           | 20          | 10         | 19.68        | 2.20    | 1.98    | 11.49   | 1.64       | -15.32     | -3.22      | 5.52        | 0.71     |
| 1536 | 6           | 20          | 15         | 19.64        | 2.38    | 2.26    | 11.49   | 3.16       | -16.01     | -3.95      | 5.62        | 0.61     |

\* Indicates model was close to heave stop

TABLE 5.210.1 - STABILITY DATA IN WIND AXES WITHOUT AIR TARES

20 deg Deadrise, L/R = 0.117, Cv = 0

| RUN | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|-----|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 585 | 0           | -10         | -10        | 0            | 0.02    | 0.10    | 11.49   | -0.25      | -3.64      | -0.02      | 2.36        | 1.73     |
| 568 | 0           | -10         | -8         | 0            | 0.02    | 0.08    | 11.49   | -0.12      | -3.66      | 0.00       | 2.36        | 1.73     |
| 582 | 0           | -10         | -5         | 0            | 0.03    | 0.07    | 11.49   | 0.07       | -3.71      | 0.00       | 2.33        | 1.76     |
| 569 | 0           | -10         | 0          | 0            | 0.03    | 0.11    | 11.49   | 0.41       | -3.69      | 0.00       | 2.37        | 1.72     |
| 574 | 0           | -10         | 5          | 0            | 0.02    | 0.06    | 11.49   | 0.67       | -3.72      | 0.00       | 2.37        | 1.72     |
| 577 | 0           | -10         | 10         | 0            | 0.03    | 0.02    | 11.49   | 0.97       | -3.71      | 0.02       | 2.37        | 1.72     |
| 468 | 0           | 0           | -15        | 0            | 0.04    | 0.11    | 11.49   | -1.01      | -3.76      | -0.01      | 2.19        | 1.96     |
| 464 | 0           | 0           | -10        | 0            | 0.02    | 0.13    | 11.49   | -0.62      | -3.63      | -0.01      | 2.29        | 1.86     |
| 459 | 0           | 0           | -5         | 0            | 0.03    | 0.14    | 11.49   | -0.30      | -3.65      | -0.01      | 2.30        | 1.85     |
| 439 | 0           | 0           | 0          | 0            | 0.01    | 0.09    | 11.49   | 0.04       | -3.65      | 0.01       | 2.33        | 1.82     |
| 446 | 0           | 0           | 5          | 0            | 0.02    | 0.05    | 11.49   | 0.30       | -3.82      | 0.02       | 2.30        | 1.85     |
| 450 | 0           | 0           | 10         | 0            | 0.03    | 0.05    | 11.49   | 0.63       | -3.80      | 0.01       | 2.33        | 1.82     |
| 454 | 0           | 0           | 15         | 0            | 0.05    | 0.04    | 11.49   | 0.98       | -3.90      | 0.03       | 2.29        | 1.86     |
| 534 | 0           | 10          | -10        | 0            | 0.04    | 0.01    | 11.49   | -1.17      | -3.48      | 0.01       | 2.33        | 1.76     |
| 530 | 0           | 10          | -5         | 0            | 0.01    | 0.07    | 11.49   | -0.83      | -3.64      | -0.02      | 2.34        | 1.75     |
| 471 | 0           | 10          | 0          | 0            | 0.05    | 0.11    | 11.49   | -0.45      | -3.79      | 0.00       | 2.30        | 1.79     |
| 517 | 0           | 10          | 0          | 0            | 0.03    | 0.05    | 11.49   | -0.52      | -3.69      | 0.02       | 2.38        | 1.71     |
| 475 | 0           | 10          | 5          | 0            | 0.03    | 0.10    | 11.49   | -0.13      | -3.93      | 0.01       | 2.30        | 1.79     |
| 522 | 0           | 10          | 5          | 0            | 0.02    | 0.07    | 11.49   | -0.15      | -3.86      | 0.03       | 2.34        | 1.75     |
| 525 | 0           | 10          | 10         | 0            | 0.03    | 0.06    | 11.49   | 0.18       | -3.84      | 0.00       | 2.35        | 1.74     |
| 560 | 0           | 20          | -10        | 0            | 0.05    | -0.01   | 11.49   | -1.39      | -3.65      | 0.01       | 2.37        | 1.53     |
| 553 | 0           | 20          | -5         | 0            | 0.03    | 0.03    | 11.49   | -1.00      | -3.83      | 0.01       | 2.38        | 1.52     |
| 555 | 0           | 20          | -5         | 0            | 0.04    | -0.01   | 11.49   | -1.05      | -3.83      | 0.01       | 2.38        | 1.52     |
| 538 | 0           | 20          | 0          | 0            | 0.02    | 0.02    | 11.49   | -0.70      | -3.96      | 0.01       | 2.36        | 1.54     |
| 543 | 0           | 20          | 5          | 0            | 0.02    | 0.06    | 11.49   | -0.32      | -4.05      | 0.00       | 2.39        | 1.51     |
| 548 | 0           | 20          | 10         | 0            | 0.03    | 0.07    | 11.49   | 0.07       | -4.11      | 0.01       | 2.40        | 1.50     |
| 250 | 3           | -10         | -15        | 0            | 0.02    | -0.04   | 11.49   | -1.97      | -8.41      | -0.04      | 2.61        | 2.65     |
| 245 | 3           | -10         | -10        | 0            | -0.00   | 0.02    | 11.49   | -1.22      | -8.74      | -0.03      | 2.57        | 2.69     |
| 241 | 3           | -10         | -5         | 0            | -0.01   | -0.03   | 11.49   | -0.48      | -8.81      | -0.07      | 2.58        | 2.68     |
| 237 | 3           | -10         | 0          | 0            | -0.02   | 0.02    | 11.49   | 0.30       | -8.92      | -0.04      | 2.58        | 2.68     |
| 233 | 3           | -10         | 5          | 0            | 0.00    | 0.02    | 11.49   | 1.07       | -8.83      | -0.03      | 2.59        | 2.67     |
| 229 | 3           | -10         | 10         | 0            | 0.03    | -0.11   | 11.49   | 1.61       | -8.69      | 0.02       | 2.60        | 2.66     |
| 225 | 3           | -10         | 15         | 0            | -0.04   | -0.18   | 11.49   | 2.41       | -8.48      | -0.03      | 2.61        | 2.65     |
| 109 | 3           | 0           | -15        | 0            | -0.01   | 0.02    | 11.49   | -2.40      | -8.72      | -0.04      | 2.52        | 2.80     |
| 104 | 3           | 0           | -10        | 0            | -0.02   | 0.06    | 11.49   | -1.62      | -8.94      | -0.04      | 2.53        | 2.79     |
| 100 | 3           | 0           | -5         | 0            | -0.01   | 0.07    | 11.49   | -0.84      | -9.06      | -0.03      | 2.54        | 2.78     |
| 96  | 3           | 0           | 0          | 0            | 0.01    | -0.03   | 11.49   | -0.13      | -9.09      | -0.05      | 2.53        | 2.79     |
| 90  | 3           | 0           | 5          | 0            | -0.02   | 0.05    | 11.49   | 0.74       | -9.18      | -0.03      | 2.50        | 2.82     |
| 79  | 3           | 0           | 10         | 0            | -0.01   | -0.09   | 11.49   | 1.46       | -9.12      | -0.07      | 2.56        | 2.76     |
| 81  | 3           | 0           | 10         | 0            | -0.02   | -0.23   | 11.49   | 1.35       | -9.10      | -0.12      | 2.56        | 2.76     |
| 87  | 3           | 0           | 10         | 0            | -0.02   | 0.02    | 11.49   | 1.51       | -9.12      | -0.02      | 2.51        | 2.81     |
| 83  | 3           | 0           | 15         | 0            | 0.04    | 0.02    | 11.49   | 2.32       | -9.01      | -0.05      | 2.49        | 2.83     |

\* Indicates model was close to heave stop

TABLE 5.210.2 - STABILITY DATA IN WIND AXES WITHOUT AIR TARES

20 deg Deadrise, L/R = 0.117, Cv = 0

| RUN | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|-----|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 113 | 3           | 10          | -15        | 0            | 0.03    | 0.03    | 11.49   | -2.76      | -8.49      | -0.06      | 2.54        | 2.72     |
| 154 | 3           | 10          | -15        | 0            | 0.09    | -0.05   | 11.49   | -2.64      | -8.16      | -0.02      | 2.66        | 2.60     |
| 159 | 3           | 10          | -10        | 0            | 0.02    | -0.03   | 11.49   | -2.03      | -8.77      | -0.04      | 2.50        | 2.76     |
| 163 | 3           | 10          | -5         | 0            | 0.01    | -0.03   | 11.49   | -1.28      | -8.95      | -0.05      | 2.57        | 2.69     |
| 167 | 3           | 10          | 0          | 0            | 0.01    | -0.12   | 11.49   | -0.55      | -8.90      | -0.06      | 2.57        | 2.69     |
| 171 | 3           | 10          | 5          | 0            | -0.00   | 0.06    | 11.49   | 0.35       | -9.04      | -0.03      | 2.55        | 2.71     |
| 185 | 3           | 10          | 5          | 0            | -0.00   | -0.01   | 11.49   | 0.29       | -8.89      | -0.01      | 2.60        | 2.66     |
| 187 | 3           | 10          | 10         | 0            | -0.03   | -0.04   | 11.49   | 1.09       | -8.98      | -0.03      | 2.60        | 2.66     |
| 191 | 3           | 10          | 15         | 0            | 0.02    | 0.21    | 11.49   | 2.05       | -8.93      | 0.07       | 2.58        | 2.68     |
| 219 | 3           | 20          | -15        | 0            | -0.05   | 0.02    | 11.49   | -2.74      | -8.41      | -0.03      | 2.58        | 2.49     |
| 215 | 3           | 20          | -10        | 0            | -0.01   | 0.05    | 11.49   | -2.04      | -8.71      | -0.03      | 2.58        | 2.49     |
| 211 | 3           | 20          | -5         | 0            | 0.01    | 0.01    | 11.49   | -1.30      | -8.81      | -0.03      | 2.59        | 2.48     |
| 203 | 3           | 20          | 5          | 0            | 0.01    | 0.01    | 11.49   | 0.22       | -8.83      | -0.03      | 2.62        | 2.45     |
| 207 | 3           | 20          | 5          | 0            | -0.01   | 0.04    | 11.49   | 0.26       | -9.00      | -0.03      | 2.58        | 2.49     |
| 199 | 3           | 20          | 10         | 0            | -0.03   | 0.02    | 11.49   | 1.04       | -9.01      | 0.00       | 2.60        | 2.47     |
| 195 | 3           | 20          | 15         | 0            | -0.01   | 0.04    | 11.49   | 1.83       | -8.86      | -0.03      | 2.60        | 2.47     |
| 419 | 6           | -10         | -15        | 0            | -0.04   | 0.03    | 11.49   | -2.80      | -11.44     | -0.06      | 2.90        | 3.52     |
| 415 | 6           | -10         | -10        | 0            | -0.05   | 0.04    | 11.49   | -1.77      | -11.48     | -0.06      | 2.93        | 3.49     |
| 411 | 6           | -10         | -5         | 0            | -0.02   | -0.03   | 11.49   | -0.82      | -11.71     | -0.07      | 2.92        | 3.50     |
| 393 | 6           | -10         | 0          | 0            | -0.03   | 0.01    | 11.49   | 0.23       | -11.59     | -0.05      | 2.97        | 3.45     |
| 397 | 6           | -10         | 5          | 0            | -0.04   | 0.03    | 11.49   | 1.27       | -11.74     | -0.04      | 2.94        | 3.48     |
| 401 | 6           | -10         | 10         | 0            | -0.05   | 0.02    | 11.49   | 2.25       | -11.54     | -0.04      | 2.94        | 3.48     |
| 405 | 6           | -10         | 15         | 0            | -0.04   | 0.00    | 11.49   | 3.23       | -11.31     | -0.04      | 2.95        | 3.47     |
| 295 | 6           | 0           | -15        | 0            | -0.03   | 0.01    | 11.49   | -3.22      | -11.74     | -0.08      | 2.90        | 3.58     |
| 291 | 6           | 0           | -10        | 0            | -0.03   | 0.08    | 11.49   | -2.13      | -11.95     | -0.10      | 2.92        | 3.56     |
| 287 | 6           | 0           | -5         | 0            | -0.03   | 0.04    | 11.49   | -1.11      | -12.11     | -0.04      | 2.92        | 3.56     |
| 267 | 6           | 0           | 0          | 0            | -0.04   | 0.04    | 11.49   | -0.06      | -12.17     | -0.05      | 2.93        | 3.55     |
| 273 | 6           | 0           | 5          | 0            | -0.02   | -0.02   | 11.49   | 0.96       | -12.11     | -0.05      | 2.94        | 3.54     |
| 277 | 6           | 0           | 5          | 0            | -0.06   | 0.06    | 11.49   | 0.99       | -12.06     | -0.03      | 2.96        | 3.52     |
| 282 | 6           | 0           | 10         | 0            | -0.04   | 0.07    | 11.49   | 2.08       | -12.16     | -0.04      | 2.93        | 3.55     |
| 283 | 6           | 0           | 15         | 0            | -0.03   | 0.02    | 11.49   | 3.05       | -11.69     | -0.05      | 2.98        | 3.50     |
| 299 | 6           | 10          | -15        | 0            | -0.02   | -0.01   | 11.49   | -3.42      | -11.46     | -0.08      | 2.93        | 3.49     |
| 304 | 6           | 10          | -10        | 0            | -0.05   | 0.01    | 11.49   | -2.40      | -11.78     | -0.09      | 2.94        | 3.48     |
| 308 | 6           | 10          | -5         | 0            | -0.06   | 0.07    | 11.49   | -1.36      | -12.06     | -0.06      | 2.92        | 3.50     |
| 321 | 6           | 10          | -5         | 0            | -0.06   | 0.07    | 11.49   | -1.33      | -11.92     | -0.07      | 2.92        | 3.50     |
| 324 | 6           | 10          | 0          | 0            | -0.05   | 0.09    | 11.49   | -0.26      | -12.15     | -0.05      | 2.93        | 3.49     |
| 328 | 6           | 10          | 5          | 0            | -0.05   | 0.04    | 11.49   | 0.74       | -12.09     | -0.06      | 2.93        | 3.49     |
| 332 | 6           | 10          | 10         | 0            | -0.05   | 0.08    | 11.49   | 1.82       | -12.11     | -0.05      | 2.92        | 3.50     |
| 336 | 6           | 10          | 15         | 0            | -0.06   | -0.02   | 11.49   | 2.76       | -11.82     | -0.05      | 2.95        | 3.47     |
| 364 | 6           | 20          | -15        | 0            | -0.01   | -0.05   | 11.49   | -3.61      | -11.21     | -0.09      | 2.97        | 3.26     |
| 360 | 6           | 20          | -10        | 0            | -0.02   | 0.03    | 11.49   | -2.57      | -11.49     | -0.06      | 2.98        | 3.25     |
| 356 | 6           | 20          | -5         | 0            | -0.02   | -0.00   | 11.49   | -1.62      | -11.70     | -0.06      | 2.98        | 3.25     |
| 340 | 6           | 20          | 0          | 0            | -0.01   | -0.02   | 11.49   | -0.62      | -11.76     | -0.06      | 3.00        | 3.23     |
| 344 | 6           | 20          | 5          | 0            | -0.05   | 0.01    | 11.49   | 0.45       | -11.81     | -0.03      | 3.01        | 3.22     |
| 348 | 6           | 20          | 10         | 0            | -0.05   | 0.05    | 11.49   | 1.52       | -11.80     | -0.04      | 3.00        | 3.23     |
| 352 | 6           | 20          | 15         | 0            | -0.04   | -0.05   | 11.49   | 2.46       | -11.62     | -0.05      | 3.00        | 3.23     |

\* Indicates model was close to heave stop

TABLE 5.211.1 - STABILITY DATA IN WIND AXES WITHOUT AIR TARES

20 deg Deadrise, L/R = 0.117, Cv = 1.5

| RUN   | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|-------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 586   | 0           | -10         | -10        | 7.42         | 1.86    | -1.25   | 11.49   | 0.98       | 0.69       | -2.87      | 1.88        | 2.21     |
| 581   | 0           | -10         | -5         | 7.42         | 1.39    | -0.24   | 11.49   | 0.70       | 0.20       | -1.34      | 1.97        | 2.12     |
| 570   | 0           | -10         | 0          | 7.44         | 1.21    | 0.44    | 11.49   | 0.61       | 0.19       | -0.24      | 2.01        | 2.08     |
| 573   | 0           | -10         | 5          | 7.44         | 1.45    | 1.03    | 11.49   | 0.33       | 0.46       | 0.71       | 1.92        | 2.17     |
| 578   | 0           | -10         | 10         | 7.41         | 2.09    | 2.44    | 11.49   | -0.28      | 1.30       | 1.76       | 1.68        | 2.41     |
| 469 * | 0           | 0           | -15        | 7.36         | 3.31    | -4.45   | 11.49   | 1.13       | 1.89       | -5.69      | 1.44        | 2.71     |
| 465   | 0           | 0           | -10        | 7.38         | 1.87    | -1.50   | 11.49   | 0.69       | 0.70       | -3.03      | 1.79        | 2.36     |
| 460   | 0           | 0           | -5         | 7.38         | 1.37    | -0.33   | 11.49   | 0.27       | 0.02       | -1.50      | 1.93        | 2.22     |
| 443   | 0           | 0           | 0          | 7.37         | 1.26    | 0.01    | 11.49   | 0.01       | 0.19       | -0.43      | 1.98        | 2.17     |
| 447   | 0           | 0           | 5          | 7.37         | 1.31    | 0.60    | 11.49   | -0.03      | 0.28       | 0.42       | 1.93        | 2.22     |
| 451   | 0           | 0           | 10         | 7.38         | 1.78    | 1.63    | 11.49   | -0.34      | 1.09       | 1.43       | 1.80        | 2.35     |
| 455 * | 0           | 0           | 15         | 7.37         | 3.13    | 4.19    | 11.49   | -0.96      | 2.37       | 2.96       | 1.43        | 2.72     |
| 535   | 0           | 10          | -10        | 7.42         | 2.03    | -2.07   | 11.49   | 0.20       | 0.42       | -3.50      | 1.75        | 2.34     |
| 531   | 0           | 10          | -5         | 7.43         | 1.40    | -0.66   | 11.49   | -0.22      | 0.06       | -1.81      | 1.94        | 2.15     |
| 472   | 0           | 10          | 0          | 7.38         | 1.23    | 0.12    | 11.49   | -0.30      | -0.15      | -0.68      | 1.98        | 2.11     |
| 518   | 0           | 10          | 0          | 7.36         | 1.19    | -0.04   | 11.49   | -0.45      | -0.04      | -0.67      | 2.04        | 2.05     |
| 476   | 0           | 10          | 5          | 7.59         | 1.34    | 0.69    | 11.49   | -0.36      | 0.13       | 0.38       | 1.96        | 2.13     |
| 523   | 0           | 10          | 5          | 7.43         | 1.22    | 0.56    | 11.49   | -0.37      | 0.10       | 0.25       | 2.00        | 2.09     |
| 526   | 0           | 10          | 10         | 7.42         | 1.65    | 1.41    | 11.49   | -0.59      | 0.79       | 1.17       | 1.91        | 2.18     |
| 561   | 0           | 20          | -10        | 7.45         | 2.22    | -2.18   | 11.49   | 0.17       | 0.25       | -3.51      | 1.72        | 2.18     |
| 556   | 0           | 20          | -5         | 7.30         | 1.43    | -0.62   | 11.49   | -0.28      | -0.26      | -1.74      | 1.98        | 1.92     |
| 539   | 0           | 20          | 0          | 7.42         | 1.25    | 0.11    | 11.49   | -0.53      | -0.17      | -0.82      | 2.02        | 1.88     |
| 544   | 0           | 20          | 5          | 7.40         | 1.23    | 0.73    | 11.49   | -0.54      | -0.01      | -0.07      | 2.03        | 1.87     |
| 549   | 0           | 20          | 10         | 7.39         | 1.66    | 1.72    | 11.49   | -0.78      | 0.87       | 0.99       | 1.91        | 1.99     |
| 251   | 3           | -10         | -15        | 7.32         | 2.19    | -2.68   | 11.49   | -0.61      | -2.67      | -0.38      | 2.27        | 2.99     |
| 246   | 3           | -10         | -10        | 7.34         | 1.58    | -1.27   | 11.49   | -0.43      | -4.21      | -0.30      | 2.37        | 2.89     |
| 242   | 3           | -10         | -5         | 7.31         | 1.25    | -0.17   | 11.49   | 0.04       | -4.94      | -0.35      | 2.43        | 2.83     |
| 238   | 3           | -10         | 0          | 7.32         | 1.16    | 0.71    | 11.49   | 0.55       | -5.10      | -0.36      | 2.44        | 2.82     |
| 234   | 3           | -10         | 5          | 7.29         | 1.43    | 1.46    | 11.49   | 0.92       | -4.60      | -0.43      | 2.37        | 2.89     |
| 230   | 3           | -10         | 10         | 7.31         | 2.01    | 2.54    | 11.49   | 0.76       | -3.70      | -0.74      | 2.23        | 3.03     |
| 226   | 3           | -10         | 15         | 7.34         | 3.33    | 5.36    | 11.49   | 0.15       | -2.05      | -1.58      | 1.89        | 3.37     |
| 108   | 3           | 0           | -15        | 7.33         | 2.59    | -3.37   | 11.49   | -1.19      | -3.36      | -0.70      | 2.12        | 3.20     |
| 110   | 3           | 0           | -15        | 7.25         | 2.51    | -3.23   | 11.49   | -1.13      | -3.45      | -0.69      | 2.13        | 3.19     |
| 105   | 3           | 0           | -10        | 7.33         | 1.64    | -1.30   | 11.49   | -1.07      | -4.75      | -0.53      | 2.33        | 2.99     |
| 101   | 3           | 0           | -5         | 7.33         | 1.30    | -0.36   | 11.49   | -0.64      | -5.21      | -0.43      | 2.42        | 2.90     |
| 97    | 3           | 0           | 0          | 7.29         | 1.20    | 0.26    | 11.49   | -0.08      | -5.29      | -0.38      | 2.42        | 2.90     |
| 91    | 3           | 0           | 5          | 7.20         | 1.31    | 1.01    | 11.49   | 0.49       | -5.11      | -0.46      | 2.34        | 2.98     |
| 92    | 3           | 0           | 5          | 7.33         | 1.33    | 0.99    | 11.49   | 0.44       | -5.05      | -0.45      | 2.39        | 2.93     |
| 88    | 3           | 0           | 10         | 7.33         | 1.77    | 2.05    | 11.49   | 0.77       | -4.31      | -0.69      | 2.23        | 3.09     |
| 86    | 3           | 0           | 15         | 7.32         | 2.84    | 4.25    | 11.49   | 0.65       | -2.88      | -1.27      | 2.00        | 3.32     |

\* Indicates model was close to heave stop

TABLE 5.211.2 - STABILITY DATA IN WIND AXES WITHOUT AIR TARES

20 deg Deadrise, L/R = 0.117, Cv = 1.5

| RUN | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|-----|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 114 | 3           | 10          | -15        | 7.29         | 2.89    | -3.87   | 11.49   | -1.29      | -3.26      | -0.86      | 2.00        | 3.26     |
| 160 | 3           | 10          | -10        | 7.35         | 1.81    | -1.42   | 11.49   | -1.29      | -4.52      | -0.44      | 2.25        | 3.01     |
| 164 | 3           | 10          | -5         | 7.34         | 1.42    | -0.43   | 11.49   | -1.02      | -5.17      | -0.42      | 2.41        | 2.85     |
| 168 | 3           | 10          | 0          | 7.34         | 1.27    | 0.41    | 11.49   | -0.42      | -5.29      | -0.36      | 2.45        | 2.81     |
| 172 | 3           | 10          | 5          | 7.32         | 1.32    | 0.98    | 11.49   | 0.00       | -5.21      | -0.56      | 2.40        | 2.86     |
| 188 | 3           | 10          | 10         | 7.34         | 1.62    | 2.00    | 11.49   | 0.49       | -4.23      | -0.85      | 2.37        | 2.89     |
| 192 | 3           | 10          | 15         | 7.34         | 2.48    | 3.69    | 11.49   | 0.66       | -2.70      | -1.13      | 2.20        | 3.06     |
| 220 | 3           | 20          | -15        | 7.34         | 2.64    | -3.57   | 11.49   | -1.05      | -3.44      | -0.62      | 2.07        | 3.00     |
| 216 | 3           | 20          | -10        | 7.35         | 1.69    | -1.32   | 11.49   | -1.12      | -4.51      | -0.48      | 2.30        | 2.77     |
| 212 | 3           | 20          | -5         | 7.33         | 1.31    | -0.31   | 11.49   | -0.92      | -5.06      | -0.40      | 2.43        | 2.64     |
| 204 | 3           | 20          | 5          | 7.35         | 1.24    | 1.05    | 11.49   | -0.07      | -5.06      | -0.63      | 2.49        | 2.58     |
| 208 | 3           | 20          | 5          | 7.35         | 1.12    | 0.22    | 11.49   | -0.06      | -5.32      | -0.47      | 2.47        | 2.60     |
| 200 | 3           | 20          | 10         | 7.35         | 1.63    | 2.10    | 11.49   | 0.41       | -4.25      | -0.96      | 2.37        | 2.70     |
| 196 | 3           | 20          | 15         | 7.34         | 2.38    | 3.41    | 11.49   | 0.52       | -2.79      | -1.23      | 2.24        | 2.83     |
| 420 | 6           | -10         | -15        | 7.36         | 2.16    | -2.44   | 11.49   | -1.67      | -7.32      | 2.18       | 2.91        | 3.51     |
| 416 | 6           | -10         | -10        | 7.38         | 1.74    | -1.58   | 11.49   | -1.09      | -8.01      | 1.43       | 2.97        | 3.45     |
| 412 | 6           | -10         | -5         | 7.38         | 1.44    | -0.69   | 11.49   | -0.51      | -8.49      | 0.39       | 3.00        | 3.42     |
| 409 | 6           | -10         | -5         | 7.43         | 1.45    | -0.60   | 11.49   | -0.48      | -8.45      | 0.40       | 3.01        | 3.41     |
| 394 | 6           | -10         | 0          | 7.36         | 1.43    | 0.35    | 11.49   | 0.26       | -8.58      | -0.52      | 2.99        | 3.43     |
| 398 | 6           | -10         | 5          | 7.38         | 1.65    | 1.39    | 11.49   | 0.94       | -8.28      | -1.47      | 2.90        | 3.52     |
| 402 | 6           | -10         | 10         | 7.37         | 2.13    | 2.82    | 11.49   | 1.37       | -7.59      | -2.79      | 2.74        | 3.68     |
| 406 | 6           | -10         | 15         | 7.37         | 3.16    | 5.07    | 11.49   | 1.38       | -6.49      | -4.84      | 2.56        | 3.86     |
| 296 | 6           | 0           | -15        | 7.34         | 2.19    | -2.32   | 11.49   | -2.05      | -7.72      | 1.98       | 2.87        | 3.61     |
| 292 | 6           | 0           | -10        | 7.33         | 1.74    | -1.19   | 11.49   | -1.53      | -8.47      | 1.02       | 2.97        | 3.51     |
| 288 | 6           | 0           | -5         | 7.35         | 1.48    | -0.23   | 11.49   | -0.74      | -8.95      | 0.29       | 3.02        | 3.46     |
| 268 | 6           | 0           | 0          | 7.34         | 1.33    | 0.48    | 11.49   | -0.06      | -9.04      | -0.55      | 3.03        | 3.45     |
| 274 | 6           | 0           | 5          | 7.32         | 1.62    | 1.37    | 11.49   | 0.73       | -8.71      | -1.38      | 2.98        | 3.50     |
| 278 | 6           | 0           | 10         | 7.35         | 1.94    | 2.48    | 11.49   | 1.42       | -8.01      | -2.32      | 2.94        | 3.54     |
| 284 | 6           | 0           | 15         | 7.34         | 2.83    | 4.14    | 11.49   | 1.69       | -7.05      | -3.90      | 2.76        | 3.72     |
| 300 | 6           | 10          | -15        | 7.35         | 2.43    | -2.74   | 11.49   | -2.15      | -7.53      | 2.28       | 2.79        | 3.63     |
| 305 | 6           | 10          | -10        | 7.33         | 1.76    | -1.15   | 11.49   | -1.80      | -8.39      | 0.99       | 2.94        | 3.48     |
| 309 | 6           | 10          | -5         | 7.33         | 1.54    | -0.23   | 11.49   | -1.20      | -8.84      | 0.16       | 2.99        | 3.43     |
| 325 | 6           | 10          | 0          | 7.34         | 1.42    | 0.79    | 11.49   | -0.34      | -9.06      | -0.66      | 3.06        | 3.36     |
| 329 | 6           | 10          | 5          | 7.28         | 1.56    | 1.83    | 11.49   | 0.41       | -8.74      | -1.70      | 3.00        | 3.42     |
| 333 | 6           | 10          | 10         | 7.35         | 1.95    | 2.83    | 11.49   | 1.14       | -8.07      | -2.63      | 2.95        | 3.47     |
| 337 | 6           | 10          | 15         | 7.35         | 2.59    | 3.90    | 11.49   | 1.59       | -7.19      | -3.72      | 2.89        | 3.53     |
| 365 | 6           | 20          | -15        | 7.33         | 2.82    | -3.82   | 11.49   | -2.06      | -7.39      | 2.93       | 2.72        | 3.51     |
| 361 | 6           | 20          | -10        | 7.33         | 1.96    | -1.59   | 11.49   | -1.87      | -8.20      | 1.34       | 2.89        | 3.34     |
| 357 | 6           | 20          | -5         | 7.34         | 1.64    | -0.28   | 11.49   | -1.37      | -8.67      | 0.34       | 3.00        | 3.23     |
| 341 | 6           | 20          | 0          | 7.35         | 1.59    | 0.91    | 11.49   | -0.71      | -8.73      | -0.70      | 3.06        | 3.17     |
| 345 | 6           | 20          | 5          | 7.34         | 1.73    | 2.02    | 11.49   | -0.02      | -8.63      | -1.77      | 3.10        | 3.13     |
| 349 | 6           | 20          | 10         | 7.34         | 2.11    | 3.26    | 11.49   | 0.65       | -7.93      | -2.99      | 3.05        | 3.18     |
| 353 | 6           | 20          | 15         | 7.31         | 2.57    | 3.88    | 11.49   | 1.25       | -7.41      | -3.64      | 3.09        | 3.14     |

\* Indicates model was close to heave stop

TABLE 5.213.1 - STABILITY DATA IN WIND AXES WITHOUT AIR TARES

20 deg Deadrise, L/R = 0.117, Cv = 3

| RUN   | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|-------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 587   | 0           | -10         | -10        | 14.75        | 6.47    | -6.85   | 11.49   | 2.31       | 8.89       | -9.16      | 1.99        | 2.10     |
| 583   | 0           | -10         | -5         | 14.74        | 4.08    | -2.26   | 11.49   | 1.07       | 5.71       | -3.69      | 2.16        | 1.93     |
| 571   | 0           | -10         | 0          | 14.71        | 3.52    | 0.46    | 11.49   | 0.45       | 2.91       | -0.82      | 2.20        | 1.89     |
| 575   | 0           | -10         | 5          | 14.74        | 4.89    | 4.53    | 11.49   | -0.45      | 4.26       | 0.18       | 1.86        | 2.23     |
| 579 * | 0           | -10         | 10         | 14.74        | 8.41    | 13.58   | 11.49   | -2.53      | 7.31       | 2.56       | 1.43        | 2.66     |
| 466 * | 0           | 0           | -10        | 14.74        | 7.98    | -10.47  | 11.49   | 2.22       | 5.04       | -10.58     | 1.44        | 2.71     |
| 461   | 0           | 0           | -5         | 14.77        | 4.32    | -2.67   | 11.49   | 0.67       | 4.47       | -4.90      | 2.13        | 2.02     |
| 444   | 0           | 0           | 0          | 14.81        | 3.58    | 0.05    | 11.49   | 0.15       | 4.60       | -1.64      | 2.16        | 1.99     |
| 448   | 0           | 0           | 5          | 14.81        | 4.33    | 2.70    | 11.49   | -0.47      | 5.89       | 0.59       | 2.02        | 2.13     |
| 452 * | 0           | 0           | 10         | 14.81        | 7.79    | 10.94   | 11.49   | -2.24      | 9.67       | 0.07       | 1.43        | 2.72     |
| 456 * | 0           | 0           | 15         | 14.77        | 11.86   | 20.39   | 11.49   | -3.60      | 11.63      | 2.14       | 1.43        | 2.72     |
| 536   | 0           | 10          | -10        | 14.71        | 7.75    | -11.72  | 11.49   | 1.33       | 1.97       | -12.58     | 1.60        | 2.49     |
| 532   | 0           | 10          | -5         | 14.70        | 4.33    | -3.41   | 11.49   | 0.18       | 1.31       | -5.07      | 2.08        | 2.01     |
| 473   | 0           | 10          | 0          | 14.77        | 3.58    | -0.71   | 11.49   | -0.65      | 2.92       | -2.71      | 2.15        | 1.94     |
| 478   | 0           | 10          | 5          | 14.64        | 3.94    | 2.43    | 11.49   | -0.40      | 5.78       | 0.28       | 2.15        | 1.94     |
| 527   | 0           | 10          | 10         | 14.71        | 5.93    | 6.95    | 11.49   | -1.50      | 9.41       | 2.45       | 1.97        | 2.12     |
| 528   | 0           | 10          | 10         | 14.71        | 5.96    | 6.92    | 11.49   | -1.53      | 9.46       | 2.43       | 1.97        | 2.12     |
| 562 * | 0           | 20          | -10        | 14.72        | 8.92    | -11.81  | 11.49   | 3.95       | 13.03      | -10.56     | 1.49        | 2.41     |
| 567   | 0           | 20          | -8         | 14.74        | 6.25    | -8.60   | 11.49   | 1.45       | 3.17       | -8.86      | 1.85        | 2.05     |
| 557   | 0           | 20          | -5         | 14.61        | 4.29    | -3.53   | 11.49   | 0.24       | 1.27       | -4.29      | 2.13        | 1.77     |
| 558   | 0           | 20          | -5         | 14.71        | 4.36    | -3.75   | 11.49   | 0.13       | 1.34       | -4.43      | 2.13        | 1.77     |
| 540   | 0           | 20          | 0          | 14.70        | 3.38    | -0.11   | 11.49   | -0.22      | 1.12       | -2.16      | 2.25        | 1.65     |
| 546   | 0           | 20          | 5          | 14.68        | 3.53    | 2.34    | 11.49   | -0.58      | 4.44       | -0.78      | 2.20        | 1.70     |
| 550   | 0           | 20          | 10         | 14.68        | 4.21    | 4.91    | 11.49   | -1.04      | 6.09       | 0.40       | 2.45        | 1.45     |
| 252   | 3           | -10         | -15        | 14.74        | 3.20    | -4.58   | 11.49   | -1.48      | -4.64      | 2.32       | 3.25        | 2.01     |
| 247   | 3           | -10         | -10        | 14.74        | 2.59    | -2.69   | 11.49   | -0.56      | -3.79      | 1.10       | 3.14        | 2.12     |
| 243   | 3           | -10         | -5         | 14.72        | 2.23    | -1.07   | 11.49   | 0.19       | -2.83      | 0.38       | 3.01        | 2.25     |
| 239   | 3           | -10         | 0          | 14.74        | 2.36    | 1.06    | 11.49   | 0.63       | -2.87      | -0.62      | 2.91        | 2.35     |
| 235   | 3           | -10         | 5          | 14.74        | 3.28    | 4.05    | 11.49   | 0.72       | -1.91      | -2.31      | 2.75        | 2.51     |
| 231   | 3           | -10         | 10         | 14.72        | 6.02    | 11.34   | 11.49   | -0.23      | 1.74       | -5.69      | 2.33        | 2.93     |
| 227 * | 3           | -10         | 15         | 14.73        | 13.76   | 29.04   | 11.49   | -4.03      | 9.28       | -6.94      | 1.45        | 3.81     |
| 111   | 3           | 0           | -15        | 14.74        | 6.56    | -10.04  | 11.49   | -0.21      | 2.21       | 0.11       | 2.50        | 2.82     |
| 106   | 3           | 0           | -10        | 14.78        | 3.29    | -3.13   | 11.49   | -1.01      | -2.47      | -0.20      | 2.83        | 2.49     |
| 102   | 3           | 0           | -5         | 14.78        | 2.45    | -0.78   | 11.49   | -0.56      | -3.71      | -0.51      | 2.89        | 2.43     |
| 98    | 3           | 0           | 0          | 14.78        | 2.09    | 0.89    | 11.49   | 0.10       | -4.00      | -0.74      | 2.93        | 2.39     |
| 94    | 3           | 0           | 5          | 14.78        | 2.76    | 3.32    | 11.49   | 0.66       | -2.99      | -1.70      | 2.85        | 2.47     |
| 89    | 3           | 0           | 10         | 14.78        | 4.49    | 7.29    | 11.49   | 0.67       | -0.13      | -3.51      | 2.59        | 2.73     |
| 85    | 3           | 0           | 15         | 14.78        | 9.63    | 17.98   | 11.49   | -1.35      | 5.88       | -7.07      | 2.10        | 3.22     |

\* Indicates model was close to heave stop

TABLE 5.213.2 - STABILITY DATA IN WIND AXES WITHOUT AIR TARES

20 deg Deadrise, L/R = 0.117, Cv = 3

| RUN | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|-----|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 115 | 3           | 10          | -15        | 14.74        | 10.28   | -18.66  | 11.49   | 1.32       | 5.26       | -0.84      | 1.95        | 3.31     |
| 155 | 3           | 10          | -15        | 14.67        | 9.65    | -17.02  | 11.49   | 0.78       | 4.93       | 0.13       | 2.12        | 3.14     |
| 156 | 3           | 10          | -15        | 14.77        | 9.71    | -17.21  | 11.49   | 1.09       | 4.89       | -0.04      | 2.10        | 3.16     |
| 161 | 3           | 10          | -10        | 14.81        | 4.13    | -4.66   | 11.49   | -0.92      | -1.30      | 0.72       | 2.63        | 2.63     |
| 165 | 3           | 10          | -5         | 14.81        | 2.60    | -0.71   | 11.49   | -1.03      | -3.48      | -0.51      | 2.93        | 2.33     |
| 169 | 3           | 10          | 0          | 14.81        | 2.24    | 1.25    | 11.49   | -0.40      | -4.07      | -1.27      | 3.00        | 2.26     |
| 173 | 3           | 10          | 5          | 14.81        | 2.23    | 2.85    | 11.49   | 0.41       | -4.87      | -1.83      | 3.13        | 2.13     |
| 189 | 3           | 10          | 10         | 14.77        | 2.80    | 4.63    | 11.49   | 1.19       | -5.22      | -3.04      | 3.20        | 2.06     |
| 193 | 3           | 10          | 15         | 14.78        | 3.96    | 6.96    | 11.49   | 1.90       | -4.59      | -4.68      | 3.18        | 2.08     |
| 221 | 3           | 20          | -15        | 14.74        | 8.72    | -15.42  | 11.49   | 0.60       | 2.42       | 0.06       | 2.18        | 2.89     |
| 217 | 3           | 20          | -10        | 14.73        | 4.10    | -4.81   | 11.49   | -0.65      | -1.15      | 0.97       | 2.68        | 2.39     |
| 213 | 3           | 20          | -5         | 14.74        | 2.53    | -0.51   | 11.49   | -0.88      | -3.43      | -0.36      | 2.93        | 2.14     |
| 209 | 3           | 20          | 0          | 14.74        | 2.21    | 1.32    | 11.49   | -0.52      | -3.96      | -1.49      | 3.02        | 2.05     |
| 205 | 3           | 20          | 5          | 14.75        | 2.21    | 2.96    | 11.49   | 0.29       | -5.15      | -2.23      | 3.20        | 1.87     |
| 201 | 3           | 20          | 10         | 14.75        | 2.72    | 4.73    | 11.49   | 1.20       | -6.14      | -3.60      | 3.29        | 1.78     |
| 197 | 3           | 20          | 15         | 14.74        | 3.59    | 6.61    | 11.49   | 2.35       | -7.16      | -5.60      | 3.38        | 1.69     |
| 421 | 6           | -10         | -15        | 14.82        | 2.41    | -2.97   | 11.49   | -3.18      | -12.63     | 4.43       | 4.55        | 1.87     |
| 417 | 6           | -10         | -10        | 14.82        | 1.94    | -2.03   | 11.49   | -1.82      | -11.97     | 2.98       | 4.41        | 2.01     |
| 413 | 6           | -10         | -5         | 14.80        | 1.64    | -1.12   | 11.49   | -0.61      | -10.56     | 1.54       | 4.25        | 2.17     |
| 395 | 6           | -10         | 0          | 14.81        | 1.96    | 0.09    | 11.49   | 0.51       | -8.66      | 0.18       | 3.96        | 2.46     |
| 399 | 6           | -10         | 5          | 14.79        | 2.58    | 3.06    | 11.49   | 1.05       | -7.71      | -3.49      | 3.73        | 2.69     |
| 403 | 6           | -10         | 10         | 14.78        | 4.12    | 7.79    | 11.49   | 0.89       | -5.64      | -8.45      | 3.36        | 3.06     |
| 407 | 6           | -10         | 15         | 14.81        | 7.62    | 16.16   | 11.49   | -0.62      | -1.76      | -15.77     | 2.89        | 3.53     |
| 297 | 6           | 0           | -15        | 14.74        | 2.80    | -2.88   | 11.49   | -2.98      | -9.46      | 3.34       | 4.14        | 2.34     |
| 293 | 6           | 0           | -10        | 14.74        | 2.06    | -1.41   | 11.49   | -2.11      | -10.54     | 1.76       | 4.26        | 2.22     |
| 289 | 6           | 0           | -5         | 14.72        | 1.61    | -0.33   | 11.49   | -1.08      | -10.93     | 0.47       | 4.30        | 2.18     |
| 269 | 6           | 0           | 0          | 14.72        | 1.62    | 0.92    | 11.49   | 0.13       | -10.95     | -0.75      | 4.28        | 2.20     |
| 275 | 6           | 0           | 5          | 14.70        | 1.95    | 2.10    | 11.49   | 1.22       | -10.39     | -2.05      | 4.22        | 2.26     |
| 279 | 6           | 0           | 10         | 14.71        | 2.84    | 4.09    | 11.49   | 2.01       | -9.45      | -4.49      | 4.05        | 2.43     |
| 280 | 6           | 0           | 10         | 14.70        | 2.80    | 4.00    | 11.49   | 1.97       | -9.40      | -4.46      | 4.06        | 2.42     |
| 285 | 6           | 0           | 15         | 14.72        | 4.56    | 7.75    | 11.49   | 2.12       | -7.12      | -8.66      | 3.77        | 2.71     |
| 302 | 6           | 10          | -15        | 14.72        | 4.23    | -5.86   | 11.49   | -1.89      | -5.93      | 6.00       | 3.50        | 2.92     |
| 306 | 6           | 10          | -10        | 14.74        | 2.63    | -1.60   | 11.49   | -2.05      | -8.09      | 1.77       | 3.83        | 2.59     |
| 310 | 6           | 10          | -5         | 14.74        | 1.90    | 0.49    | 11.49   | -1.37      | -9.57      | -0.51      | 4.09        | 2.33     |
| 326 | 6           | 10          | 0          | 14.71        | 1.58    | 1.57    | 11.49   | -0.47      | -11.39     | -1.92      | 4.34        | 2.08     |
| 330 | 6           | 10          | 5          | 14.67        | 1.70    | 2.63    | 11.49   | 0.74       | -12.75     | -3.54      | 4.52        | 1.90     |
| 334 | 6           | 10          | 10         | 14.67        | 2.12    | 3.63    | 11.49   | 2.10       | -13.66     | -5.10      | 4.65        | 1.77     |
| 338 | 6           | 10          | 15         | 14.70        | 2.77    | 4.55    | 11.49   | 3.38       | -14.03     | -6.82      | 4.72        | 1.70     |
| 366 | 6           | 20          | -15        | 14.74        | 5.88    | -10.31  | 11.49   | -0.84      | -5.14      | 9.25       | 3.22        | 3.01     |
| 362 | 6           | 20          | -10        | 14.74        | 3.29    | -3.33   | 11.49   | -1.73      | -7.06      | 3.53       | 3.61        | 2.62     |
| 358 | 6           | 20          | -5         | 14.74        | 2.46    | 0.32    | 11.49   | -1.62      | -8.27      | -0.12      | 3.85        | 2.38     |
| 342 | 6           | 20          | 0          | 14.71        | 1.91    | 2.37    | 11.49   | -0.89      | -10.11     | -2.65      | 4.22        | 2.01     |
| 346 | 6           | 20          | 5          | 14.74        | 2.01    | 2.90    | 11.49   | 0.11       | -12.16     | -3.96      | 4.62        | 1.61     |
| 350 | 6           | 20          | 10         | 14.75        | 2.22    | 3.38    | 11.49   | 1.35       | -13.66     | -5.00      | 4.86        | 1.37     |
| 354 | 6           | 20          | 15         | 14.74        | 2.46    | 3.54    | 11.49   | 2.56       | -14.33     | -5.74      | 5.04        | 1.19     |

\* Indicates model was close to heave stop



TABLE 5.214.1 - STABILITY DATA IN WIND AXES WITHOUT AIR TARES

20 deg Deadrise, L/R = 0.117, Cv = 4

| RUN   | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|-------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 588   | 0           | -10         | -10        | 19.67        | 10.62   | -10.81  | 11.49   | 3.94       | 17.56      | -15.82     | 2.06        | 2.03     |
| 584   | 0           | -10         | -5         | 19.62        | 6.38    | -3.17   | 11.49   | 1.40       | 12.01      | -5.63      | 2.32        | 1.77     |
| 572   | 0           | -10         | 0          | 19.63        | 5.86    | 0.21    | 11.49   | 0.25       | 9.16       | -0.77      | 2.18        | 1.91     |
| 576 * | 0           | -10         | 5          | 19.63        | 9.97    | 8.92    | 11.49   | -1.51      | 11.03      | -1.35      | 1.44        | 2.65     |
| 580 * | 0           | -10         | 10         | 19.62        | 14.02   | 24.16   | 11.49   | -4.77      | 13.48      | 4.18       | 1.43        | 2.66     |
| 467 * | 0           | 0           | -10        | 19.68        | 13.66   | -17.77  | 11.49   | 3.53       | 11.00      | -19.60     | 1.43        | 2.72     |
| 462   | 0           | 0           | -5         | 19.70        | 7.29    | -4.47   | 11.49   | 1.47       | 10.41      | -8.95      | 2.13        | 2.02     |
| 445   | 0           | 0           | 0          | 19.67        | 5.51    | -0.28   | 11.49   | 0.06       | 10.00      | -2.14      | 2.26        | 1.89     |
| 449   | 0           | 0           | 5          | 19.68        | 7.13    | 4.33    | 11.49   | -1.03      | 12.08      | 1.23       | 2.08        | 2.07     |
| 453 * | 0           | 0           | 10         | 19.69        | 13.02   | 17.98   | 11.49   | -4.06      | 17.75      | 1.50       | 1.43        | 2.72     |
| 457 * | 0           | 0           | 15         | 19.67        | 20.59   | 35.15   | 11.49   | -7.20      | 20.84      | 4.34       | 1.42        | 2.73     |
| 537 * | 0           | 10          | -10        | 19.61        | 14.23   | -22.23  | 11.49   | 3.90       | 5.65       | -26.36     | 1.43        | 2.66     |
| 533   | 0           | 10          | -5         | 19.62        | 8.28    | -6.56   | 11.49   | 0.93       | 5.56       | -10.43     | 1.87        | 2.22     |
| 474   | 0           | 10          | 0          | 19.68        | 5.92    | -0.32   | 11.49   | 0.43       | 8.97       | -4.14      | 2.16        | 1.93     |
| 519   | 0           | 10          | 0          | 19.81        | 5.92    | -0.52   | 11.49   | 0.23       | 9.26       | -4.35      | 2.16        | 1.93     |
| 520   | 0           | 10          | 0          | 19.45        | 5.78    | -0.67   | 11.49   | 0.22       | 8.83       | -4.23      | 2.17        | 1.92     |
| 479   | 0           | 10          | 5          | 19.88        | 5.74    | 2.99    | 11.49   | -0.60      | 9.83       | -0.31      | 2.46        | 1.63     |
| 521   | 0           | 10          | 5          | 19.76        | 5.66    | 2.76    | 11.49   | -0.56      | 9.91       | -0.32      | 2.43        | 1.66     |
| 529   | 0           | 10          | 10         | 19.75        | 7.63    | 8.41    | 11.49   | -1.53      | 12.89      | 2.57       | 2.42        | 1.67     |
| 563   | 0           | 20          | -10        | 19.62        | 14.30   | -17.66  | 11.49   | 6.79       | 24.17      | -18.63     | 1.61        | 2.29     |
| 566 * | 0           | 20          | -8         | 19.62        | 13.10   | -19.58  | 11.49   | 3.42       | 6.97       | -25.67     | 1.44        | 2.46     |
| 554   | 0           | 20          | -5         | 19.45        | 7.94    | -6.36   | 11.49   | 1.18       | 4.45       | -9.74      | 2.01        | 1.89     |
| 559   | 0           | 20          | -5         | 19.74        | 8.43    | -7.88   | 11.49   | 0.58       | 4.73       | -11.04     | 1.96        | 1.94     |
| 541   | 0           | 20          | 0          | 19.56        | 6.41    | -0.14   | 11.49   | -0.04      | 4.27       | -3.97      | 2.12        | 1.78     |
| 547   | 0           | 20          | 5          | 19.55        | 5.24    | 2.22    | 11.49   | -0.79      | 8.52       | -1.47      | 2.51        | 1.39     |
| 564   | 0           | 20          | 5          | 19.62        | 5.38    | 2.46    | 11.49   | -0.80      | 8.81       | -1.31      | 2.49        | 1.41     |
| 551   | 0           | 20          | 10         | 19.57        | 5.26    | 5.29    | 11.49   | -1.43      | 5.94       | -1.41      | 2.93        | 0.97     |
| 552   | 0           | 20          | 10         | 19.50        | 5.25    | 5.30    | 11.49   | -1.45      | 5.94       | -1.42      | 2.93        | 0.97     |
| 565   | 0           | 20          | 10         | 19.62        | 5.23    | 4.93    | 11.49   | -1.48      | 6.37       | -1.23      | 2.90        | 1.00     |
| 253   | 3           | -10         | -15        | 19.68        | 3.51    | -5.01   | 11.49   | -2.68      | -9.32      | 5.25       | 3.73        | 1.53     |
| 248   | 3           | -10         | -10        | 19.64        | 2.85    | -2.99   | 11.49   | -1.29      | -7.73      | 2.97       | 3.62        | 1.64     |
| 249   | 3           | -10         | -10        | 19.68        | 2.75    | -2.91   | 11.49   | -1.30      | -7.75      | 2.93       | 3.64        | 1.62     |
| 244   | 3           | -10         | -5         | 19.68        | 2.75    | -1.12   | 11.49   | -0.17      | -4.74      | 0.90       | 3.41        | 1.85     |
| 240   | 3           | -10         | 0          | 19.67        | 3.17    | 1.47    | 11.49   | 0.77       | -1.61      | -0.80      | 3.17        | 2.09     |
| 236   | 3           | -10         | 5          | 19.68        | 4.71    | 6.24    | 11.49   | 0.60       | 0.47       | -4.38      | 2.96        | 2.30     |
| 232   | 3           | -10         | 10         | 19.67        | 10.38   | 20.66   | 11.49   | -1.74      | 9.36       | -9.80      | 2.24        | 3.02     |
| 228 * | 3           | -10         | 15         | 19.69        | 22.93   | 50.70   | 11.49   | -8.09      | 20.96      | -11.96     | 1.44        | 3.82     |
| 254 * | 3           | -10         | 15         | 19.63        | 22.85   | 50.32   | 11.49   | -8.41      | 20.83      | -11.62     | 1.45        | 3.81     |
| 112   | 3           | 0           | -15        | 19.69        | 8.70    | -13.48  | 11.49   | -0.31      | 4.33       | 1.94       | 2.76        | 2.56     |
| 107   | 3           | 0           | -10        | 19.75        | 3.58    | -3.11   | 11.49   | -1.43      | -3.86      | 0.92       | 3.27        | 2.05     |
| 103   | 3           | 0           | -5         | 19.73        | 2.98    | -0.69   | 11.49   | -0.67      | -5.02      | 0.04       | 3.31        | 2.01     |
| 99    | 3           | 0           | 0          | 19.74        | 2.88    | 1.42    | 11.49   | 0.24       | -4.85      | -0.72      | 3.29        | 2.03     |
| 95    | 3           | 0           | 5          | 19.70        | 3.60    | 4.37    | 11.49   | 1.02       | -3.52      | -2.52      | 3.20        | 2.12     |
| 82    | 3           | 0           | 10         | 19.69        | 5.96    | 9.70    | 11.49   | 0.94       | 0.86       | -5.58      | 2.99        | 2.33     |
| 84    | 3           | 0           | 15         | 19.63        | 14.86   | 28.07   | 11.49   | -2.72      | 13.29      | -10.80     | 2.20        | 3.12     |

\* Indicates model was close to heave stop

TABLE 5.214.2 - STABILITY DATA IN WIND AXES WITHOUT AIR TARES

20 deg Deadrise, L/R = 0.117, Cv = 4

| RUN | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|-----|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 158 | 3           | 10          | -15        | 19.63        | 15.49   | -27.44  | 11.49   | 1.16       | 10.69      | -3.30      | 2.20        | 3.06     |
| 162 | 3           | 10          | -10        | 19.76        | 5.12    | -4.90   | 11.49   | -1.01      | 0.37       | 1.43       | 3.01        | 2.25     |
| 166 | 3           | 10          | -5         | 19.75        | 3.39    | -0.44   | 11.49   | -1.10      | -2.85      | -0.68      | 3.18        | 2.08     |
| 170 | 3           | 10          | 0          | 19.76        | 2.72    | 1.74    | 11.49   | -0.30      | -6.04      | -1.65      | 3.40        | 1.86     |
| 174 | 3           | 10          | 5          | 19.73        | 2.76    | 3.69    | 11.49   | 0.78       | -8.81      | -3.59      | 3.61        | 1.65     |
| 186 | 3           | 10          | 5          | 19.73        | 2.63    | 3.69    | 11.49   | 0.69       | -8.84      | -3.69      | 3.63        | 1.63     |
| 190 | 3           | 10          | 10         | 19.69        | 3.22    | 5.76    | 11.49   | 1.89       | -10.37     | -6.28      | 3.69        | 1.57     |
| 194 | 3           | 10          | 15         | 19.68        | 4.36    | 8.19    | 11.49   | 3.30       | -11.14     | -9.21      | 3.74        | 1.52     |
| 222 | 3           | 20          | -15        | 19.64        | 10.73   | -18.44  | 11.49   | 0.68       | 5.50       | 1.57       | 2.73        | 2.34     |
| 224 | 3           | 20          | -14        | 19.62        | 14.29   | -26.30  | 11.49   | 2.61       | 11.60      | 0.38       | 2.11        | 2.96     |
| 223 | 3           | 20          | -13        | 19.64        | 11.73   | -20.06  | 11.49   | 1.20       | 8.75       | 1.31       | 2.28        | 2.79     |
| 218 | 3           | 20          | -10        | 19.64        | 5.47    | -5.72   | 11.49   | -0.58      | 1.02       | 1.85       | 2.93        | 2.14     |
| 214 | 3           | 20          | -5         | 19.70        | 3.34    | -0.29   | 11.49   | -1.05      | -2.47      | -0.57      | 3.17        | 1.90     |
| 210 | 3           | 20          | 0          | 19.69        | 2.68    | 1.76    | 11.49   | -0.45      | -5.77      | -1.79      | 3.43        | 1.64     |
| 206 | 3           | 20          | 5          | 19.69        | 2.65    | 3.59    | 11.49   | 0.52       | -8.95      | -3.77      | 3.68        | 1.39     |
| 202 | 3           | 20          | 10         | 19.69        | 3.15    | 5.62    | 11.49   | 1.73       | -10.69     | -6.19      | 3.75        | 1.32     |
| 198 | 3           | 20          | 15         | 19.68        | 4.09    | 7.51    | 11.49   | 2.93       | -11.52     | -8.87      | 3.80        | 1.27     |
| 422 | 6           | -10         | -15        | 19.68        | 2.29    | -2.48   | 11.49   | -3.45      | -14.66     | 4.18       | 4.99        | 1.43     |
| 418 | 6           | -10         | -10        | 19.68        | 1.77    | -1.42   | 11.49   | -2.10      | -14.33     | 2.43       | 4.99        | 1.43     |
| 414 | 6           | -10         | -5         | 19.68        | 1.56    | -0.49   | 11.49   | -0.79      | -13.78     | 0.94       | 4.93        | 1.49     |
| 396 | 6           | -10         | 0          | 19.70        | 1.81    | 0.78    | 11.49   | 0.55       | -12.57     | -0.68      | 4.77        | 1.65     |
| 400 | 6           | -10         | 5          | 19.70        | 2.54    | 2.81    | 11.49   | 1.45       | -10.41     | -3.58      | 4.51        | 1.91     |
| 404 | 6           | -10         | 10         | 19.67        | 4.51    | 8.15    | 11.49   | 1.40       | -7.41      | -10.36     | 4.08        | 2.34     |
| 408 | 6           | -10         | 15         | 19.67        | 10.04   | 22.25   | 11.49   | -1.65      | 0.16       | -24.35     | 3.29        | 3.13     |
| 298 | 6           | 0           | -15        | 19.68        | 2.71    | -3.14   | 11.49   | -4.22      | -14.32     | 5.25       | 4.95        | 1.53     |
| 294 | 6           | 0           | -10        | 19.67        | 2.03    | -1.68   | 11.49   | -2.84      | -14.68     | 2.98       | 5.00        | 1.48     |
| 290 | 6           | 0           | -5         | 19.67        | 1.53    | -0.27   | 11.49   | -1.48      | -15.10     | 0.73       | 5.01        | 1.47     |
| 270 | 6           | 0           | 0          | 19.64        | 1.46    | 1.54    | 11.49   | 0.24       | -15.04     | -1.28      | 5.03        | 1.45     |
| 272 | 6           | 0           | 0          | 19.61        | 1.40    | 1.12    | 11.49   | -0.03      | -15.13     | -1.45      | 5.04        | 1.44     |
| 276 | 6           | 0           | 5          | 19.61        | 1.90    | 2.59    | 11.49   | 1.42       | -15.14     | -3.63      | 4.99        | 1.49     |
| 281 | 6           | 0           | 10         | 19.62        | 2.49    | 3.96    | 11.49   | 2.82       | -14.83     | -5.83      | 4.97        | 1.51     |
| 286 | 6           | 0           | 15         | 19.64        | 3.43    | 5.52    | 11.49   | 4.16       | -14.12     | -8.17      | 4.92        | 1.56     |
| 303 | 6           | 10          | -15        | 19.68        | 3.81    | -4.59   | 11.49   | -3.05      | -8.49      | 6.48       | 4.44        | 1.98     |
| 307 | 6           | 10          | -10        | 19.68        | 2.46    | -1.35   | 11.49   | -2.84      | -11.14     | 2.17       | 4.64        | 1.78     |
| 311 | 6           | 10          | -5         | 19.68        | 1.79    | 0.00    | 11.49   | -1.86      | -13.42     | 0.33       | 4.91        | 1.51     |
| 322 | 6           | 10          | -5         | 19.58        | 1.85    | -0.19   | 11.49   | -2.02      | -13.39     | 0.26       | 4.91        | 1.51     |
| 327 | 6           | 10          | 0          | 19.61        | 1.56    | 1.09    | 11.49   | -0.73      | -14.85     | -1.46      | 5.01        | 1.41     |
| 331 | 6           | 10          | 5          | 19.58        | 1.55    | 2.05    | 11.49   | 0.58       | -15.25     | -3.04      | 5.12        | 1.30     |
| 335 | 6           | 10          | 10         | 19.57        | 2.03    | 3.09    | 11.49   | 1.96       | -16.08     | -4.98      | 5.12        | 1.30     |
| 339 | 6           | 10          | 15         | 19.62        | 2.70    | 4.32    | 11.49   | 3.32       | -16.14     | -7.00      | 5.13        | 1.29     |
| 367 | 6           | 20          | -15        | 19.63        | 6.86    | -12.14  | 11.49   | -0.50      | -5.11      | 13.99      | 3.80        | 2.43     |
| 363 | 6           | 20          | -10        | 19.63        | 3.51    | -3.23   | 11.49   | -2.10      | -8.05      | 4.60       | 4.33        | 1.90     |
| 359 | 6           | 20          | -5         | 19.63        | 2.53    | 0.82    | 11.49   | -2.12      | -10.36     | -0.62      | 4.57        | 1.66     |
| 343 | 6           | 20          | 0          | 19.62        | 1.79    | 1.56    | 11.49   | -1.12      | -13.51     | -1.98      | 5.04        | 1.19     |
| 347 | 6           | 20          | 5          | 19.61        | 1.78    | 1.95    | 11.49   | 0.10       | -15.31     | -2.97      | 5.24        | 0.99     |
| 351 | 6           | 20          | 10         | 19.62        | 1.83    | 2.08    | 11.49   | 1.50       | -16.05     | -3.50      | 5.39        | 0.84     |
| 355 | 6           | 20          | 15         | 19.64        | 1.95    | 2.08    | 11.49   | 2.84       | -16.17     | -3.92      | 5.48        | 0.75     |

\* Indicates model was close to heave stop

TABLE 5.220.1 - STABILITY DATA IN WIND AXES WITHOUT AIR TARES

20 deg Deadrise, L/R = 0.234, Cv = 0

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 2934 | 0           | -10         | -15        | 0            | 0.02    | -0.08   | 11.49   | -0.43      | -3.57      | 0.03       | 2.26        | 1.83     |
| 2930 | 0           | -10         | -10        | 0            | 0.03    | -0.06   | 11.49   | -0.08      | -3.55      | -0.01      | 2.27        | 1.82     |
| 2926 | 0           | -10         | -5         | 0            | 0.03    | -0.02   | 11.49   | 0.26       | -3.53      | -0.05      | 2.26        | 1.83     |
| 2912 | 0           | -10         | 0          | 0            | 0.04    | -0.05   | 11.49   | 0.49       | -3.36      | 0.02       | 2.27        | 1.82     |
| 2916 | 0           | -10         | 5          | 0            | 0.01    | 0.01    | 11.49   | 0.88       | -3.39      | 0.01       | 2.27        | 1.82     |
| 2920 | 0           | -10         | 10         | 0            | 0.00    | -0.03   | 11.49   | 1.15       | -3.28      | 0.02       | 2.28        | 1.81     |
| 2924 | 0           | -10         | 15         | 0            | -0.00   | -0.05   | 11.49   | 1.39       | -3.22      | 0.02       | 2.26        | 1.83     |
| 2830 | 0           | 0           | -15        | 0            | 0.06    | -0.07   | 11.49   | -0.89      | -3.79      | 0.00       | 2.23        | 1.92     |
| 2831 | 0           | 0           | -15        | 0            | 0.07    | -0.06   | 11.49   | -0.89      | -3.78      | 0.00       | 2.23        | 1.92     |
| 2825 | 0           | 0           | -10        | 0            | 0.06    | -0.05   | 11.49   | -0.56      | -3.74      | -0.01      | 2.28        | 1.87     |
| 2821 | 0           | 0           | -5         | 0            | 0.05    | -0.04   | 11.49   | -0.20      | -3.67      | -0.01      | 2.28        | 1.87     |
| 2797 | 0           | 0           | 0          | 0            | 0.03    | 0.02    | 11.49   | 0.11       | -3.61      | -0.03      | 2.24        | 1.91     |
| 2802 | 0           | 0           | 5          | 0            | 0.05    | 0.01    | 11.49   | 0.43       | -3.67      | -0.01      | 2.24        | 1.91     |
| 2816 | 0           | 0           | 10         | 0            | 0.08    | 0.06    | 11.49   | 0.81       | -3.57      | 0.09       | 2.28        | 1.87     |
| 2859 | 0           | 10          | -15        | 0            | 0.08    | -0.09   | 11.49   | -1.37      | -3.65      | -0.03      | 2.27        | 1.82     |
| 2855 | 0           | 10          | -10        | 0            | 0.07    | -0.04   | 11.49   | -1.00      | -3.84      | -0.02      | 2.26        | 1.83     |
| 2851 | 0           | 10          | -5         | 0            | 0.06    | -0.03   | 11.49   | -0.65      | -3.68      | -0.01      | 2.32        | 1.77     |
| 2835 | 0           | 10          | 0          | 0            | 0.02    | -0.09   | 11.49   | -0.37      | -3.60      | 0.02       | 2.33        | 1.76     |
| 2839 | 0           | 10          | 5          | 0            | 0.01    | -0.06   | 11.49   | -0.00      | -3.74      | 0.05       | 2.31        | 1.78     |
| 2843 | 0           | 10          | 10         | 0            | 0.04    | -0.07   | 11.49   | 0.31       | -3.71      | 0.03       | 2.32        | 1.77     |
| 2847 | 0           | 10          | 15         | 0            | 0.04    | -0.08   | 11.49   | 0.62       | -3.65      | 0.04       | 2.33        | 1.76     |
| 2895 | 0           | 20          | -15        | 0            | 0.09    | -0.03   | 11.49   | -1.58      | -3.96      | 0.01       | 2.25        | 1.65     |
| 2889 | 0           | 20          | -10        | 0            | 0.06    | 0.01    | 11.49   | -1.11      | -3.73      | 0.01       | 2.40        | 1.50     |
| 2891 | 0           | 20          | -10        | 0            | 0.08    | -0.03   | 11.49   | -1.13      | -3.70      | 0.02       | 2.40        | 1.50     |
| 2880 | 0           | 20          | -5         | 0            | 0.06    | -0.07   | 11.49   | -0.42      | -0.13      | -0.03      | 2.36        | 1.54     |
| 2885 | 0           | 20          | -5         | 0            | 0.05    | -0.03   | 11.49   | -0.77      | -3.73      | 0.01       | 2.42        | 1.48     |
| 2864 | 0           | 20          | 0          | 0            | 0.04    | -0.05   | 11.49   | -0.48      | -3.66      | -0.01      | 2.46        | 1.44     |
| 2868 | 0           | 20          | 5          | 0            | 0.00    | -0.07   | 11.49   | -0.13      | -3.77      | 0.00       | 2.40        | 1.50     |
| 2872 | 0           | 20          | 10         | 0            | 0.02    | -0.06   | 11.49   | 0.21       | -3.78      | 0.01       | 2.41        | 1.49     |
| 2876 | 0           | 20          | 15         | 0            | 0.06    | -0.05   | 11.49   | 0.53       | -3.74      | 0.00       | 2.40        | 1.50     |
| 3072 | 3           | -10         | -15        | 0            | 0.01    | -0.02   | 11.49   | -1.77      | -8.53      | 0.02       | 2.65        | 2.61     |
| 3068 | 3           | -10         | -10        | 0            | 0.01    | 0.00    | 11.49   | -0.97      | -8.66      | 0.00       | 2.65        | 2.61     |
| 3064 | 3           | -10         | -5         | 0            | 0.02    | 0.02    | 11.49   | -0.21      | -8.67      | 0.01       | 2.64        | 2.62     |
| 3047 | 3           | -10         | 0          | 0            | -0.03   | -0.08   | 11.49   | 0.49       | -8.55      | -0.02      | 2.65        | 2.61     |
| 3051 | 3           | -10         | 5          | 0            | 0.01    | -0.02   | 11.49   | 1.27       | -8.57      | 0.03       | 2.64        | 2.62     |
| 3056 | 3           | -10         | 10         | 0            | 0.01    | -0.01   | 11.49   | 2.01       | -8.44      | 0.03       | 2.64        | 2.62     |
| 3061 | 3           | -10         | 15         | 0            | 0.01    | 0.01    | 11.49   | 2.74       | -8.27      | 0.01       | 2.65        | 2.61     |
| 2967 | 3           | 0           | -15        | 0            | 0.00    | -0.01   | 11.49   | -2.22      | -8.85      | 0.03       | 2.53        | 2.79     |
| 2962 | 3           | 0           | -10        | 0            | 0.00    | -0.02   | 11.49   | -1.45      | -9.01      | 0.06       | 2.52        | 2.80     |
| 2958 | 3           | 0           | -5         | 0            | 0.01    | -0.02   | 11.49   | -0.64      | -9.11      | 0.04       | 2.51        | 2.81     |
| 2942 | 3           | 0           | 0          | 0            | -0.01   | -0.04   | 11.49   | 0.13       | -8.89      | 0.03       | 2.52        | 2.80     |
| 2946 | 3           | 0           | 5          | 0            | -0.00   | -0.02   | 11.49   | 0.95       | -9.00      | 0.09       | 2.50        | 2.82     |
| 2950 | 3           | 0           | 10         | 0            | 0.02    | -0.02   | 11.49   | 1.72       | -8.89      | 0.05       | 2.50        | 2.82     |
| 2954 | 3           | 0           | 15         | 0            | 0.02    | -0.05   | 11.49   | 2.45       | -8.69      | 0.02       | 2.52        | 2.80     |

\* Indicates model was close to heave stop

TABLE 5.220.2 - STABILITY DATA IN WIND AXES WITHOUT AIR TARES

20 deg Deadrise, L/R = 0.234, Cv = 0

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 2984 | 3           | 10          | -15        | 0            | -0.01   | -0.01   | 11.49   | -2.48      | -8.53      | 0.03       | 2.54        | 2.72     |
| 2980 | 3           | 10          | -10        | 0            | 0.01    | -0.05   | 11.49   | -1.77      | -8.72      | 0.01       | 2.54        | 2.72     |
| 2976 | 3           | 10          | -5         | 0            | 0.01    | -0.04   | 11.49   | -1.02      | -8.79      | 0.02       | 2.55        | 2.71     |
| 2972 | 3           | 10          | 0          | 0            | 0.00    | 0.05    | 11.49   | -0.18      | -8.65      | 0.02       | 2.57        | 2.69     |
| 2969 | 3           | 10          | 5          | 0            | 0.03    | -0.03   | 11.49   | 0.56       | -8.93      | 0.00       | 2.51        | 2.75     |
| 2993 | 3           | 10          | 10         | 0            | 0.01    | -0.01   | 11.49   | 1.37       | -8.85      | 0.04       | 2.51        | 2.75     |
| 2997 | 3           | 10          | 15         | 0            | 0.01    | -0.04   | 11.49   | 2.07       | -8.70      | 0.01       | 2.52        | 2.74     |
| 3042 | 3           | 20          | -15        | 0            | 0.03    | -0.01   | 11.49   | -2.57      | -8.10      | 0.02       | 2.65        | 2.42     |
| 3037 | 3           | 20          | -10        | 0            | 0.02    | -0.03   | 11.49   | -1.87      | -8.23      | 0.06       | 2.65        | 2.42     |
| 3033 | 3           | 20          | -5         | 0            | 0.03    | -0.02   | 11.49   | -1.11      | -8.34      | 0.02       | 2.65        | 2.42     |
| 3003 |             | 20          | 0          | 0            | 0.02    | 0.00    | 11.49   | -0.39      | -8.44      | 0.02       | 2.61        | 2.46     |
| 3007 |             | 20          | 5          | 0            | 0.02    | -0.05   | 11.49   | 0.31       | -8.61      | 0.02       | 2.58        | 2.49     |
| 3024 | 3           | 20          | 10         | 0            | -0.01   | -0.05   | 11.49   | 1.02       | -8.35      | 0.07       | 2.61        | 2.46     |
| 3029 | 3           | 20          | 15         | 0            | 0.01    | -0.08   | 11.49   | 1.70       | -8.27      | 0.10       | 2.64        | 2.43     |
| 3198 | 6           | -10         | -15        | 0            | -0.02   | 0.05    | 11.49   | -2.70      | -11.83     | 0.05       | 3.01        | 3.41     |
| 3194 | 6           | -10         | -10        | 0            | -0.02   | 0.05    | 11.49   | -1.63      | -11.82     | 0.04       | 3.03        | 3.39     |
| 3190 | 6           | -10         | -5         | 0            | -0.01   | 0.05    | 11.49   | -0.62      | -12.10     | 0.04       | 3.01        | 3.41     |
| 3186 | 6           | -10         | 0          | 0            | -0.02   | 0.07    | 11.49   | 0.43       | -11.75     | 0.03       | 3.06        | 3.36     |
| 3202 | 6           | -10         | 5          | 0            | 0.00    | 0.05    | 11.49   | 1.51       | -11.82     | 0.05       | 3.03        | 3.39     |
| 3206 | 6           | -10         | 10         | 0            | 0.02    | 0.04    | 11.49   | 2.47       | -11.67     | 0.03       | 3.04        | 3.38     |
| 3210 | 6           | -10         | 15         | 0            | 0.01    | 0.05    | 11.49   | 3.46       | -11.31     | 0.05       | 3.06        | 3.36     |
| 3106 | 6           | 0           | -15        | 0            | -0.02   | 0.03    | 11.49   | -2.99      | -11.88     | 0.02       | 3.03        | 3.45     |
| 3101 | 6           | 0           | -10        | 0            | -0.02   | 0.04    | 11.49   | -1.93      | -12.15     | 0.03       | 3.02        | 3.46     |
| 3097 | 6           | 0           | -5         | 0            | 0.01    | 0.02    | 11.49   | -0.86      | -12.18     | 0.04       | 3.03        | 3.45     |
| 3079 | 6           | 0           | 0          | 0            | -0.01   | 0.02    | 11.49   | 0.14       | -12.17     | 0.00       | 3.01        | 3.47     |
| 3093 | 6           | 0           | 15         | 0            | 0.01    | 0.02    | 11.49   | 3.33       | -11.74     | 0.04       | 3.02        | 3.46     |
| 3150 | 6           | 10          | -15        | 0            | -0.02   | 0.01    | 11.49   | -3.20      | -11.66     | 0.02       | 3.03        | 3.39     |
| 3146 | 6           | 10          | -10        | 0            | -0.02   | 0.03    | 11.49   | -2.16      | -11.87     | 0.02       | 3.02        | 3.40     |
| 3142 | 6           | 10          | -5         | 0            | -0.01   | 0.02    | 11.49   | -1.11      | -12.00     | 0.03       | 3.02        | 3.40     |
| 3125 | 6           | 10          | 0          | 0            | -0.07   | 0.09    | 11.49   | -0.06      | -11.55     | 0.05       | 3.05        | 3.37     |
| 3129 | 6           | 10          | 5          | 0            | -0.01   | 0.01    | 11.49   | 0.95       | -12.02     | 0.04       | 2.99        | 3.43     |
| 3134 | 6           | 10          | 10         | 0            | 0.00    | 0.01    | 11.49   | 1.97       | -11.82     | 0.04       | 3.01        | 3.41     |
| 3138 | 6           | 10          | 15         | 0            | 0.03    | -0.01   | 11.49   | 2.99       | -11.59     | 0.01       | 3.02        | 3.40     |
| 3168 | 6           | 20          | -15        | 0            | -0.02   | 0.06    | 11.49   | -3.30      | -11.32     | 0.05       | 3.02        | 3.21     |
| 3164 | 6           | 20          | -10        | 0            | -0.01   | 0.03    | 11.49   | -2.33      | -11.54     | 0.05       | 3.03        | 3.20     |
| 3160 | 6           | 20          | -5         | 0            | -0.01   | 0.06    | 11.49   | -1.26      | -11.51     | 0.04       | 3.05        | 3.18     |
| 3156 | 6           | 20          | 0          | 0            | -0.03   | 0.02    | 11.49   | -0.32      | -11.43     | 0.06       | 3.12        | 3.11     |
| 3172 | 6           | 20          | 5          | 0            | -0.00   | -0.01   | 11.49   | 0.71       | -11.85     | 0.04       | 3.01        | 3.22     |
| 3176 | 6           | 20          | 10         | 0            | -0.00   | 0.04    | 11.49   | 1.69       | -11.24     | 0.05       | 3.12        | 3.11     |
| 3180 | 6           | 20          | 15         | 0            | 0.03    | 0.06    | 11.49   | 2.72       | -11.21     | 0.06       | 3.08        | 3.15     |

\* Indicates model was close to heave stop

TABLE 5.221.1 - STABILITY DATA IN WIND AXES WITHOUT AIR TARES

20 deg Deadrise, L/R = 0.234, Cv = 1.5

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|--------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 2935   | 0           | -10         | -15        | 7.36         | 3.39    | -4.97   | 11.49   | 1.20       | 1.13       | -7.34      | 1.54        | 2.55     |
| 2936   | 0           | -10         | -15        | 7.36         | 3.29    | -4.88   | 11.49   | 1.18       | 1.07       | -7.16      | 1.58        | 2.51     |
| 2931   | 0           | -10         | -10        | 7.36         | 2.07    | -2.56   | 11.49   | 0.78       | 0.40       | -4.36      | 1.89        | 2.20     |
| 2927   | 0           | -10         | -5         | 7.36         | 1.51    | -1.02   | 11.49   | 0.68       | 0.24       | -2.37      | 2.02        | 2.07     |
| 2913   | 0           | -10         | 0          | 7.35         | 1.27    | -0.18   | 11.49   | 0.48       | 0.35       | -1.05      | 2.03        | 2.06     |
| 2917   | 0           | -10         | 5          | 7.36         | 1.37    | 0.60    | 11.49   | 0.32       | 1.02       | -0.07      | 1.95        | 2.14     |
| 2921   | 0           | -10         | 10         | 7.36         | 2.10    | 2.11    | 11.49   | -0.22      | 2.35       | 0.55       | 1.69        | 2.40     |
| 2925 * | 0           | -10         | 15         | 7.36         | 3.59    | 4.97    | 11.49   | -1.56      | 4.30       | 1.96       | 1.34        | 2.75     |
| 2832 * | 0           | 0           | -15        | 7.36         | 3.92    | -6.42   | 11.49   | 0.84       | 0.37       | -8.42      | 1.46        | 2.69     |
| 2826   | 0           | 0           | -10        | 7.36         | 2.22    | -2.82   | 11.49   | 0.59       | 0.38       | -4.49      | 1.83        | 2.32     |
| 2822   | 0           | 0           | -5         | 7.36         | 1.49    | -1.10   | 11.49   | 0.41       | -0.03      | -2.36      | 2.01        | 2.14     |
| 2799   | 0           | 0           | 0          | 7.35         | 1.33    | -0.20   | 11.49   | 0.23       | 0.22       | -1.11      | 2.03        | 2.12     |
| 2803   | 0           | 0           | 5          | 7.35         | 1.41    | 0.37    | 11.49   | 0.12       | 0.82       | -0.22      | 1.95        | 2.20     |
| 2817   | 0           | 0           | 10         | 7.35         | 1.87    | 1.52    | 11.49   | -0.27      | 2.01       | 0.76       | 1.80        | 2.35     |
| 2860 * | 0           | 10          | -15        | 7.36         | 3.98    | -5.59   | 11.49   | 1.01       | 0.99       | -8.12      | 1.46        | 2.63     |
| 2856   | 0           | 10          | -10        | 7.37         | 2.43    | -3.33   | 11.49   | 0.25       | 0.06       | -5.11      | 1.78        | 2.31     |
| 2852   | 0           | 10          | -5         | 7.37         | 1.59    | -1.29   | 11.49   | -0.03      | -0.24      | -2.67      | 2.04        | 2.05     |
| 2836   | 0           | 10          | 0          | 7.36         | 1.30    | -0.38   | 11.49   | -0.29      | -0.04      | -1.35      | 2.11        | 1.98     |
| 2840   | 0           | 10          | 5          | 7.36         | 1.37    | 0.38    | 11.49   | -0.34      | 0.51       | -0.37      | 2.07        | 2.02     |
| 2844   | 0           | 10          | 10         | 7.36         | 1.79    | 1.27    | 11.49   | -0.51      | 1.46       | 0.50       | 1.97        | 2.12     |
| 2848   | 0           | 10          | 15         | 7.37         | 2.91    | 3.22    | 11.49   | -1.33      | 3.64       | 1.67       | 1.68        | 2.41     |
| 2849   | 0           | 10          | 15         | 7.36         | 2.93    | 3.22    | 11.49   | -1.30      | 3.64       | 1.65       | 1.67        | 2.42     |
| 2894 * | 0           | 20          | -15        | 7.36         | 4.19    | -5.68   | 11.49   | 1.12       | 0.99       | -8.39      | 1.46        | 2.44     |
| 2890   | 0           | 20          | -10        | 7.37         | 2.38    | -2.61   | 11.49   | 0.09       | -0.14      | -4.51      | 1.90        | 2.00     |
| 2886   | 0           | 20          | -5         | 7.36         | 1.63    | -1.30   | 11.49   | -0.24      | -0.29      | -2.77      | 2.15        | 1.75     |
| 2865   | 0           | 20          | 0          | 7.35         | 1.27    | -0.28   | 11.49   | -0.44      | -0.03      | -1.57      | 2.22        | 1.68     |
| 2869   | 0           | 20          | 5          | 7.36         | 1.31    | 0.46    | 11.49   | -0.58      | 0.33       | -0.76      | 2.14        | 1.76     |
| 2873   | 0           | 20          | 10         | 7.36         | 1.67    | 1.51    | 11.49   | -0.81      | 1.34       | 0.22       | 2.07        | 1.83     |
| 2877   | 0           | 20          | 15         | 7.36         | 2.65    | 3.13    | 11.49   | -1.31      | 2.91       | 1.36       | 1.91        | 1.99     |
| 3073   | 3           | -10         | -15        | 7.35         | 2.32    | -2.81   | 11.49   | -0.46      | -2.78      | -1.29      | 2.40        | 2.86     |
| 3069   | 3           | -10         | -10        | 7.34         | 1.63    | -1.26   | 11.49   | -0.24      | -4.17      | -1.03      | 2.55        | 2.71     |
| 3065   | 3           | -10         | -5         | 7.34         | 1.33    | -0.19   | 11.49   | 0.14       | -4.76      | -0.87      | 2.57        | 2.69     |
| 3048   | 3           | -10         | 0          | 7.34         | 1.25    | 0.51    | 11.49   | 0.56       | -4.74      | -0.93      | 2.58        | 2.68     |
| 3052   | 3           | -10         | 5          | 7.35         | 1.46    | 1.36    | 11.49   | 0.89       | -4.11      | -1.09      | 2.50        | 2.76     |
| 3057   | 3           | -10         | 10         | 7.35         | 2.05    | 2.79    | 11.49   | 0.81       | -2.76      | -1.52      | 2.30        | 2.96     |
| 3060   | 3           | -10         | 15         | 7.35         | 3.64    | 6.11    | 11.49   | 0.05       | -0.73      | -2.51      | 1.93        | 3.33     |
| 2968   | 3           | 0           | -15        | 7.36         | 2.65    | -3.49   | 11.49   | -1.12      | -3.91      | -1.64      | 2.19        | 3.13     |
| 2963   | 3           | 0           | -10        | 7.36         | 1.73    | -1.52   | 11.49   | -0.86      | -5.06      | -0.97      | 2.42        | 2.90     |
| 2959   | 3           | 0           | -5         | 7.36         | 1.41    | -0.41   | 11.49   | -0.40      | -5.32      | -0.80      | 2.48        | 2.84     |
| 2943   | 3           | 0           | 0          | 7.36         | 1.28    | 0.29    | 11.49   | 0.16       | -5.14      | -0.83      | 2.46        | 2.86     |
| 2947   | 3           | 0           | 5          | 7.36         | 1.44    | 1.05    | 11.49   | 0.62       | -4.54      | -0.95      | 2.40        | 2.92     |
| 2951   | 3           | 0           | 10         | 7.36         | 1.93    | 2.20    | 11.49   | 0.76       | -3.38      | -1.32      | 2.27        | 3.05     |
| 2955   | 3           | 0           | 15         | 7.36         | 3.17    | 4.67    | 11.49   | 0.36       | -1.38      | -2.28      | 2.00        | 3.32     |

\* Indicates model was close to heave stop

TABLE 5.221.2 - STABILITY DATA IN WIND AXES WITHOUT AIR TARES

20 deg Deadrise, L/R = 0.234, Cv = 1.5

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 2985 | 3           | 10          | -15        | 7.36         | 2.72    | -3.55   | 11.49   | -1.33      | -4.19      | -1.60      | 2.19        | 3.07     |
| 2986 | 3           | 10          | -15        | 7.36         | 2.71    | -3.54   | 11.49   | -1.31      | -4.18      | -1.67      | 2.18        | 3.08     |
| 2981 | 3           | 10          | -10        | 7.36         | 1.77    | -1.51   | 11.49   | -1.14      | -4.96      | -1.06      | 2.41        | 2.85     |
| 2977 | 3           | 10          | -5         | 7.36         | 1.43    | -0.51   | 11.49   | -0.79      | -5.31      | -0.84      | 2.50        | 2.76     |
| 2973 | 3           | 10          | 0          | 7.37         | 1.31    | 0.35    | 11.49   | -0.24      | -5.28      | -0.78      | 2.53        | 2.73     |
| 2990 | 3           | 10          | 5          | 7.36         | 1.45    | 0.94    | 11.49   | 0.15       | -4.91      | -0.99      | 2.46        | 2.80     |
| 2994 | 3           | 10          | 10         | 7.36         | 1.79    | 2.06    | 11.49   | 0.61       | -3.70      | -1.40      | 2.39        | 2.87     |
| 2998 | 3           | 10          | 15         | 7.36         | 2.67    | 3.62    | 11.49   | 0.44       | -1.84      | -1.98      | 2.21        | 3.05     |
| 3043 | 3           | 20          | -15        | 7.34         | 2.70    | -3.18   | 11.49   | -0.82      | -3.89      | -1.94      | 2.20        | 2.87     |
| 3038 | 3           | 20          | -10        | 7.34         | 1.78    | -1.68   | 11.49   | -1.09      | -4.75      | -1.11      | 2.46        | 2.61     |
| 3034 | 3           | 20          | -5         | 7.34         | 1.45    | -0.23   | 11.49   | -0.80      | -5.06      | -0.85      | 2.59        | 2.48     |
| 3004 | 3           | 20          | 0          | 7.36         | 1.33    | 0.44    | 11.49   | -0.50      | -5.02      | -0.88      | 2.57        | 2.50     |
| 3008 | 3           | 20          | 5          | 7.36         | 1.45    | 1.26    | 11.49   | -0.13      | -4.84      | -1.14      | 2.55        | 2.52     |
| 3025 | 3           | 20          | 10         | 7.34         | 1.71    | 2.32    | 11.49   | 0.17       | -4.11      | -1.57      | 2.50        | 2.57     |
| 3030 | 3           | 20          | 15         | 7.33         | 2.38    | 3.40    | 11.49   | 0.26       | -2.59      | -1.88      | 2.46        | 2.61     |
| 3199 | 6           | -10         | -15        | 7.35         | 2.21    | -2.30   | 11.49   | -1.52      | -7.45      | 1.90       | 3.15        | 3.27     |
| 3195 | 6           | -10         | -10        | 7.35         | 1.77    | -1.27   | 11.49   | -0.98      | -8.27      | 0.89       | 3.20        | 3.22     |
| 3191 | 6           | -10         | -5         | 7.36         | 1.55    | -0.27   | 11.49   | -0.28      | -8.69      | -0.12      | 3.20        | 3.22     |
| 3187 | 6           | -10         | 0          | 7.36         | 1.52    | 0.81    | 11.49   | 0.46       | -8.68      | -1.08      | 3.16        | 3.26     |
| 3203 | 6           | -10         | 5          | 7.35         | 1.84    | 1.88    | 11.49   | 1.15       | -8.16      | -2.07      | 3.05        | 3.37     |
| 3207 | 6           | -10         | 10         | 7.35         | 2.42    | 3.45    | 11.49   | 1.45       | -7.22      | -3.61      | 2.89        | 3.53     |
| 3211 | 6           | -10         | 15         | 7.35         | 3.75    | 6.49    | 11.49   | 1.17       | -5.42      | -6.22      | 2.66        | 3.76     |
| 3212 | 6           | -10         | 15         | 7.36         | 3.93    | 6.74    | 11.49   | 1.22       | -5.47      | -6.33      | 2.59        | 3.83     |
| 3107 | 6           | 0           | -15        | 7.34         | 2.27    | -2.16   | 11.49   | -2.08      | -8.11      | 1.53       | 3.05        | 3.43     |
| 3102 | 6           | 0           | -10        | 7.34         | 1.80    | -1.11   | 11.49   | -1.44      | -8.82      | 0.69       | 3.15        | 3.33     |
| 3098 | 6           | 0           | -5         | 7.34         | 1.60    | -0.14   | 11.49   | -0.64      | -8.99      | -0.14      | 3.23        | 3.25     |
| 3082 | 6           | 0           | 0          | 7.34         | 1.49    | 0.78    | 11.49   | 0.17       | -8.89      | -0.98      | 3.19        | 3.29     |
| 3085 | 6           | 0           | 5          | 7.34         | 1.71    | 1.69    | 11.49   | 0.92       | -8.45      | -1.87      | 3.12        | 3.36     |
| 3090 | 6           | 0           | 10         | 7.34         | 2.25    | 2.97    | 11.49   | 1.50       | -7.59      | -3.11      | 3.00        | 3.48     |
| 3094 | 6           | 0           | 15         | 7.34         | 3.21    | 4.93    | 11.49   | 1.52       | -6.24      | -5.09      | 2.78        | 3.70     |
| 3151 | 6           | 10          | -15        | 7.33         | 2.39    | -2.30   | 11.49   | -2.21      | -8.09      | 1.62       | 2.96        | 3.46     |
| 3147 | 6           | 10          | -10        | 7.33         | 1.78    | -0.91   | 11.49   | -1.69      | -8.70      | 0.64       | 3.12        | 3.30     |
| 3143 | 6           | 10          | -5         | 7.33         | 1.57    | 0.10    | 11.49   | -0.92      | -9.01      | -0.17      | 3.20        | 3.22     |
| 3126 | 6           | 10          | 0          | 7.32         | 1.49    | 1.06    | 11.49   | -0.16      | -8.88      | -0.99      | 3.18        | 3.24     |
| 3130 | 6           | 10          | 5          | 7.32         | 1.69    | 2.04    | 11.49   | 0.51       | -8.40      | -2.19      | 3.15        | 3.27     |
| 3135 | 6           | 10          | 10         | 7.33         | 2.13    | 2.98    | 11.49   | 1.17       | -7.55      | -3.10      | 3.10        | 3.32     |
| 3139 | 6           | 10          | 15         | 7.33         | 2.95    | 4.29    | 11.49   | 1.58       | -6.48      | -4.46      | 3.01        | 3.41     |
| 3169 | 6           | 20          | -15        | 7.34         | 2.66    | -3.01   | 11.49   | -2.09      | -8.00      | 1.97       | 2.90        | 3.33     |
| 3165 | 6           | 20          | -10        | 7.34         | 1.93    | -1.09   | 11.49   | -1.78      | -8.64      | 0.72       | 3.04        | 3.19     |
| 3161 | 6           | 20          | -5         | 7.33         | 1.67    | 0.14    | 11.49   | -1.12      | -8.88      | -0.17      | 3.14        | 3.09     |
| 3157 | 6           | 20          | 0          | 7.34         | 1.63    | 1.14    | 11.49   | -0.50      | -8.84      | -1.06      | 3.25        | 2.98     |
| 3173 | 6           | 20          | 5          | 7.34         | 1.99    | 2.45    | 11.49   | 0.21       | -8.65      | -2.28      | 3.21        | 3.02     |
| 3177 | 6           | 20          | 10         | 7.34         | 2.35    | 3.46    | 11.49   | 0.86       | -7.65      | -3.31      | 3.24        | 2.99     |
| 3181 | 6           | 20          | 15         | 7.34         | 2.91    | 4.30    | 11.49   | 1.52       | -7.01      | -4.16      | 3.28        | 2.95     |

\* Indicates model was close to heave stop

TABLE 5.223.1 - STABILITY DATA IN WIND AXES WITHOUT AIR TARES

20 deg Deadrise, L/R = 0.234, Cv = 3

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|--------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 2937 * | 0           | -10         | -15        | 14.75        | 13.94   | -21.39  | 11.49   | 2.35       | 6.21       | -23.07     | 1.46        | 2.63     |
| 2939 * | 0           | -10         | -15        | 14.75        | 13.76   | -21.55  | 11.49   | 2.07       | 4.54       | -23.24     | 1.46        | 2.63     |
| 2932   | 0           | -10         | -10        | 14.74        | 7.31    | -10.54  | 11.49   | 2.21       | 7.46       | -14.50     | 1.96        | 2.13     |
| 2928   | 0           | -10         | -5         | 14.74        | 4.79    | -4.59   | 11.49   | 1.18       | 5.91       | -7.39      | 2.17        | 1.92     |
| 2914   | 0           | -10         | 0          | 14.73        | 4.06    | -0.70   | 11.49   | 0.58       | 3.94       | -4.08      | 2.16        | 1.93     |
| 2918   | 0           | -10         | 5          | 14.75        | 5.22    | 4.04    | 11.49   | -0.49      | 6.69       | -4.60      | 1.83        | 2.26     |
| 2922 * | 0           | -10         | 10         | 14.75        | 9.07    | 14.62   | 11.49   | -2.90      | 11.47      | -4.41      | 1.37        | 2.72     |
| 2833 * | 0           | 0           | -15        | 14.74        | 14.25   | -25.84  | 11.49   | 2.21       | 2.76       | -28.01     | 1.53        | 2.62     |
| 2828   | 0           | 0           | -10        | 14.75        | 8.02    | -11.83  | 11.49   | 1.56       | 1.82       | -14.79     | 1.75        | 2.40     |
| 2823   | 0           | 0           | -5         | 14.74        | 4.77    | -4.25   | 11.49   | 0.96       | 3.30       | -7.41      | 2.19        | 1.96     |
| 2800   | 0           | 0           | 0          | 14.75        | 4.05    | -0.69   | 11.49   | 0.61       | 4.39       | -4.16      | 2.16        | 1.99     |
| 2804   | 0           | 0           | 5          | 14.73        | 4.75    | 2.41    | 11.49   | -0.22      | 7.62       | -2.50      | 1.99        | 2.16     |
| 2818 * | 0           | 0           | 10         | 14.73        | 8.66    | 12.42   | 11.49   | -2.57      | 12.73      | -4.97      | 1.43        | 2.72     |
| 2857   | 0           | 10          | -10        | 14.74        | 8.45    | -15.20  | 11.49   | 1.16       | -1.13      | -18.50     | 1.76        | 2.33     |
| 2853   | 0           | 10          | -5         | 14.76        | 5.01    | -5.11   | 11.49   | 0.48       | 0.10       | -8.03      | 2.18        | 1.91     |
| 2837   | 0           | 10          | 0          | 14.75        | 4.00    | -0.78   | 11.49   | 0.16       | 1.80       | -4.22      | 2.25        | 1.84     |
| 2841   | 0           | 10          | 5          | 14.77        | 4.34    | 2.17    | 11.49   | -0.08      | 5.74       | -2.08      | 2.21        | 1.88     |
| 2845   | 0           | 10          | 10         | 14.77        | 6.23    | 6.84    | 11.49   | -0.97      | 9.06       | -1.19      | 2.14        | 1.95     |
| 2850 * | 0           | 10          | 15         | 14.76        | 12.50   | 20.12   | 11.49   | -3.72      | 14.82      | -2.16      | 1.39        | 2.70     |
| 2896 * | 0           | 20          | -15        | 14.75        | 16.31   | -25.16  | 11.49   | 7.83       | 22.64      | -25.41     | 1.52        | 2.38     |
| 2892   | 0           | 20          | -10        | 14.74        | 8.22    | -11.24  | 11.49   | 3.10       | 11.45      | -12.34     | 1.98        | 1.92     |
| 2887   | 0           | 20          | -5         | 14.74        | 4.94    | -5.63   | 11.49   | 0.43       | 0.62       | -8.29      | 2.26        | 1.64     |
| 2866   | 0           | 20          | 0          | 14.73        | 3.88    | -0.98   | 11.49   | -0.20      | 0.50       | -4.14      | 2.35        | 1.55     |
| 2870   | 0           | 20          | 5          | 14.75        | 4.01    | 2.36    | 11.49   | -0.33      | 3.17       | -2.65      | 2.35        | 1.55     |
| 2874   | 0           | 20          | 10         | 14.74        | 4.35    | 4.80    | 11.49   | -0.42      | 4.28       | -2.11      | 2.66        | 1.24     |
| 2878   | 0           | 20          | 15         | 14.76        | 5.01    | 6.92    | 11.49   | -0.52      | 2.87       | -2.72      | 3.00        | 0.90     |
| 2883   | 0           | 20          | 15         | 14.76        | 5.00    | 6.77    | 11.49   | -0.68      | 3.10       | -2.61      | 2.99        | 0.91     |
| 3074   | 3           | -10         | -15        | 14.71        | 3.56    | -4.57   | 11.49   | -0.76      | -2.84      | 0.54       | 3.32        | 1.94     |
| 3070   | 3           | -10         | -10        | 14.72        | 2.83    | -2.82   | 11.49   | -0.05      | -2.37      | -0.14      | 3.23        | 2.03     |
| 3066   | 3           | -10         | -5         | 14.72        | 2.51    | -1.12   | 11.49   | 0.51       | -1.78      | -0.60      | 3.12        | 2.14     |
| 3049   | 3           | -10         | 0          | 14.73        | 2.64    | 1.59    | 11.49   | 0.77       | -1.94      | -2.31      | 2.98        | 2.28     |
| 3053   | 3           | -10         | 5          | 14.72        | 3.68    | 5.11    | 11.49   | 0.67       | -0.25      | -4.57      | 2.77        | 2.49     |
| 3054   | 3           | -10         | 5          | 14.73        | 3.66    | 5.14    | 11.49   | 0.68       | -0.31      | -4.55      | 2.77        | 2.49     |
| 3058   | 3           | -10         | 10         | 14.71        | 6.91    | 13.94   | 11.49   | -0.80      | 4.74       | -9.29      | 2.30        | 2.96     |
| 3062 * | 3           | -10         | 15         | 14.71        | 15.06   | 31.64   | 11.49   | -5.18      | 13.95      | -12.04     | 1.42        | 3.84     |
| 2969   | 3           | 0           | -15        | 14.76        | 7.89    | -12.23  | 11.49   | -0.05      | 2.71       | -3.55      | 2.38        | 2.94     |
| 2964   | 3           | 0           | -10        | 14.75        | 3.81    | -4.02   | 11.49   | -0.70      | -1.93      | -1.95      | 2.81        | 2.51     |
| 2960   | 3           | 0           | -5         | 14.75        | 2.77    | -0.82   | 11.49   | -0.32      | -3.61      | -1.46      | 2.95        | 2.37     |
| 2944   | 3           | 0           | 0          | 14.76        | 2.60    | 1.03    | 11.49   | 0.23       | -3.48      | -2.06      | 2.92        | 2.40     |
| 2948   | 3           | 0           | 5          | 14.73        | 3.07    | 3.57    | 11.49   | 0.70       | -2.24      | -3.38      | 2.88        | 2.44     |
| 2953   | 3           | 0           | 10         | 14.78        | 4.81    | 7.87    | 11.49   | 0.53       | 0.81       | -6.31      | 2.69        | 2.63     |
| 2956   | 3           | 0           | 15         | 14.74        | 10.30   | 18.95   | 11.49   | -2.13      | 8.73       | -11.46     | 2.15        | 3.17     |

\* Indicates model was close to heave stop

TABLE 5.223.2 - STABILITY DATA IN WIND AXES WITHOUT AIR TARES

20 deg Deadrise, L/R = 0.234, Cv = 3

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 2987 | 3           | 10          | -15        | 14.75        | 4.73    | -6.40   | 11.49   | 0.38       | 4.22       | 1.55       | 2.95        | 2.31     |
| 2982 | 3           | 10          | -10        | 14.75        | 4.31    | -4.42   | 11.49   | -0.87      | -2.35      | -1.33      | 2.73        | 2.53     |
| 2978 | 3           | 10          | -5         | 14.76        | 2.83    | -0.39   | 11.49   | -0.82      | -4.05      | -1.65      | 2.95        | 2.31     |
| 2974 | 3           | 10          | 0          | 14.75        | 2.49    | 1.40    | 11.49   | -0.16      | -4.23      | -2.21      | 3.10        | 2.16     |
| 2991 | 3           | 10          | 5          | 14.76        | 2.45    | 2.97    | 11.49   | 0.63       | -4.85      | -2.82      | 3.25        | 2.01     |
| 2995 | 3           | 10          | 10         | 14.74        | 3.03    | 4.83    | 11.49   | 1.64       | -5.49      | -4.09      | 3.34        | 1.92     |
| 2999 | 3           | 10          | 15         | 14.76        | 4.14    | 7.09    | 11.49   | 2.67       | -5.56      | -5.92      | 3.36        | 1.90     |
| 3044 | 3           | 20          | -15        | 14.72        | 6.26    | -9.49   | 11.49   | 1.83       | 4.30       | 0.94       | 2.76        | 2.31     |
| 3039 | 3           | 20          | -10        | 14.71        | 4.11    | -4.77   | 11.49   | -0.11      | 0.47       | -0.07      | 2.80        | 2.27     |
| 3035 | 3           | 20          | -5         | 14.72        | 2.94    | -0.22   | 11.49   | -0.86      | -4.23      | -0.88      | 3.03        | 2.04     |
| 3005 | 3           | 20          | 0          | 14.74        | 2.54    | 2.48    | 11.49   | -0.49      | -4.75      | -2.65      | 3.12        | 1.95     |
| 3009 | 3           | 20          | 5          | 14.76        | 2.67    | 4.01    | 11.49   | 0.31       | -6.15      | -3.99      | 3.43        | 1.64     |
| 3026 | 3           | 20          | 10         | 14.68        | 2.87    | 4.90    | 11.49   | 1.18       | -7.98      | -5.39      | 3.70        | 1.37     |
| 3031 | 3           | 20          | 15         | 14.69        | 3.43    | 5.85    | 11.49   | 2.41       | -10.07     | -7.12      | 3.92        | 1.15     |
| 3200 | 6           | -10         | -15        | 14.75        | 2.43    | -2.51   | 11.49   | -2.77      | -12.47     | 3.80       | 4.65        | 1.77     |
| 3196 | 6           | -10         | -10        | 14.73        | 2.17    | -1.69   | 11.49   | -1.39      | -11.36     | 2.30       | 4.48        | 1.94     |
| 3192 | 6           | -10         | -5         | 14.72        | 1.92    | -0.74   | 11.49   | -0.11      | -9.74      | 0.93       | 4.27        | 2.15     |
| 3188 | 6           | -10         | 0          | 14.75        | 2.32    | 1.57    | 11.49   | 0.76       | -8.64      | -2.01      | 4.05        | 2.37     |
| 3204 | 6           | -10         | 5          | 14.73        | 3.15    | 4.96    | 11.49   | 1.13       | -7.24      | -6.06      | 3.83        | 2.59     |
| 3208 | 6           | -10         | 10         | 14.73        | 4.96    | 10.54   | 11.49   | 0.82       | -4.55      | -11.92     | 3.47        | 2.95     |
| 3213 | 6           | -10         | 15         | 14.74        | 10.91   | 24.40   | 11.49   | -2.12      | 2.58       | -21.92     | 2.64        | 3.78     |
| 3108 | 6           | 0           | -15        | 14.73        | 2.82    | -2.33   | 11.49   | -2.78      | -9.73      | 2.52       | 4.26        | 2.22     |
| 3103 | 6           | 0           | -10        | 14.49        | 2.04    | -0.97   | 11.49   | -1.79      | -10.34     | 1.03       | 4.36        | 2.12     |
| 3104 | 6           | 0           | -10        | 14.73        | 2.07    | -0.98   | 11.49   | -1.83      | -10.64     | 1.08       | 4.39        | 2.09     |
| 3099 | 6           | 0           | -5         | 14.71        | 1.87    | 0.22    | 11.49   | -0.66      | -11.06     | -0.17      | 4.44        | 2.04     |
| 3081 | 6           | 0           | 0          | 14.70        | 1.95    | 1.31    | 11.49   | 0.48       | -10.98     | -1.42      | 4.32        | 2.16     |
| 3086 | 6           | 0           | 5          | 14.70        | 2.29    | 2.88    | 11.49   | 1.59       | -10.39     | -3.27      | 4.29        | 2.19     |
| 3091 | 6           | 0           | 10         | 14.71        | 3.26    | 5.30    | 11.49   | 2.42       | -9.25      | -6.27      | 4.20        | 2.28     |
| 3095 | 6           | 0           | 15         | 14.73        | 5.55    | 10.22   | 11.49   | 2.20       | -6.15      | -11.92     | 3.84        | 2.64     |
| 3152 | 6           | 10          | -15        | 14.72        | 3.81    | -3.94   | 11.49   | -2.05      | -6.87      | 3.71       | 3.76        | 2.66     |
| 3148 | 6           | 10          | -10        | 14.71        | 2.48    | -0.51   | 11.49   | -1.94      | -8.64      | 0.43       | 4.05        | 2.37     |
| 3144 | 6           | 10          | -5         | 14.71        | 1.94    | 1.28    | 11.49   | -1.11      | -10.56     | -1.43      | 4.31        | 2.11     |
| 3127 | 6           | 10          | 0          | 14.68        | 1.92    | 2.43    | 11.49   | 0.01       | -12.35     | -2.84      | 4.46        | 1.96     |
| 3131 | 6           | 10          | 5          | 14.69        | 2.09    | 3.35    | 11.49   | 1.28       | -13.80     | -4.58      | 4.67        | 1.75     |
| 3136 | 6           | 10          | 10         | 14.69        | 2.63    | 4.44    | 11.49   | 2.88       | -14.70     | -6.28      | 4.77        | 1.65     |
| 3140 | 6           | 10          | 15         | 14.70        | 3.21    | 5.09    | 11.49   | 4.28       | -15.13     | -7.79      | 4.92        | 1.50     |
| 3170 | 6           | 20          | -15        | 14.73        | 5.32    | -7.96   | 11.49   | -1.23      | -6.19      | 5.83       | 3.37        | 2.86     |
| 3166 | 6           | 20          | -10        | 14.71        | 2.98    | -1.37   | 11.49   | -1.77      | -7.88      | 1.18       | 3.82        | 2.41     |
| 3162 | 6           | 20          | -5         | 14.70        | 2.30    | 2.05    | 11.49   | -1.46      | -9.24      | -2.20      | 4.07        | 2.16     |
| 3158 | 6           | 20          | 0          | 14.70        | 2.35    | 4.23    | 11.49   | -0.74      | -10.97     | -4.79      | 4.31        | 1.92     |
| 3174 | 6           | 20          | 5          | 14.71        | 2.50    | 4.15    | 11.49   | 0.66       | -13.59     | -5.40      | 4.74        | 1.49     |
| 3178 | 6           | 20          | 10         | 14.73        | 2.73    | 4.11    | 11.49   | 2.01       | -14.72     | -6.04      | 5.01        | 1.22     |
| 3182 | 6           | 20          | 15         | 14.73        | 3.31    | 4.57    | 11.49   | 3.51       | -15.80     | -7.25      | 5.13        | 1.10     |

\* Indicates model was close to heave stop



TABLE 5.224.1 - STABILITY DATA IN WIND AXES WITHOUT AIR TARES

20 deg Deadrise, L/R = 0.234, Cv = 4

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|--------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 2933   | 0           | -10         | -10        | 19.72        | 12.04   | -17.51  | 11.49   | 3.98       | 16.87      | -27.02     | 1.96        | 2.13     |
| 2929   | 0           | -10         | -5         | 19.73        | 7.62    | -7.89   | 11.49   | 1.99       | 14.59      | -13.24     | 2.15        | 1.94     |
| 2915   | 0           | -10         | 0          | 19.68        | 6.13    | -2.23   | 11.49   | 0.54       | 10.83      | -5.33      | 2.18        | 1.91     |
| 2919   | 0           | -10         | 5          | 19.73        | 9.24    | 8.11    | 11.49   | -1.13      | 12.89      | -10.23     | 1.68        | 2.41     |
| 2829   | 0           | 0           | -10        | 19.69        | 13.30   | -19.13  | 11.49   | 3.06       | 6.96       | -28.71     | 1.75        | 2.40     |
| 2824   | 0           | 0           | -5         | 19.66        | 7.55    | -7.30   | 11.49   | 1.78       | 9.46       | -13.41     | 2.18        | 1.97     |
| 2801   | 0           | 0           | 0          | 19.68        | 6.11    | -1.90   | 11.49   | 0.85       | 10.78      | -6.68      | 2.20        | 1.95     |
| 2805   | 0           | 0           | 5          | 19.67        | 7.59    | 4.61    | 11.49   | -0.57      | 14.10      | -5.09      | 1.97        | 2.18     |
| 2820 * | 0           | 0           | 10         | 19.67        | 13.53   | 20.30   | 11.49   | -3.97      | 21.38      | -7.96      | 1.45        | 2.70     |
| 2858   | 0           | 10          | -10        | 19.67        | 13.27   | -23.99  | 11.49   | 2.86       | 1.73       | -34.57     | 1.83        | 2.26     |
| 2854   | 0           | 10          | -5         | 19.71        | 8.41    | -8.10   | 11.49   | 1.19       | 2.76       | -15.11     | 2.15        | 1.94     |
| 2838   | 0           | 10          | 0          | 19.68        | 6.11    | -1.50   | 11.49   | 0.64       | 6.79       | -7.71      | 2.24        | 1.85     |
| 2842   | 0           | 10          | 5          | 19.68        | 6.89    | 3.73    | 11.49   | 0.05       | 10.92      | -4.17      | 2.29        | 1.80     |
| 2846   | 0           | 10          | 10         | 19.68        | 7.65    | 7.94    | 11.49   | -0.50      | 11.75      | -1.76      | 2.62        | 1.47     |
| 2893   | 0           | 20          | -10        | 19.69        | 13.37   | -17.75  | 11.49   | 5.85       | 23.66      | -23.62     | 2.02        | 1.88     |
| 2888   | 0           | 20          | -5         | 19.63        | 8.01    | -9.31   | 11.49   | 1.24       | 3.49       | -15.29     | 2.23        | 1.67     |
| 2867   | 0           | 20          | 0          | 19.63        | 6.29    | -1.08   | 11.49   | 0.19       | 3.01       | -7.51      | 2.34        | 1.56     |
| 2871   | 0           | 20          | 5          | 19.69        | 5.76    | 3.46    | 11.49   | 0.00       | 6.38       | -4.99      | 2.53        | 1.37     |
| 2875   | 0           | 20          | 10         | 19.68        | 5.28    | 5.80    | 11.49   | -0.65      | 3.94       | -4.19      | 3.12        | 0.78     |
| 2879   | 0           | 20          | 15         | 19.66        | 5.88    | 7.83    | 11.49   | -0.82      | 1.07       | -4.88      | 3.42        | 0.48     |
| 2884   | 0           | 20          | 15         | 19.68        | 5.80    | 7.73    | 11.49   | -0.90      | 1.27       | -4.75      | 3.42        | 0.48     |
| 3075   | 3           | -10         | -15        | 19.62        | 4.64    | -6.44   | 11.49   | -1.64      | -5.87      | 2.57       | 3.52        | 1.74     |
| 3071   | 3           | -10         | -10        | 19.67        | 3.66    | -3.98   | 11.49   | -0.19      | -3.45      | 0.46       | 3.41        | 1.85     |
| 3067   | 3           | -10         | -5         | 19.69        | 3.22    | -1.30   | 11.49   | 0.83       | -0.75      | -0.76      | 3.28        | 1.98     |
| 3050   | 3           | -10         | 0          | 19.67        | 3.64    | 2.39    | 11.49   | 1.06       | 0.78       | -3.23      | 3.09        | 2.17     |
| 3055   | 3           | -10         | 5          | 19.67        | 5.64    | 9.97    | 11.49   | 0.54       | 4.10       | -8.99      | 2.85        | 2.41     |
| 3059   | 3           | -10         | 10         | 19.66        | 11.21   | 25.02   | 11.49   | -2.50      | 13.59      | -17.10     | 2.25        | 3.01     |
| 2970   | 3           | 0           | -15        | 19.67        | 12.12   | -19.12  | 11.49   | 0.80       | 8.94       | -7.87      | 2.43        | 2.89     |
| 2965   | 3           | 0           | -10        | 19.64        | 5.25    | -5.13   | 11.49   | -0.76      | 0.14       | -3.63      | 2.91        | 2.41     |
| 2961   | 3           | 0           | -5         | 19.65        | 3.47    | -1.06   | 11.49   | -0.15      | -2.72      | -2.00      | 3.08        | 2.24     |
| 2945   | 3           | 0           | 0          | 19.58        | 3.38    | 1.78    | 11.49   | 0.40       | -3.04      | -2.74      | 3.08        | 2.24     |
| 2949   | 3           | 0           | 5          | 19.62        | 4.03    | 5.75    | 11.49   | 1.05       | -1.54      | -5.08      | 3.05        | 2.27     |
| 2952   | 3           | 0           | 10         | 19.71        | 6.41    | 11.84   | 11.49   | 1.09       | 2.02       | -9.43      | 2.91        | 2.41     |
| 2957   | 3           | 0           | 15         | 19.62        | 14.95   | 28.88   | 11.49   | -3.45      | 15.86      | -17.67     | 2.31        | 3.01     |

\* Indicates model was close to heave stop

TABLE 5.224.2 - STABILITY DATA IN WIND AXES WITHOUT AIR TARES

20 deg Deadrise, L/R = 0.234, Cv = 4

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 2988 | 3           | 10          | -15        | 19.69        | 6.55    | -10.08  | 11.49   | -0.34      | 2.27       | 3.13       | 3.17        | 2.09     |
| 2983 | 3           | 10          | -10        | 19.69        | 6.65    | -6.48   | 11.49   | -0.63      | 1.02       | -3.57      | 2.73        | 2.53     |
| 2979 | 3           | 10          | -5         | 19.60        | 3.79    | -0.00   | 11.49   | -0.91      | -2.79      | -3.11      | 3.06        | 2.20     |
| 2975 | 3           | 10          | 0          | 19.56        | 3.12    | 2.44    | 11.49   | -0.05      | -5.78      | -3.26      | 3.33        | 1.93     |
| 2992 | 3           | 10          | 5          | 19.68        | 2.93    | 4.75    | 11.49   | 1.38       | -9.89      | -5.06      | 3.60        | 1.66     |
| 2996 | 3           | 10          | 10         | 19.67        | 3.66    | 7.19    | 11.49   | 3.16       | -12.42     | -7.94      | 3.73        | 1.53     |
| 3000 | 3           | 10          | 15         | 19.65        | 4.55    | 8.94    | 11.49   | 5.06       | -14.93     | -10.82     | 3.84        | 1.42     |
| 3045 | 3           | 20          | -15        | 19.67        | 8.19    | -12.92  | 11.49   | 2.44       | 5.54       | 2.97       | 3.00        | 2.07     |
| 3040 | 3           | 20          | -10        | 19.75        | 5.95    | -7.03   | 11.49   | 0.91       | 6.16       | -0.75      | 2.86        | 2.21     |
| 3041 | 3           | 20          | -10        | 19.64        | 5.97    | -6.96   | 11.49   | 0.85       | 6.04       | -0.62      | 2.86        | 2.21     |
| 3036 | 3           | 20          | -5         | 19.71        | 4.40    | 1.26    | 11.49   | -0.88      | -2.60      | -3.22      | 3.06        | 2.01     |
| 3006 | 3           | 20          | 0          | 19.66        | 3.32    | 4.16    | 11.49   | -0.53      | -6.15      | -3.90      | 3.36        | 1.71     |
| 3010 | 3           | 20          | 5          | 19.65        | 2.81    | 4.93    | 11.49   | 0.48       | -10.14     | -5.43      | 3.83        | 1.24     |
| 3027 | 3           | 20          | 10         | 19.52        | 2.90    | 5.65    | 11.49   | 1.72       | -12.62     | -6.98      | 4.06        | 1.01     |
| 3028 | 3           | 20          | 10         | 19.66        | 2.78    | 5.51    | 11.49   | 1.72       | -12.67     | -6.84      | 4.09        | 0.98     |
| 3032 | 3           | 20          | 15         | 19.67        | 3.21    | 6.14    | 11.49   | 3.27       | -14.72     | -8.40      | 4.23        | 0.84     |
| 3201 | 6           | -10         | -15        | 19.64        | 2.54    | -2.66   | 11.49   | -3.86      | -18.08     | 5.00       | 5.05        | 1.37     |
| 3197 | 6           | -10         | -10        | 19.65        | 2.39    | -1.51   | 11.49   | -2.03      | -17.10     | 3.01       | 4.89        | 1.53     |
| 3193 | 6           | -10         | -5         | 19.63        | 2.00    | -0.15   | 11.49   | -0.20      | -14.73     | 0.85       | 4.75        | 1.67     |
| 3189 | 6           | -10         | 0          | 19.64        | 2.59    | 2.15    | 11.49   | 1.15       | -11.38     | -2.40      | 4.47        | 1.95     |
| 3205 | 6           | -10         | 5          | 19.65        | 3.72    | 6.87    | 11.49   | 1.72       | -9.04      | -8.53      | 4.25        | 2.17     |
| 3209 | 6           | -10         | 10         | 19.67        | 5.96    | 14.22   | 11.49   | 1.03       | -5.17      | -17.49     | 4.00        | 2.42     |
| 3109 | 6           | 0           | -15        | 19.63        | 2.84    | -2.49   | 11.49   | -4.23      | -15.57     | 3.92       | 4.83        | 1.65     |
| 3105 | 6           | 0           | -10        | 19.62        | 2.09    | -0.96   | 11.49   | -2.72      | -16.65     | 1.87       | 4.90        | 1.58     |
| 3100 | 6           | 0           | -5         | 19.63        | 1.85    | 0.78    | 11.49   | -1.00      | -17.11     | -0.54      | 4.93        | 1.55     |
| 3083 | 6           | 0           | 0          | 19.62        | 1.91    | 2.50    | 11.49   | 0.73       | -16.93     | -2.85      | 4.92        | 1.56     |
| 3087 | 6           | 0           | 5          | 19.63        | 2.34    | 4.03    | 11.49   | 2.42       | -16.44     | -4.99      | 4.86        | 1.62     |
| 3092 | 6           | 0           | 10         | 19.62        | 3.29    | 6.07    | 11.49   | 3.98       | -15.07     | -7.88      | 4.76        | 1.72     |
| 3096 | 6           | 0           | 15         | 19.62        | 2.65    | 4.62    | 11.49   | 6.13       | -19.78     | -7.44      | 5.39        | 1.09     |
| 3153 | 6           | 10          | -15        | 19.63        | 4.55    | -4.41   | 11.49   | -2.81      | -8.90      | 5.31       | 4.19        | 2.23     |
| 3149 | 6           | 10          | -10        | 19.59        | 2.50    | -0.10   | 11.49   | -2.67      | -12.12     | 0.36       | 4.56        | 1.86     |
| 3145 | 6           | 10          | -5         | 19.57        | 2.01    | 1.56    | 11.49   | -1.56      | -15.90     | -1.72      | 4.85        | 1.57     |
| 3128 | 6           | 10          | 0          | 19.59        | 1.83    | 2.99    | 11.49   | -0.09      | -17.83     | -3.77      | 4.97        | 1.45     |
| 3132 | 6           | 10          | 5          | 19.59        | 2.17    | 4.16    | 11.49   | 1.51       | -18.89     | -5.96      | 5.05        | 1.37     |
| 3137 | 6           | 10          | 10         | 19.61        | 2.50    | 5.01    | 11.49   | 3.14       | -18.59     | -7.51      | 5.14        | 1.28     |
| 3141 | 6           | 10          | 15         | 19.59        | 3.35    | 6.00    | 11.49   | 5.13       | -19.93     | -9.62      | 5.18        | 1.24     |
| 3171 | 6           | 20          | -15        | 19.59        | 7.46    | -12.39  | 11.49   | -0.69      | -5.57      | 9.94       | 3.55        | 2.68     |
| 3167 | 6           | 20          | -10        | 19.61        | 3.51    | -1.24   | 11.49   | -2.16      | -9.37      | 1.76       | 4.20        | 2.03     |
| 3163 | 6           | 20          | -5         | 19.58        | 2.50    | 3.33    | 11.49   | -1.98      | -12.09     | -3.66      | 4.56        | 1.67     |
| 3159 | 6           | 20          | 0          | 19.60        | 2.25    | 4.85    | 11.49   | -1.00      | -15.08     | -6.00      | 4.89        | 1.34     |
| 3175 | 6           | 20          | 5          | 19.61        | 2.06    | 3.46    | 11.49   | 0.74       | -17.85     | -4.87      | 5.28        | 0.95     |
| 3179 | 6           | 20          | 10         | 19.62        | 2.45    | 3.87    | 11.49   | 2.46       | -19.36     | -5.93      | 5.40        | 0.83     |
| 3183 | 6           | 20          | 15         | 19.65        | 2.95    | 4.17    | 11.49   | 4.29       | -19.91     | -6.88      | 5.47        | 0.76     |

\* Indicates model was close to heave stop

TABLE 6.100.1 - STABILITY DATA IN BODY AXES AT PIVOT

10 deg Deadrise, L/R = 0.000, Cv = 0

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 2112 | -2          | -10         | 0          | -0.44   | 1.97    | -11.31  | 0.58       | 1.02       | 0.16       |
| 2116 | -2          | -10         | 5          | -0.44   | 1.95    | -11.31  | 0.59       | 1.01       | 0.18       |
| 2120 | -2          | -10         | 10         | -0.43   | 1.95    | -11.31  | 0.59       | 0.99       | 0.14       |
| 2122 | -2          | -10         | 15         | -0.44   | 1.91    | -11.32  | 0.55       | 1.04       | 0.15       |
| 2059 | -2          | 0           | 0          | -0.44   | -0.07   | -11.48  | 0.02       | 1.44       | 0.01       |
| 2065 | -2          | 0           | 5          | -0.45   | -0.08   | -11.48  | -0.01      | 1.40       | 0.02       |
| 2069 | -2          | 0           | 10         | -0.44   | -0.06   | -11.48  | 0.02       | 1.34       | -0.01      |
| 2070 | -2          | 0           | 15         | -0.44   | -0.08   | -11.48  | -0.01      | 1.35       | 0.00       |
| 2074 | -2          | 10          | 0          | -0.44   | -2.04   | -11.30  | -0.54      | 0.85       | -0.10      |
| 2078 | -2          | 10          | 5          | -0.44   | -2.02   | -11.30  | -0.52      | 0.87       | -0.13      |
| 2081 | -2          | 10          | 10         | -0.41   | -2.07   | -11.29  | -0.60      | 0.84       | -0.13      |
| 2083 | -2          | 10          | 15         | -0.42   | -2.07   | -11.29  | -0.60      | 0.85       | -0.15      |
| 2090 | -2          | 20          | 0          | -0.40   | -3.94   | -10.79  | -0.70      | 0.26       | -0.04      |
| 2094 | -2          | 20          | 5          | -0.43   | -4.01   | -10.76  | -0.79      | 0.34       | -0.08      |
| 2098 | -2          | 20          | 10         | -0.45   | -4.01   | -10.76  | -0.75      | 0.31       | -0.08      |
| 2108 | -2          | 20          | 12         | -0.44   | -3.99   | -10.77  | -0.74      | 0.31       | -0.08      |
| 2101 | -2          | 20          | 15         | -0.43   | -3.99   | -10.77  | -0.76      | 0.28       | -0.07      |
| 1829 | 0           | -10         | 0          | 0.00    | 1.98    | -11.32  | 0.58       | -3.35      | -0.57      |
| 1833 | 0           | -10         | 5          | 0.01    | 1.99    | -11.32  | 0.58       | -3.37      | -0.57      |
| 1837 | 0           | -10         | 10         | 0.00    | 1.99    | -11.32  | 0.57       | -3.30      | -0.57      |
| 1843 | 0           | -10         | 15         | -0.00   | 1.99    | -11.32  | 0.57       | -3.37      | -0.58      |
| 1760 | 0           | 0           | 0          | 0.01    | 0.00    | -11.49  | -0.03      | -3.71      | 0.01       |
| 1764 | 0           | 0           | 5          | 0.02    | -0.02   | -11.49  | -0.05      | -3.72      | 0.01       |
| 1768 | 0           | 0           | 10         | 0.01    | -0.02   | -11.49  | -0.04      | -3.69      | 0.01       |
| 1773 | 0           | 0           | 15         | 0.00    | 0.01    | -11.49  | -0.01      | -3.69      | 0.01       |
| 1779 | 0           | 10          | 0          | 0.01    | -1.99   | -11.32  | -0.61      | -3.72      | 0.71       |
| 1783 | 0           | 10          | 5          | -0.02   | -2.01   | -11.31  | -0.65      | -3.67      | 0.66       |
| 1787 | 0           | 10          | 10         | 0.00    | -2.01   | -11.31  | -0.67      | -3.64      | 0.65       |
| 1792 | 0           | 10          | 15         | -0.00   | -2.01   | -11.31  | -0.67      | -3.68      | 0.65       |
| 1809 | 0           | 21          | 0          | 0.11    | -4.08   | -10.74  | -0.77      | -3.47      | 1.42       |
| 1814 | 0           | 21          | 5          | -0.00   | -4.11   | -10.73  | -0.79      | -3.41      | 1.33       |
| 1819 | 0           | 21          | 10         | -0.02   | -4.12   | -10.73  | -0.79      | -3.37      | 1.29       |
| 1823 | 0           | 21          | 15         | -0.02   | -4.15   | -10.71  | -0.85      | -3.29      | 1.24       |
| 1918 | 3           | -11         | 0          | 0.69    | 2.23    | -11.25  | 0.45       | -8.73      | -1.64      |
| 1922 | 3           | -11         | 5          | 0.63    | 2.27    | -11.25  | 0.48       | -8.71      | -1.63      |
| 1926 | 3           | -11         | 10         | 0.63    | 2.28    | -11.24  | 0.48       | -8.77      | -1.65      |
| 1930 | 3           | -11         | 15         | 0.65    | 2.25    | -11.25  | 0.46       | -8.81      | -1.65      |
| 1850 | 3           | 0           | 0          | 0.61    | 0.04    | -11.47  | -0.03      | -9.53      | 0.05       |
| 1854 | 3           | 0           | 0          | 0.61    | 0.03    | -11.47  | -0.03      | -9.49      | 0.04       |
| 1856 | 3           | 0           | 5          | 0.61    | 0.01    | -11.47  | -0.06      | -9.46      | 0.04       |
| 1860 | 3           | 0           | 10         | 0.62    | 0.03    | -11.47  | -0.06      | -9.43      | 0.03       |
| 1864 | 3           | 0           | 15         | 0.62    | 0.01    | -11.47  | -0.08      | -9.40      | 0.04       |

\* Indicates model was close to heave stop

TABLE 6.100.2 - STABILITY DATA IN BODY AXES AT PIVOT

10 deg Deadrise, L/R = 0.000, Cv = 0

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 1880 | 3           | 10          | 0          | 0.62    | -1.92   | -11.31  | -0.45      | -8.95      | 1.61       |
| 1884 | 3           | 10          | 5          | 0.63    | -2.03   | -11.29  | -0.58      | -8.93      | 1.60       |
| 1888 | 3           | 10          | 10         | 0.63    | -1.93   | -11.31  | -0.47      | -9.02      | 1.62       |
| 1894 | 3           | 10          | 15         | 0.62    | -1.99   | -11.30  | -0.52      | -8.86      | 1.56       |
| 1900 | 3           | 21          | 0          | 0.62    | -4.09   | -10.72  | -0.76      | -7.98      | 3.07       |
| 1904 | 3           | 21          | 5          | 0.62    | -4.09   | -10.72  | -0.75      | -8.01      | 3.04       |
| 1908 | 3           | 21          | 10         | 0.62    | -4.10   | -10.71  | -0.75      | -7.98      | 3.04       |
| 1912 | 3           | 21          | 15         | 0.61    | -4.05   | -10.74  | -0.70      | -8.02      | 3.07       |
| 2022 | 6           | -10         | 0          | 1.22    | 2.04    | -11.24  | 0.28       | -11.84     | -1.98      |
| 2026 | 6           | -10         | 5          | 1.20    | 2.00    | -11.25  | 0.24       | -11.86     | -2.02      |
| 2030 | 6           | -10         | 10         | 1.20    | 1.97    | -11.26  | 0.22       | -11.91     | -2.05      |
| 2034 | 6           | -10         | 15         | 1.22    | 1.97    | -11.25  | 0.23       | -11.83     | -2.03      |
| 1963 | 6           | 0           | 0          | 1.19    | 0.03    | -11.43  | -0.05      | -12.18     | 0.08       |
| 1967 | 6           | 0           | 5          | 1.20    | 0.01    | -11.43  | -0.07      | -12.28     | 0.06       |
| 1972 | 6           | 0           | 10         | 1.21    | -0.01   | -11.43  | -0.07      | -12.20     | 0.04       |
| 1976 | 6           | 0           | 15         | 1.20    | -0.02   | -11.43  | -0.08      | -12.19     | 0.02       |
| 1982 | 6           | 10          | 0          | 1.19    | -1.98   | -11.25  | -0.36      | -11.78     | 2.10       |
| 1986 | 6           | 10          | 5          | 1.20    | -1.98   | -11.25  | -0.38      | -12.00     | 2.12       |
| 1990 | 6           | 10          | 10         | 1.21    | -2.00   | -11.25  | -0.40      | -11.93     | 2.11       |
| 1993 | 6           | 10          | 10         | 1.21    | -1.99   | -11.25  | -0.40      | -11.90     | 2.06       |
| 1995 | 6           | 10          | 15         | 1.21    | -1.99   | -11.25  | -0.41      | -11.95     | 2.09       |
| 2002 | 6           | 20          | 0          | 1.23    | -3.87   | -10.75  | -0.55      | -10.97     | 4.00       |
| 2007 | 6           | 20          | 5          | 1.18    | -3.88   | -10.75  | -0.57      | -10.93     | 3.97       |
| 2011 | 6           | 20          | 10         | 1.19    | -3.88   | -10.75  | -0.57      | -10.98     | 4.00       |
| 2015 | 6           | 20          | 15         | 1.19    | -3.88   | -10.75  | -0.57      | -11.01     | 4.00       |

\* Indicates model was close to heave stop

TABLE 6.101.1 - STABILITY DATA IN BODY AXES AT PIVOT

10 deg Deadrise, L/R = 0.000, Cv = 1.5

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|--------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 2113   | -2          | -10         | 0          | -2.05   | 2.11    | -11.23  | 0.32       | 4.28       | 1.05       |
| 2117   | -2          | -10         | 5          | -2.24   | 3.27    | -11.02  | 0.19       | 4.19       | 2.78       |
| 2121   | -2          | -10         | 10         | -2.84   | 5.60    | -10.59  | -0.05      | 4.58       | 5.77       |
| 2123 * | -2          | -10         | 15         | -3.21   | 8.56    | -10.05  | -0.66      | 5.11       | 8.98       |
| 2060   | -2          | 0           | 0          | -2.10   | -0.02   | -11.42  | 0.18       | 4.91       | 0.04       |
| 2063   | -2          | 0           | 0          | -2.10   | -0.03   | -11.42  | 0.21       | 4.91       | 0.06       |
| 2066   | -2          | 0           | 5          | -2.24   | 0.96    | -11.42  | -0.07      | 5.15       | 1.47       |
| 2068   | -2          | 0           | 10         | -2.56   | 2.60    | -11.41  | -0.12      | 5.42       | 3.65       |
| 2071 * | -2          | 0           | 15         | -3.13   | 5.37    | -11.39  | -0.48      | 5.96       | 7.08       |
| 2075   | -2          | 10          | 0          | -2.01   | -2.18   | -11.22  | -0.19      | 4.14       | -1.03      |
| 2079   | -2          | 10          | 5          | -2.03   | -1.35   | -11.36  | -0.35      | 4.85       | 0.18       |
| 2082   | -2          | 10          | 10         | -2.22   | -0.09   | -11.58  | -0.69      | 5.58       | 1.72       |
| 2084   | -2          | 10          | 15         | -2.72   | 2.25    | -11.97  | -0.94      | 6.57       | 4.44       |
| 2091   | -2          | 20          | 0          | -1.89   | -4.08   | -10.68  | -0.31      | 3.18       | -1.42      |
| 2095   | -2          | 20          | 5          | -2.01   | -3.32   | -10.95  | -0.43      | 4.58       | -0.47      |
| 2099   | -2          | 20          | 10         | -2.21   | -2.09   | -11.39  | -0.45      | 5.82       | 0.57       |
| 2102   | -2          | 20          | 15         | -2.20   | -0.06   | -12.13  | -0.40      | 7.39       | 2.03       |
| 1830   | 0           | -10         | 0          | -1.25   | 1.91    | -11.33  | 0.51       | 0.75       | 0.02       |
| 1834   | 0           | -10         | 5          | -1.40   | 2.70    | -11.19  | 0.37       | 0.41       | 0.74       |
| 1840   | 0           | -10         | 10         | -1.73   | 4.25    | -10.92  | -0.06      | 0.70       | 2.15       |
| 1844   | 0           | -10         | 15         | -2.17   | 7.20    | -10.40  | -1.07      | 1.48       | 4.40       |
| 1761   | 0           | 0           | 0          | -1.25   | -0.02   | -11.49  | 0.07       | 0.92       | -0.01      |
| 1765   | 0           | 0           | 5          | -1.31   | 0.43    | -11.49  | 0.01       | 0.97       | 0.48       |
| 1769   | 0           | 0           | 10         | -1.51   | 1.25    | -11.49  | -0.19      | 1.21       | 1.26       |
| 1774   | 0           | 0           | 15         | -1.95   | 3.26    | -11.49  | -0.54      | 1.98       | 2.92       |
| 1780   | 0           | 10          | 0          | -1.30   | -1.96   | -11.32  | -0.42      | 0.66       | 0.00       |
| 1784   | 0           | 10          | 5          | -1.33   | -1.42   | -11.42  | -0.48      | 1.22       | 0.39       |
| 1788   | 0           | 10          | 10         | -1.43   | -0.69   | -11.55  | -0.49      | 1.78       | 0.84       |
| 1789   | 0           | 10          | 10         | -1.43   | -0.72   | -11.54  | -0.48      | 1.68       | 0.80       |
| 1793   | 0           | 10          | 15         | -1.67   | 0.51    | -11.76  | -0.44      | 2.92       | 1.22       |
| 1810   | 0           | 21          | 0          | -1.10   | -4.16   | -10.71  | -0.67      | -0.28      | 0.09       |
| 1815   | 0           | 21          | 5          | -1.19   | -3.43   | -10.99  | -0.79      | 0.62       | 0.46       |
| 1820   | 0           | 21          | 10         | -1.25   | -2.28   | -11.43  | -0.76      | 1.51       | 0.72       |
| 1824   | 0           | 21          | 15         | -1.44   | -0.99   | -11.93  | -0.73      | 3.19       | 0.51       |
| 1919   | 3           | -11         | 0          | -0.55   | 2.14    | -11.33  | 0.53       | -4.67      | -1.04      |
| 1923   | 3           | -11         | 5          | -0.67   | 3.00    | -11.17  | 0.51       | -4.76      | -1.20      |
| 1927   | 3           | -11         | 10         | -0.81   | 4.27    | -10.93  | 0.19       | -4.36      | -1.34      |
| 1931   | 3           | -11         | 15         | -1.05   | 6.87    | -10.44  | -0.54      | -3.33      | -1.24      |
| 1851   | 3           | 0           | 0          | -0.48   | 0.04    | -11.53  | 0.06       | -5.04      | 0.05       |
| 1855   | 3           | 0           | 0          | -0.55   | 0.04    | -11.53  | 0.02       | -5.08      | 0.05       |
| 1857   | 3           | 0           | 5          | -0.60   | 0.65    | -11.54  | 0.03       | -4.90      | -0.23      |
| 1861   | 3           | 0           | 10         | -0.70   | 1.52    | -11.54  | 0.01       | -4.28      | -0.60      |
| 1865   | 3           | 0           | 15         | -0.84   | 2.80    | -11.55  | -0.13      | -3.07      | -0.98      |

\* Indicates model was close to heave stop

TABLE 6.101.2 - STABILITY DATA IN BODY AXES AT PIVOT

10 deg Deadrise, L/R = 0.000, Cv = 1.5

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 1881 | 3           | 10          | 0          | -0.60   | -1.93   | -11.37  | -0.50      | -4.88      | 1.06       |
| 1885 | 3           | 10          | 5          | -0.56   | -1.19   | -11.50  | -0.55      | -4.61      | 0.75       |
| 1889 | 3           | 10          | 10         | -0.58   | -0.25   | -11.67  | -0.36      | -4.19      | 0.21       |
| 1895 | 3           | 10          | 15         | -0.69   | 0.70    | -11.84  | -0.22      | -2.85      | -0.64      |
| 1901 | 3           | 21          | 0          | -0.68   | -4.08   | -10.80  | -0.79      | -4.60      | 2.10       |
| 1905 | 3           | 21          | 5          | -0.72   | -2.97   | -11.22  | -0.90      | -4.35      | 1.58       |
| 1909 | 3           | 21          | 10         | -0.73   | -1.72   | -11.71  | -0.93      | -4.14      | 0.86       |
| 1913 | 3           | 21          | 15         | -0.69   | -0.71   | -12.09  | -0.66      | -3.19      | -0.09      |
| 2023 | 6           | -10         | 0          | -0.43   | 1.79    | -11.46  | 0.43       | -8.47      | -1.46      |
| 2027 | 6           | -10         | 5          | -0.45   | 2.82    | -11.28  | 0.54       | -8.40      | -2.41      |
| 2031 | 6           | -10         | 10         | -0.51   | 4.17    | -11.05  | 0.57       | -7.96      | -3.44      |
| 2035 | 6           | -10         | 15         | -0.55   | 6.32    | -10.68  | 0.52       | -7.11      | -4.93      |
| 1964 | 6           | 0           | 0          | -0.27   | 0.00    | -11.58  | 0.05       | -8.57      | 0.10       |
| 1969 | 6           | 0           | 5          | -0.27   | 0.95    | -11.58  | 0.31       | -8.46      | -0.93      |
| 1973 | 6           | 0           | 10         | -0.35   | 1.98    | -11.59  | 0.68       | -8.09      | -1.95      |
| 1977 | 6           | 0           | 15         | -0.40   | 3.22    | -11.60  | 0.69       | -7.50      | -3.14      |
| 1983 | 6           | 10          | 0          | -0.42   | -1.69   | -11.48  | 0.09       | -8.39      | 1.64       |
| 1987 | 6           | 10          | 5          | -0.37   | -0.64   | -11.66  | 0.24       | -8.44      | 0.63       |
| 1991 | 6           | 10          | 10         | -0.30   | 0.42    | -11.84  | 0.51       | -7.96      | -0.70      |
| 1996 | 6           | 10          | 15         | -0.29   | 1.15    | -11.96  | 0.36       | -7.66      | -1.54      |
| 2003 | 6           | 20          | 0          | -0.44   | -3.50   | -11.07  | -0.18      | -8.06      | 3.13       |
| 2008 | 6           | 20          | 5          | -0.51   | -2.18   | -11.56  | 0.03       | -8.13      | 1.98       |
| 2012 | 6           | 20          | 10         | -0.47   | -0.80   | -12.06  | 0.12       | -8.05      | 0.41       |
| 2016 | 6           | 20          | 15         | -0.45   | -0.22   | -12.26  | 0.15       | -7.68      | -0.33      |

\* Indicates model was close to heave stop

TABLE 6.103.1 - STABILITY DATA IN BODY AXES AT PIVOT

10 deg Deadrise, L/R = 0.000, Cv = 3

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|--------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 2114   | -2          | -10         | 0          | -7.22   | 3.89    | -10.73  | 0.27       | 0.73       | 2.25       |
| 2118   | -2          | -10         | 5          | -8.29   | 10.85   | -9.47   | -0.51      | -1.41      | 11.04      |
| 2064   | -2          | 0           | 0          | -6.94   | 0.16    | -11.25  | 0.09       | 0.37       | 0.19       |
| 2067   | -2          | 0           | 5          | -7.81   | 6.55    | -11.22  | -0.20      | 0.27       | 8.02       |
| 2076   | -2          | 10          | 0          | -6.74   | -3.44   | -10.83  | -0.29      | 0.92       | -1.85      |
| 2080   | -2          | 10          | 5          | -7.46   | 1.31    | -11.64  | -0.99      | 3.44       | 4.27       |
| 2092   | -2          | 20          | 0          | -6.01   | -4.79   | -10.27  | -0.29      | 2.21       | -0.99      |
| 2096   | -2          | 20          | 5          | -5.72   | -0.59   | -11.81  | -0.24      | 6.72       | 3.47       |
| 2100   | -2          | 20          | 10         | -6.38   | 4.65    | -13.69  | -0.55      | 12.83      | 7.16       |
| 2103   | -2          | 20          | 15         | -5.33   | 2.49    | -12.94  | 1.41       | 20.20      | 1.70       |
| 1831   | 0           | -10         | 0          | -3.73   | 1.91    | -11.33  | 0.48       | 4.17       | -0.99      |
| 1835   | 0           | -10         | 5          | -4.99   | 5.79    | -10.65  | -0.09      | 4.67       | 0.99       |
| 1841   | 0           | -10         | 10         | -6.85   | 15.48   | -8.94   | -1.87      | 5.67       | 5.85       |
| 1845   | 0           | -10         | 15         | -7.02   | 26.27   | -7.03   | -4.46      | 7.20       | 8.96       |
| 1762   | 0           | 0           | 0          | -3.55   | 0.01    | -11.49  | 0.10       | 4.76       | -0.13      |
| 1766   | 0           | 0           | 5          | -4.56   | 2.54    | -11.49  | 0.08       | 6.17       | -0.76      |
| 1770 * | 0           | 0           | 10         | -7.39   | 11.89   | -11.49  | -1.12      | 9.29       | 1.89       |
| 1775 * | 0           | 0           | 15         | -7.80   | 19.75   | -11.49  | -2.63      | 12.90      | 4.23       |
| 1781   | 0           | 10          | 0          | -3.64   | -1.90   | -11.33  | -0.36      | 4.18       | 0.48       |
| 1785   | 0           | 10          | 5          | -3.85   | 0.25    | -11.71  | -0.05      | 7.85       | 0.06       |
| 1790   | 0           | 10          | 10         | -3.96   | 2.00    | -12.02  | 0.29       | 10.74      | -0.20      |
| 1794   | 0           | 10          | 15         | -3.73   | 3.41    | -12.27  | 0.90       | 11.31      | -0.25      |
| 1811   | 0           | 21          | 0          | -3.58   | -4.09   | -10.74  | -0.52      | 1.21       | 0.44       |
| 1816   | 0           | 21          | 5          | -3.60   | -1.12   | -11.88  | -0.62      | 5.73       | -0.13      |
| 1821   | 0           | 21          | 10         | -2.78   | -0.47   | -12.13  | -0.25      | 7.46       | -1.01      |
| 1825   | 0           | 21          | 15         | -2.19   | -0.61   | -12.07  | -0.67      | 1.84       | -1.28      |
| 1920   | 3           | -11         | 0          | -1.72   | 1.48    | -11.53  | 0.63       | -2.58      | -0.58      |
| 1924   | 3           | -11         | 5          | -2.23   | 4.53    | -10.96  | 0.56       | -2.21      | -2.27      |
| 1928   | 3           | -11         | 10         | -3.30   | 10.77   | -9.80   | -0.23      | 0.26       | -4.11      |
| 1933   | 3           | -11         | 15         | -5.31   | 28.55   | -6.46   | -2.90      | 6.47       | -1.72      |
| 1852   | 3           | 0           | 0          | -1.25   | -0.01   | -11.57  | 0.00       | -2.48      | 0.12       |
| 1858   | 3           | 0           | 5          | -1.56   | 1.25    | -11.59  | 0.32       | -2.62      | -0.88      |
| 1862   | 3           | 0           | 10         | -1.85   | 3.35    | -11.60  | 0.46       | -1.93      | -2.53      |
| 1866   | 3           | 0           | 15         | -2.44   | 7.34    | -11.63  | 0.44       | 0.27       | -5.43      |

\* Indicates model was close to heave stop

TABLE 6.103.2 - STABILITY DATA IN BODY AXES AT PIVOT

10 deg Deadrise, L/R = 0.000, Cv = 3

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 1882 | 3           | 10          | 0          | -1.65   | -1.40   | -11.52  | -0.63      | -2.89      | 0.85       |
| 1886 | 3           | 10          | 5          | -1.32   | -0.20   | -11.72  | -0.32      | -3.28      | -0.18      |
| 1890 | 3           | 10          | 10         | -1.03   | 0.39    | -11.81  | 0.08       | -6.41      | -0.52      |
| 1891 | 3           | 10          | 10         | -1.02   | 0.35    | -11.80  | 0.06       | -6.44      | -0.53      |
| 1896 | 3           | 10          | 15         | -0.76   | 0.82    | -11.87  | 0.23       | -10.36     | -1.07      |
| 1902 | 3           | 21          | 0          | -2.16   | -3.61   | -11.06  | -0.92      | -2.67      | 2.00       |
| 1906 | 3           | 21          | 5          | -1.57   | -0.86   | -12.08  | -0.92      | -3.45      | -0.17      |
| 1910 | 3           | 21          | 10         | -0.92   | -0.75   | -12.09  | -0.77      | -7.32      | -0.17      |
| 1914 | 3           | 21          | 15         | -0.54   | -0.85   | -12.03  | -0.95      | -10.81     | 0.33       |
| 2024 | 6           | -10         | 0          | -0.81   | 0.65    | -11.70  | 0.24       | -10.29     | -0.15      |
| 2028 | 6           | -10         | 5          | -1.20   | 2.25    | -11.46  | 0.62       | -8.75      | -2.06      |
| 2032 | 6           | -10         | 10         | -1.48   | 5.62    | -10.90  | 0.84       | -7.00      | -5.54      |
| 2036 | 6           | -10         | 15         | -1.84   | 12.45   | -9.73   | 0.77       | -3.73      | -11.51     |
| 1965 | 6           | 0           | 0          | -0.44   | 0.04    | -11.60  | 0.00       | -11.54     | 0.14       |
| 1970 | 6           | 0           | 5          | -0.31   | 0.43    | -11.59  | 0.30       | -11.56     | -0.27      |
| 1974 | 6           | 0           | 10         | -0.48   | 1.02    | -11.60  | 0.75       | -11.25     | -1.02      |
| 1978 | 6           | 0           | 15         | -0.71   | 2.20    | -11.63  | 1.08       | -11.25     | -2.65      |
| 1984 | 6           | 10          | 0          | -0.77   | -0.48   | -11.73  | 0.12       | -10.82     | 0.41       |
| 1988 | 6           | 10          | 5          | -0.49   | -0.15   | -11.76  | 0.40       | -12.93     | 0.08       |
| 1992 | 6           | 10          | 10         | -0.31   | 0.13    | -11.79  | 0.49       | -14.66     | -0.20      |
| 1997 | 6           | 10          | 15         | -0.16   | 0.27    | -11.80  | 0.45       | -15.48     | -0.37      |
| 2004 | 6           | 20          | 0          | -1.00   | -1.79   | -11.76  | -0.51      | -9.08      | 1.62       |
| 2009 | 6           | 20          | 5          | -0.72   | 0.28    | -12.48  | -0.42      | -11.91     | -0.76      |
| 2013 | 6           | 20          | 10         | -0.38   | -0.90   | -12.01  | -0.38      | -13.87     | 0.78       |
| 2017 | 6           | 20          | 15         | -0.30   | -1.02   | -11.96  | -0.40      | -15.18     | 1.13       |

\* Indicates model was close to heave stop



TABLE 6.104.1 - STABILITY DATA IN BODY AXES AT PIVOT

10 deg Deadrise, L/R = 0.000, Cv = 4

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|--------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 2115   | -2          | -10         | 0          | -13.25  | 6.40    | -10.08  | 1.11       | -4.29      | 4.03       |
| 2077   | -2          | 10          | 0          | -13.19  | -5.56   | -10.23  | -0.52      | -4.35      | -3.28      |
| 2093 * | -2          | 20          | 0          | -13.60  | -9.96   | -8.10   | -0.71      | -1.98      | -9.69      |
| 2097 * | -2          | 20          | 5          | -13.54  | 0.55    | -11.93  | -0.61      | 7.82       | 3.91       |
| 2105   | -2          | 20          | 10         | -11.27  | 4.08    | -13.30  | 1.73       | 29.32      | 2.90       |
| 2107   | -2          | 20          | 10         | -13.46  | 15.74   | -17.46  | 0.22       | 16.02      | 16.86      |
| 2109   | -2          | 20          | 12         | -6.82   | 2.07    | -12.74  | 1.15       | 23.21      | 0.14       |
| 2104   | -2          | 20          | 15         | -4.62   | 0.91    | -12.39  | 0.62       | 15.58      | -1.29      |
| 1832   | 0           | -10         | 0          | -6.88   | 1.34    | -11.43  | 0.32       | 10.11      | -2.05      |
| 1836   | 0           | -10         | 5          | -10.59  | 10.26   | -9.86   | -0.57      | 10.80      | 4.79       |
| 1842   | 0           | -10         | 10         | -11.42  | 24.57   | -7.33   | -3.47      | 11.77      | 11.05      |
| 1846   | 0           | -10         | 15         | -11.51  | 44.96   | -3.74   | -8.08      | 13.36      | 15.84      |
| 1763   | 0           | 0           | 0          | -6.51   | -0.07   | -11.49  | 0.15       | 12.36      | -0.28      |
| 1767   | 0           | 0           | 5          | -8.75   | 3.31    | -11.49  | 0.26       | 15.14      | -0.74      |
| 1772 * | 0           | 0           | 10         | -12.30  | 17.25   | -11.49  | -1.70      | 18.65      | 5.03       |
| 1776 * | 0           | 0           | 15         | -13.34  | 33.24   | -11.49  | -4.00      | 23.55      | 7.42       |
| 1782   | 0           | 10          | 0          | -6.76   | -1.28   | -11.44  | -0.06      | 10.79      | 0.30       |
| 1786   | 0           | 10          | 5          | -5.66   | 0.61    | -11.77  | 0.37       | 14.93      | -0.27      |
| 1791   | 0           | 10          | 10         | -4.40   | 1.51    | -11.93  | 0.80       | 11.47      | -0.17      |
| 1795   | 0           | 10          | 15         | -3.19   | 2.39    | -12.09  | 0.77       | 4.90       | -0.82      |
| 1812   | 0           | 21          | 0          | -6.61   | -3.71   | -10.88  | -0.37      | 5.60       | 0.09       |
| 1818   | 0           | 21          | 5          | -5.24   | -0.85   | -11.98  | -0.31      | 12.52      | -1.54      |
| 1822   | 0           | 21          | 10         | -3.64   | -0.86   | -11.98  | -0.65      | 5.01       | -1.69      |
| 1826   | 0           | 21          | 15         | -1.89   | -1.83   | -11.61  | -1.42      | -2.72      | 0.17       |
| 1921   | 3           | -11         | 0          | -2.27   | 0.96    | -11.66  | 0.59       | -2.52      | 0.18       |
| 1925   | 3           | -11         | 5          | -3.54   | 4.88    | -10.96  | 0.70       | -0.03      | -2.47      |
| 1929   | 3           | -11         | 10         | -5.37   | 15.59   | -8.98   | -0.41      | 4.89       | -5.69      |
| 1934   | 3           | -11         | 15         | -8.45   | 47.64   | -2.91   | -5.02      | 15.98      | -2.06      |
| 1853   | 3           | 0           | 0          | -1.80   | 0.06    | -11.60  | -0.03      | -4.39      | 0.14       |
| 1859   | 3           | 0           | 5          | -2.00   | 0.87    | -11.61  | 0.42       | -4.29      | -0.37      |
| 1863   | 3           | 0           | 10         | -2.28   | 2.81    | -11.63  | 0.80       | -4.32      | -2.40      |
| 1867   | 3           | 0           | 15         | -2.75   | 6.42    | -11.65  | 1.10       | -2.32      | -5.97      |

\* Indicates model was close to heave stop

TABLE 6.104.2 - STABILITY DATA IN BODY AXES AT PIVOT

10 deg Deadrise, L/R = 0.000, Cv = 4

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 1883 | 3           | 10          | 0          | -2.18   | -0.79   | -11.66  | -0.70      | -3.11      | 0.04       |
| 1887 | 3           | 10          | 5          | -1.51   | -0.02   | -11.76  | -0.31      | -8.53      | -0.28      |
| 1893 | 3           | 10          | 10         | -0.94   | 0.32    | -11.79  | -0.28      | -11.76     | -0.53      |
| 1897 | 3           | 10          | 15         | -0.72   | 0.45    | -11.80  | -0.36      | -13.37     | -0.65      |
| 1903 | 3           | 21          | 0          | -3.23   | -2.96   | -11.37  | -1.09      | -1.50      | 1.71       |
| 1907 | 3           | 21          | 5          | -1.66   | -1.08   | -12.00  | -1.05      | -6.43      | 0.20       |
| 1911 | 3           | 21          | 10         | -0.89   | -1.19   | -11.92  | -1.20      | -11.30     | 1.00       |
| 1915 | 3           | 21          | 15         | -0.65   | -1.61   | -11.74  | -1.38      | -13.77     | 2.01       |
| 2025 | 6           | -10         | 0          | -0.62   | 1.14    | -11.60  | 0.46       | -14.06     | -0.84      |
| 2029 | 6           | -10         | 5          | -1.21   | 1.81    | -11.54  | 0.65       | -12.02     | -1.62      |
| 2033 | 6           | -10         | 10         | -1.80   | 5.17    | -11.01  | 1.14       | -9.07      | -5.77      |
| 2037 | 6           | -10         | 15         | -2.41   | 13.44   | -9.62   | 1.23       | -4.08      | -14.69     |
| 1966 | 6           | 0           | 0          | -0.24   | 0.19    | -11.58  | 0.03       | -16.81     | -0.03      |
| 1971 | 6           | 0           | 5          | -0.25   | 0.61    | -11.58  | 0.34       | -16.54     | -0.62      |
| 1975 | 6           | 0           | 10         | -0.28   | 1.06    | -11.58  | 0.71       | -16.51     | -1.26      |
| 1979 | 6           | 0           | 15         | -0.43   | 1.55    | -11.60  | 1.20       | -16.36     | -1.94      |
| 1985 | 6           | 10          | 0          | -0.68   | -0.84   | -11.66  | -0.18      | -14.72     | 1.13       |
| 1989 | 6           | 10          | 5          | -0.41   | -0.58   | -11.67  | -0.02      | -15.79     | 0.92       |
| 1994 | 6           | 10          | 10         | -0.27   | -0.38   | -11.69  | -0.23      | -16.58     | 0.74       |
| 1998 | 6           | 10          | 15         | -0.17   | -0.23   | -11.71  | -0.13      | -16.95     | 0.56       |
| 2005 | 6           | 20          | 0          | -1.25   | -1.18   | -12.01  | -0.67      | -11.65     | 1.02       |
| 2010 | 6           | 20          | 5          | -0.70   | -0.24   | -12.29  | -0.55      | -14.49     | 0.01       |
| 2014 | 6           | 20          | 10         | -0.33   | -1.54   | -11.77  | -1.03      | -16.26     | 2.30       |
| 2018 | 6           | 20          | 15         | -0.21   | -1.80   | -11.66  | -0.71      | -16.64     | 2.80       |

\* Indicates model was close to heave stop

TABLE 6.110.1 - STABILITY DATA IN BODY AXES AT PIVOT

10 deg Deadrise, L/R = 0.117, Cv = 0

| RUN | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|-----|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 753 | 0           | -10         | -15        | -0.01   | 2.30    | -11.26  | 0.69       | -3.32      | -0.51      |
| 749 | 0           | -10         | -10        | -0.03   | 2.12    | -11.29  | 0.57       | -3.31      | -0.58      |
| 745 | 0           | -10         | -5         | -0.03   | 2.04    | -11.31  | 0.51       | -3.32      | -0.60      |
| 732 | 0           | -10         | 0          | -0.03   | 2.12    | -11.29  | 0.60       | -3.28      | -0.56      |
| 736 | 0           | -10         | 5          | 0.00    | 2.06    | -11.30  | 0.54       | -3.34      | -0.59      |
| 740 | 0           | -10         | 10         | 0.00    | 2.01    | -11.31  | 0.45       | -3.44      | -0.54      |
| 664 | 0           | 0           | -10        | -0.05   | 0.06    | -11.49  | -0.13      | -3.62      | -0.01      |
| 660 | 0           | 0           | -5         | -0.03   | 0.05    | -11.49  | -0.10      | -3.58      | 0.02       |
| 643 | 0           | 0           | 0          | -0.06   | 0.03    | -11.49  | -0.11      | -3.56      | 0.00       |
| 645 | 0           | 0           | 0          | -0.09   | 0.05    | -11.49  | -0.08      | -3.38      | -0.01      |
| 647 | 0           | 0           | 0          | -0.06   | 0.03    | -11.49  | -0.08      | -3.37      | 0.00       |
| 648 | 0           | 0           | 0          | -0.06   | 0.05    | -11.49  | -0.06      | -3.46      | 0.01       |
| 653 | 0           | 0           | 5          | -0.03   | 0.06    | -11.49  | -0.05      | -3.59      | 0.01       |
| 656 | 0           | 0           | 10         | -0.02   | 0.05    | -11.49  | -0.07      | -3.68      | 0.02       |
| 668 | 0           | 10          | -10        | -0.04   | -1.89   | -11.33  | -0.68      | -3.42      | 0.59       |
| 689 | 0           | 10          | -10        | -0.05   | -2.00   | -11.32  | -0.84      | -3.38      | 0.62       |
| 685 | 0           | 10          | -5         | -0.03   | -1.95   | -11.32  | -0.76      | -3.40      | 0.58       |
| 672 | 0           | 10          | 5          | -0.01   | -1.94   | -11.33  | -0.75      | -3.50      | 0.60       |
| 676 | 0           | 10          | 10         | -0.00   | -1.93   | -11.33  | -0.72      | -3.58      | 0.62       |
| 681 | 0           | 10          | 15         | 0.00    | -1.93   | -11.33  | -0.73      | -3.64      | 0.63       |
| 728 | 0           | 20          | -10        | -0.05   | -4.00   | -10.77  | -1.04      | -3.21      | 1.26       |
| 724 | 0           | 20          | -5         | -0.04   | -3.85   | -10.82  | -0.91      | -3.15      | 1.13       |
| 706 | 0           | 20          | 0          | -0.03   | -3.84   | -10.83  | -0.85      | -3.26      | 1.16       |
| 707 | 0           | 20          | 0          | -0.03   | -3.84   | -10.83  | -0.86      | -3.25      | 1.16       |
| 711 | 0           | 20          | 5          | -0.04   | -3.89   | -10.81  | -0.90      | -3.26      | 1.20       |
| 715 | 0           | 20          | 10         | -0.02   | -3.85   | -10.83  | -0.87      | -3.34      | 1.23       |
| 720 | 0           | 20          | 15         | -0.00   | -3.84   | -10.83  | -0.88      | -3.36      | 1.21       |
| 883 | 3           | -10         | -15        | 0.59    | 1.99    | -11.30  | 0.36       | -8.55      | -1.55      |
| 887 | 3           | -10         | -10        | 0.63    | 2.04    | -11.29  | 0.38       | -8.73      | -1.55      |
| 891 | 3           | -10         | -5         | 0.60    | 2.02    | -11.29  | 0.37       | -8.80      | -1.56      |
| 895 | 3           | -10         | 0          | 0.58    | 1.99    | -11.30  | 0.32       | -8.73      | -1.55      |
| 899 | 3           | -10         | 5          | 0.61    | 2.06    | -11.29  | 0.39       | -8.80      | -1.56      |
| 903 | 3           | -10         | 10         | 0.59    | 2.01    | -11.30  | 0.33       | -8.81      | -1.57      |
| 907 | 3           | -10         | 15         | 0.61    | 2.02    | -11.29  | 0.33       | -8.97      | -1.58      |
| 802 | 3           | 0           | -15        | 0.59    | 0.03    | -11.47  | -0.12      | -9.19      | -0.09      |
| 798 | 3           | 0           | -10        | 0.59    | 0.05    | -11.47  | -0.11      | -9.47      | -0.08      |
| 794 | 3           | 0           | -5         | 0.58    | 0.01    | -11.48  | -0.12      | -9.28      | -0.07      |
| 759 | 3           | 0           | 0          | 0.61    | 0.06    | -11.47  | -0.10      | -9.26      | -0.04      |
| 763 | 3           | 0           | 5          | 0.62    | 0.10    | -11.47  | -0.09      | -9.35      | -0.05      |
| 767 | 3           | 0           | 10         | 0.62    | 0.02    | -11.47  | -0.07      | -9.46      | -0.06      |
| 790 | 3           | 0           | 10         | 0.60    | 0.04    | -11.47  | -0.11      | -9.40      | -0.05      |
| 771 | 3           | 0           | 15         | 0.64    | 0.04    | -11.47  | -0.13      | -9.63      | -0.06      |
| 786 | 3           | 0           | 15         | 0.61    | 0.05    | -11.47  | -0.12      | -9.34      | -0.05      |

\* Indicates model was close to heave stop

TABLE 6.110.2 - STABILITY DATA IN BODY AXES AT PIVOT

10 deg Deadrise, L/R = 0.117, Cv = 0

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 836  | 3           | 10          | -15        | 0.58    | -2.00   | -11.30  | -0.60      | -8.90      | 1.49       |
| 832  | 3           | 10          | -10        | 0.60    | -1.94   | -11.31  | -0.57      | -8.87      | 1.47       |
| 828  | 3           | 10          | -5         | 0.61    | -1.99   | -11.30  | -0.61      | -8.89      | 1.47       |
| 811  | 3           | 10          | 0          | 0.61    | -1.92   | -11.31  | -0.56      | -9.09      | 1.52       |
| 816  | 3           | 10          | 5          | 0.62    | -1.95   | -11.31  | -0.59      | -9.05      | 1.52       |
| 820  | 3           | 10          | 10         | 0.63    | -1.96   | -11.30  | -0.56      | -9.08      | 1.55       |
| 824  | 3           | 10          | 15         | 0.62    | -1.96   | -11.30  | -0.57      | -9.09      | 1.53       |
| 875  | 3           | 20          | -15        | 0.59    | -3.89   | -10.80  | -0.82      | -7.98      | 2.81       |
| 870  | 3           | 20          | -10        | 0.60    | -3.88   | -10.80  | -0.72      | -7.96      | 2.80       |
| 853  | 3           | 20          | -5         | 0.61    | -3.96   | -10.77  | -0.89      | -8.06      | 2.78       |
| 867  | 3           | 20          | -5         | 0.60    | -3.81   | -10.82  | -0.78      | -8.00      | 2.82       |
| 841  | 3           | 20          | 0          | 0.56    | -4.00   | -10.76  | -0.83      | -8.03      | 2.77       |
| 845  | 3           | 20          | 5          | 0.60    | -4.01   | -10.75  | -0.92      | -8.10      | 2.82       |
| 849  | 3           | 20          | 10         | 0.62    | -3.99   | -10.76  | -0.90      | -8.12      | 2.82       |
| 878  | 3           | 20          | 15         | 0.64    | -3.92   | -10.78  | -0.86      | -8.32      | 2.97       |
| 1053 | 6           | -10         | -15        | 1.22    | 2.01    | -11.25  | 0.23       | -12.61     | -2.28      |
| 1049 | 6           | -10         | -10        | 1.23    | 2.06    | -11.24  | 0.25       | -12.70     | -2.30      |
| 1044 | 6           | -10         | -5         | 1.21    | 2.09    | -11.23  | 0.25       | -12.56     | -2.30      |
| 1011 | 6           | -10         | 0          | 1.22    | 2.00    | -11.25  | 0.16       | -11.92     | -2.14      |
| 1033 | 6           | -10         | 0          | 1.21    | 2.01    | -11.25  | 0.21       | -12.12     | -2.18      |
| 1040 | 6           | -10         | 5          | 1.24    | 2.03    | -11.24  | 0.21       | -12.48     | -2.23      |
| 1015 | 6           | -10         | 10         | 1.24    | 2.01    | -11.24  | 0.16       | -12.24     | -2.19      |
| 1019 | 6           | -10         | 15         | 1.22    | 1.95    | -11.26  | 0.11       | -12.37     | -2.22      |
| 1035 | 6           | -10         | 15         | 1.24    | 2.05    | -11.24  | 0.22       | -12.27     | -2.20      |
| 937  | 6           | 0           | -15        | 1.21    | -0.01   | -11.43  | -0.13      | -12.44     | -0.10      |
| 933  | 6           | 0           | -10        | 1.21    | 0.00    | -11.43  | -0.12      | -12.47     | -0.11      |
| 929  | 6           | 0           | -5         | 1.21    | -0.03   | -11.43  | -0.15      | -12.52     | -0.16      |
| 912  | 6           | 0           | 0          | 1.17    | -0.05   | -11.43  | -0.18      | -12.40     | -0.09      |
| 917  | 6           | 0           | 5          | 1.22    | -0.04   | -11.42  | -0.17      | -12.65     | -0.08      |
| 921  | 6           | 0           | 10         | 1.22    | -0.02   | -11.42  | -0.15      | -12.44     | -0.10      |
| 925  | 6           | 0           | 15         | 1.25    | 0.06    | -11.42  | -0.15      | -12.58     | -0.09      |
| 978  | 6           | 10          | -15        | 1.21    | -1.98   | -11.25  | -0.43      | -12.30     | 2.03       |
| 974  | 6           | 10          | -10        | 1.21    | -1.94   | -11.26  | -0.41      | -12.32     | 2.00       |
| 970  | 6           | 10          | -5         | 1.23    | -1.90   | -11.26  | -0.37      | -12.14     | 2.02       |
| 954  | 6           | 10          | 0          | 1.23    | -1.92   | -11.26  | -0.36      | -12.36     | 2.06       |
| 958  | 6           | 10          | 5          | 1.20    | -1.99   | -11.25  | -0.47      | -12.38     | 2.05       |
| 962  | 6           | 10          | 10         | 1.22    | -2.00   | -11.25  | -0.46      | -12.21     | 2.03       |
| 966  | 6           | 10          | 15         | 1.25    | -1.96   | -11.25  | -0.48      | -12.38     | 2.07       |
| 1002 | 6           | 20          | -15        | 1.21    | -3.89   | -10.74  | -0.64      | -11.31     | 3.98       |
| 998  | 6           | 20          | -10        | 1.22    | -3.87   | -10.75  | -0.64      | -11.26     | 3.93       |
| 994  | 6           | 20          | -5         | 1.22    | -3.89   | -10.74  | -0.66      | -11.07     | 3.88       |
| 982  | 6           | 20          | 0          | 1.22    | -3.91   | -10.74  | -0.64      | -11.10     | 3.91       |
| 986  | 6           | 20          | 5          | 1.22    | -3.88   | -10.75  | -0.64      | -11.11     | 3.91       |
| 990  | 6           | 20          | 10         | 1.23    | -3.88   | -10.75  | -0.68      | -11.19     | 3.94       |
| 1006 | 6           | 20          | 15         | 1.23    | -3.94   | -10.72  | -0.71      | -11.41     | 4.01       |

\* Indicates model was close to heave stop

TABLE 6.111.1 - STABILITY DATA IN BODY AXES AT PIVOT

10 deg Deadrise, L/R = 0.117, Cv = 1.5

| RUN | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|-----|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 754 | 0           | -10         | -15        | -1.91   | -0.06   | -11.68  | 1.03       | 3.22       | -1.81      |
| 750 | 0           | -10         | -10        | -1.61   | 0.75    | -11.53  | 0.66       | 2.16       | -1.42      |
| 746 | 0           | -10         | -5         | -1.46   | 1.48    | -11.41  | 0.55       | 1.64       | -0.84      |
| 733 | 0           | -10         | 0          | -1.40   | 2.08    | -11.30  | 0.46       | 1.30       | -0.26      |
| 737 | 0           | -10         | 5          | -1.47   | 2.79    | -11.18  | 0.23       | 1.10       | 0.35       |
| 741 | 0           | -10         | 10         | -1.85   | 4.28    | -10.91  | -0.75      | 1.73       | 1.72       |
| 665 | 0           | 0           | -10        | -1.82   | -1.26   | -11.49  | 0.37       | 1.48       | -1.83      |
| 661 | 0           | 0           | -5         | -1.52   | -0.50   | -11.49  | 0.20       | 1.22       | -0.81      |
| 649 | 0           | 0           | 0          | -1.37   | 0.14    | -11.49  | 0.02       | 1.31       | -0.21      |
| 652 | 0           | 0           | 5          | -1.37   | 0.54    | -11.49  | -0.07      | 1.35       | 0.25       |
| 657 | 0           | 0           | 10         | -1.56   | 1.16    | -11.49  | -0.39      | 1.66       | 0.89       |
| 690 | 0           | 10          | -10        | -1.93   | -4.23   | -10.92  | 0.35       | 0.06       | -2.79      |
| 686 | 0           | 10          | -5         | -1.55   | -2.63   | -11.20  | -0.40      | 0.21       | -1.18      |
| 669 | 0           | 10          | 0          | -1.45   | -1.88   | -11.34  | -0.52      | 0.68       | -0.42      |
| 673 | 0           | 10          | 5          | -1.41   | -1.34   | -11.43  | -0.66      | 1.39       | -0.04      |
| 677 | 0           | 10          | 10         | -1.49   | -0.69   | -11.55  | -0.69      | 1.98       | 0.53       |
| 682 | 0           | 10          | 15         | -1.71   | 0.35    | -11.73  | -0.79      | 2.86       | 1.04       |
| 729 | 0           | 20          | -10        | -1.85   | -7.26   | -9.58   | 0.18       | -1.26      | -3.12      |
| 725 | 0           | 20          | -5         | -1.45   | -4.80   | -10.48  | -0.48      | -0.79      | -1.47      |
| 708 | 0           | 20          | 0          | -1.29   | -3.91   | -10.80  | -0.79      | -0.15      | -0.66      |
| 712 | 0           | 20          | 5          | -1.32   | -3.18   | -11.07  | -0.94      | 0.63       | -0.13      |
| 716 | 0           | 20          | 10         | -1.31   | -2.11   | -11.46  | -1.00      | 1.50       | 0.22       |
| 721 | 0           | 20          | 15         | -1.38   | -0.92   | -11.89  | -0.97      | 2.00       | 0.42       |
| 884 | 3           | -10         | -15        | -0.73   | -0.54   | -11.82  | 0.11       | -2.07      | 0.11       |
| 888 | 3           | -10         | -10        | -0.59   | 0.53    | -11.82  | 0.29       | -3.53      | -0.54      |
| 892 | 3           | -10         | -5         | -0.62   | 1.45    | -11.46  | 0.37       | -4.12      | -1.05      |
| 896 | 3           | -10         | 0          | -0.64   | 2.21    | -11.33  | 0.38       | -4.31      | -1.29      |
| 900 | 3           | -10         | 5          | -0.70   | 3.11    | -11.17  | 0.36       | -4.23      | -1.52      |
| 904 | 3           | -10         | 10         | -0.87   | 4.57    | -10.92  | -0.05      | -3.50      | -1.89      |
| 908 | 3           | -10         | 15         | -1.19   | 7.45    | -10.43  | -0.97      | -1.94      | -2.16      |
| 803 | 3           | 0           | -15        | -0.86   | -2.27   | -11.55  | -0.16      | -2.83      | 0.29       |
| 799 | 3           | 0           | -10        | -0.76   | -1.22   | -11.55  | -0.16      | -4.08      | 0.15       |
| 795 | 3           | 0           | -5         | -0.65   | -0.38   | -11.54  | -0.16      | -4.55      | -0.08      |
| 760 | 3           | 0           | 0          | -0.53   | 0.26    | -11.53  | -0.08      | -4.69      | -0.30      |
| 764 | 3           | 0           | 5          | -0.63   | 1.03    | -11.54  | -0.01      | -4.52      | -0.64      |
| 768 | 3           | 0           | 10         | -0.76   | 1.95    | -11.55  | -0.01      | -3.65      | -1.13      |
| 809 | 3           | 0           | 10         | -0.75   | 2.03    | -11.55  | -0.07      | -3.67      | -1.07      |
| 772 | 3           | 0           | 15         | -0.95   | 3.71    | -11.56  | -0.37      | -2.16      | -1.77      |
| 789 | 3           | 0           | 15         | -0.92   | 3.65    | -11.55  | -0.33      | -2.23      | -1.69      |

\* Indicates model was close to heave stop

TABLE 6.111.2 - STABILITY DATA IN BODY AXES AT PIVOT

10 deg Deadrise, L/R = 0.117, Cv = 1.5

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 837  | 3           | 10          | -15        | -1.03   | -5.61   | -10.75  | 0.26       | -4.00      | 0.70       |
| 833  | 3           | 10          | -10        | -0.78   | -3.34   | -11.14  | -0.37      | -4.79      | 0.89       |
| 840  | 3           | 10          | -10        | -1.01   | -3.84   | -11.06  | -0.67      | -4.81      | 0.87       |
| 830  | 3           | 10          | -5         | -0.68   | -2.33   | -11.31  | -0.57      | -5.03      | 0.84       |
| 812  | 3           | 10          | 0          | -0.64   | -1.58   | -11.44  | -0.58      | -4.84      | 0.65       |
| 813  | 3           | 10          | 0          | -0.61   | -1.58   | -11.44  | -0.55      | -4.90      | 0.67       |
| 817  | 3           | 10          | 5          | -0.57   | -0.91   | -11.55  | -0.57      | -4.71      | 0.39       |
| 821  | 3           | 10          | 10         | -0.59   | 0.04    | -11.72  | -0.47      | -4.09      | -0.26      |
| 825  | 3           | 10          | 15         | -0.69   | 1.18    | -11.93  | -0.31      | -2.90      | -1.10      |
| 876  | 3           | 20          | -15        | -1.14   | -9.11   | -8.99   | 0.69       | -4.01      | 0.98       |
| 871  | 3           | 20          | -10        | -0.87   | -6.02   | -10.10  | -0.33      | -4.68      | 1.35       |
| 854  | 3           | 20          | -5         | -0.78   | -4.57   | -10.62  | -0.76      | -4.89      | 1.45       |
| 842  | 3           | 20          | 0          | -0.77   | -3.60   | -10.98  | -0.88      | -4.73      | 1.41       |
| 846  | 3           | 20          | 5          | -0.76   | -2.58   | -11.35  | -1.07      | -4.59      | 1.03       |
| 850  | 3           | 20          | 10         | -0.78   | -1.30   | -11.82  | -1.04      | -4.21      | 0.30       |
| 879  | 3           | 20          | 15         | -0.74   | -0.25   | -12.19  | -0.77      | -3.57      | -0.43      |
| 1054 | 6           | -10         | -15        | -0.30   | -1.23   | -11.98  | -0.01      | -7.20      | 1.34       |
| 1050 | 6           | -10         | -10        | -0.33   | -0.14   | -11.79  | 0.18       | -8.16      | 0.07       |
| 1045 | 6           | -10         | -5         | -0.41   | 1.14    | -11.57  | 0.30       | -8.46      | -1.25      |
| 1012 | 6           | -10         | 0          | -0.41   | 2.14    | -11.40  | 0.24       | -8.08      | -2.06      |
| 1034 | 6           | -10         | 0          | -0.35   | 2.16    | -11.39  | 0.22       | -8.19      | -2.11      |
| 1039 | 6           | -10         | 5          | -0.48   | 3.22    | -11.21  | 0.12       | -8.09      | -3.07      |
| 1016 | 6           | -10         | 10         | -0.57   | 4.97    | -10.92  | 0.01       | -7.35      | -4.28      |
| 1020 | 6           | -10         | 15         | -0.73   | 7.89    | -10.42  | -0.46      | -6.01      | -6.24      |
| 1038 | 6           | -10         | 15         | -0.64   | 7.87    | -10.41  | -0.32      | -6.38      | -6.22      |
| 938  | 6           | 0           | -15        | -0.40   | -2.88   | -11.60  | -0.32      | -7.45      | 2.48       |
| 934  | 6           | 0           | -10        | -0.34   | -1.79   | -11.59  | -0.28      | -7.95      | 1.55       |
| 930  | 6           | 0           | -5         | -0.35   | -0.77   | -11.59  | -0.31      | -8.38      | 0.36       |
| 913  | 6           | 0           | 0          | -0.34   | 0.31    | -11.59  | -0.11      | -8.58      | -0.58      |
| 918  | 6           | 0           | 5          | -0.35   | 1.33    | -11.59  | -0.10      | -8.26      | -1.54      |
| 922  | 6           | 0           | 10         | -0.40   | 2.36    | -11.59  | -0.07      | -7.66      | -2.56      |
| 926  | 6           | 0           | 15         | -0.49   | 4.11    | -11.60  | -0.17      | -6.93      | -4.09      |
| 979  | 6           | 10          | -15        | -0.48   | -5.43   | -10.83  | -0.24      | -7.68      | 4.05       |
| 975  | 6           | 10          | -10        | -0.44   | -3.60   | -11.14  | -0.49      | -8.42      | 2.80       |
| 971  | 6           | 10          | -5         | -0.33   | -2.26   | -11.37  | -0.42      | -8.69      | 1.96       |
| 955  | 6           | 10          | 0          | -0.36   | -1.22   | -11.55  | -0.39      | -8.89      | 1.07       |
| 959  | 6           | 10          | 5          | -0.37   | -0.21   | -11.73  | -0.45      | -8.72      | -0.01      |
| 963  | 6           | 10          | 10         | -0.31   | 0.70    | -11.89  | -0.35      | -8.04      | -1.20      |
| 967  | 6           | 10          | 15         | -0.28   | 1.60    | -12.04  | -0.25      | -7.82      | -2.10      |
| 1003 | 6           | 20          | -15        | -0.60   | -8.51   | -9.27   | 0.01       | -6.83      | 5.48       |
| 999  | 6           | 20          | -10        | -0.49   | -5.97   | -10.18  | -0.50      | -7.67      | 4.26       |
| 995  | 6           | 20          | -5         | -0.40   | -4.38   | -10.75  | -0.75      | -8.11      | 3.31       |
| 983  | 6           | 20          | 0          | -0.37   | -3.09   | -11.21  | -0.80      | -8.37      | 2.45       |
| 987  | 6           | 20          | 5          | -0.39   | -1.64   | -11.74  | -0.83      | -8.54      | 1.21       |
| 991  | 6           | 20          | 10         | -0.39   | -0.47   | -12.17  | -0.78      | -8.39      | -0.08      |
| 1007 | 6           | 20          | 15         | -0.44   | -0.01   | -12.34  | -0.65      | -8.09      | -0.68      |

\* Indicates model was close to heave stop

TABLE 6.113.1 - STABILITY DATA IN BODY AXES AT PIVOT

10 deg Deadrise, L/R = 0.117, Cv = 3

| RUN   | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|-------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 755   | 0           | -10         | -15        | -4.47   | -2.84   | -12.17  | -0.23      | 15.05      | -1.47      |
| 758   | 0           | -10         | -15        | -4.41   | -2.93   | -12.18  | -0.40      | 14.94      | -1.62      |
| 751   | 0           | -10         | -10        | -4.79   | -2.13   | -12.04  | 0.05       | 13.53      | -1.49      |
| 747   | 0           | -10         | -5         | -4.29   | -0.24   | -11.71  | 0.31       | 9.04       | -1.39      |
| 734   | 0           | -10         | 0          | -4.11   | 2.24    | -11.27  | 0.37       | 6.06       | -1.92      |
| 738   | 0           | -10         | 5          | -5.45   | 6.44    | -10.53  | -0.50      | 7.88       | -1.33      |
| 742   | 0           | -10         | 10         | -7.24   | 18.18   | -8.46   | -3.11      | 10.73      | 0.62       |
| 666 * | 0           | 0           | -10        | -7.50   | -10.34  | -11.49  | 1.55       | 7.47       | -5.94      |
| 662   | 0           | 0           | -5         | -4.80   | -2.22   | -11.49  | 0.09       | 6.21       | -0.80      |
| 650   | 0           | 0           | 0          | -3.82   | 0.36    | -11.49  | 0.04       | 5.41       | -0.87      |
| 654   | 0           | 0           | 5          | -4.89   | 3.19    | -11.49  | -0.29      | 8.07       | -1.47      |
| 658 * | 0           | 0           | 10         | -7.10   | 11.85   | -11.49  | -1.65      | 11.45      | -2.59      |
| 691 * | 0           | 10          | -10        | -7.56   | -15.52  | -8.93   | 3.00       | 1.89       | -10.38     |
| 687   | 0           | 10          | -5         | -4.93   | -5.16   | -10.76  | 0.12       | 2.39       | -2.44      |
| 670   | 0           | 10          | 0          | -3.82   | -1.97   | -11.32  | -0.45      | 3.17       | -0.09      |
| 674   | 0           | 10          | 5          | -3.96   | 0.15    | -11.69  | -0.38      | 7.23       | -0.55      |
| 678   | 0           | 10          | 10         | -4.41   | 2.99    | -12.19  | -0.13      | 10.47      | -1.44      |
| 683   | 0           | 10          | 15         | -3.88   | 3.87    | -12.35  | 0.65       | 10.48      | -1.22      |
| 730 * | 0           | 20          | -10        | -7.47   | -21.03  | -4.57   | 3.09       | -4.78      | -14.73     |
| 726   | 0           | 20          | -5         | -4.71   | -8.31   | -9.20   | 0.33       | -2.33      | -4.90      |
| 709   | 0           | 20          | 0          | -3.61   | -4.13   | -10.72  | -0.71      | 0.25       | -0.86      |
| 713   | 0           | 20          | 5          | -3.75   | -0.96   | -11.88  | -0.96      | 4.14       | -0.70      |
| 717   | 0           | 20          | 10         | -2.98   | -0.23   | -12.14  | -0.40      | 5.16       | -1.28      |
| 718   | 0           | 20          | 10         | -2.94   | -0.34   | -12.11  | -0.47      | 4.97       | -1.29      |
| 722   | 0           | 20          | 15         | -2.21   | -0.12   | -12.18  | -0.77      | 0.79       | -1.37      |
| 885   | 3           | -10         | -15        | -0.87   | -0.87   | -11.88  | -0.45      | -7.08      | 0.85       |
| 889   | 3           | -10         | -10        | -1.09   | -0.23   | -11.78  | -0.17      | -3.36      | 0.44       |
| 893   | 3           | -10         | -5         | -1.42   | 0.42    | -11.69  | 0.29       | -0.48      | 0.14       |
| 897   | 3           | -10         | 0          | -1.84   | 2.23    | -11.39  | 0.48       | -0.96      | -1.59      |
| 901   | 3           | -10         | 5          | -2.23   | 5.67    | -10.80  | 0.32       | -0.07      | -3.55      |
| 905   | 3           | -10         | 10         | -3.41   | 13.68   | -9.45   | -0.68      | 3.81       | -7.24      |
| 909 * | 3           | -10         | 15         | -5.83   | 31.34   | -6.47   | -4.44      | 12.63      | -7.75      |
| 804   | 3           | 0           | -15        | -2.12   | -5.11   | -11.62  | -0.85      | -0.09      | 3.16       |
| 800   | 3           | 0           | -10        | -1.86   | -2.42   | -11.60  | -0.73      | -1.05      | 1.37       |
| 796   | 3           | 0           | -5         | -1.57   | -0.70   | -11.59  | -0.41      | -1.41      | 0.37       |
| 761   | 3           | 0           | 0          | -1.43   | 0.43    | -11.58  | 0.07       | -2.01      | -0.47      |
| 806   | 3           | 0           | 0          | -1.42   | 0.39    | -11.58  | -0.04      | -1.36      | -0.46      |
| 765   | 3           | 0           | 5          | -1.70   | 2.27    | -11.59  | 0.36       | -1.76      | -1.93      |
| 807   | 3           | 0           | 5          | -1.73   | 2.10    | -11.60  | 0.18       | -1.22      | -1.83      |
| 769   | 3           | 0           | 10         | -2.05   | 5.17    | -11.61  | 0.40       | -0.50      | -4.26      |
| 808   | 3           | 0           | 10         | -2.05   | 5.02    | -11.61  | 0.23       | -0.09      | -4.15      |
| 773   | 3           | 0           | 15         | -2.88   | 11.44   | -11.66  | 0.02       | 3.43       | -8.77      |
| 788   | 3           | 0           | 15         | -2.59   | 10.47   | -11.64  | 0.01       | 2.78       | -8.33      |

\* Indicates model was close to heave stop

TABLE 6.113.2 - STABILITY DATA IN BODY AXES AT PIVOT

10 deg Deadrise, L/R = 0.117, Cv = 3

| RUN   | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|-------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 838   | 3           | 10          | -15        | -4.45   | -20.18  | -8.36   | 1.78       | 2.27       | 1.55       |
| 834   | 3           | 10          | -10        | -2.64   | -6.60   | -10.66  | -0.30      | -1.61      | 2.12       |
| 831   | 3           | 10          | -5         | -1.93   | -2.89   | -11.28  | -0.73      | -3.03      | 1.37       |
| 814   | 3           | 10          | 0          | -1.55   | -0.59   | -11.66  | -0.59      | -2.97      | -0.14      |
| 818   | 3           | 10          | 5          | -1.27   | 0.11    | -11.77  | -0.18      | -4.02      | -0.44      |
| 822   | 3           | 10          | 10         | -0.94   | 0.69    | -11.86  | 0.18       | -7.67      | -0.88      |
| 826   | 3           | 10          | 15         | -0.59   | 0.99    | -11.89  | 0.26       | -11.38     | -1.35      |
| 877 * | 3           | 20          | -15        | -5.67   | -33.22  | -0.47   | 4.93       | -3.43      | -7.79      |
| 872   | 3           | 20          | -10        | -3.30   | -12.52  | -7.87   | 0.70       | -2.62      | 1.28       |
| 855   | 3           | 20          | -5         | -2.46   | -5.75   | -10.29  | -0.67      | -3.50      | 2.02       |
| 868   | 3           | 20          | -5         | -2.36   | -5.51   | -10.37  | -0.75      | -3.58      | 2.06       |
| 843   | 3           | 20          | 0          | -1.97   | -2.42   | -11.47  | -1.05      | -4.01      | 0.84       |
| 847   | 3           | 20          | 5          | -1.23   | -0.47   | -12.14  | -0.84      | -5.42      | -0.37      |
| 851   | 3           | 20          | 10         | -0.84   | -0.30   | -12.18  | -0.85      | -9.39      | -0.36      |
| 880   | 3           | 20          | 15         | -0.47   | -0.77   | -11.99  | -1.14      | -12.14     | 0.28       |
| 1055  | 6           | -10         | -15        | -0.25   | -0.73   | -11.89  | -0.41      | -15.44     | 0.65       |
| 1051  | 6           | -10         | -10        | -0.45   | -0.46   | -11.86  | -0.24      | -13.49     | 0.41       |
| 1047  | 6           | -10         | -5         | -0.74   | -0.10   | -11.83  | -0.16      | -10.73     | 0.03       |
| 1013  | 6           | -10         | 0          | -0.87   | 0.95    | -11.66  | 0.38       | -8.57      | -0.90      |
| 1057  | 6           | -10         | 0          | -0.94   | 0.84    | -11.68  | 0.30       | -8.72      | -0.89      |
| 1041  | 6           | -10         | 5          | -1.26   | 3.67    | -11.22  | 0.26       | -7.52      | -4.17      |
| 1017  | 6           | -10         | 10         | -1.74   | 8.89    | -10.35  | 0.22       | -4.83      | -9.12      |
| 1021  | 6           | -10         | 15         | -2.50   | 20.39   | -8.40   | -0.76      | 0.90       | -17.48     |
| 1037  | 6           | -10         | 15         | -2.14   | 19.46   | -8.53   | -0.69      | 0.42       | -16.83     |
| 939   | 6           | 0           | -15        | -0.70   | -1.86   | -11.63  | -0.97      | -10.76     | 1.95       |
| 935   | 6           | 0           | -10        | -0.44   | -0.76   | -11.60  | -0.64      | -10.67     | 0.63       |
| 931   | 6           | 0           | -5         | -0.43   | -0.37   | -11.60  | -0.35      | -10.84     | 0.19       |
| 914   | 6           | 0           | 0          | -0.37   | 0.06    | -11.59  | -0.03      | -11.13     | -0.25      |
| 919   | 6           | 0           | 5          | -0.46   | 0.54    | -11.60  | 0.34       | -10.93     | -0.56      |
| 923   | 6           | 0           | 10         | -0.66   | 1.68    | -11.62  | 0.55       | -11.03     | -2.13      |
| 927   | 6           | 0           | 15         | -0.89   | 3.49    | -11.65  | 0.73       | -10.52     | -4.53      |
| 980   | 6           | 10          | -15        | -1.52   | -8.45   | -10.40  | -0.76      | -5.72      | 7.74       |
| 976   | 6           | 10          | -10        | -1.29   | -3.66   | -11.22  | -0.88      | -8.03      | 3.41       |
| 972   | 6           | 10          | -5         | -0.94   | -1.02   | -11.65  | -0.79      | -9.41      | 0.62       |
| 956   | 6           | 10          | 0          | -0.58   | -0.46   | -11.71  | -0.48      | -11.69     | 0.10       |
| 960   | 6           | 10          | 5          | -0.40   | -0.07   | -11.76  | -0.31      | -13.97     | -0.32      |
| 964   | 6           | 10          | 10         | -0.23   | 0.22    | -11.79  | -0.16      | -15.65     | -0.57      |
| 968   | 6           | 10          | 15         | -0.14   | 0.35    | -11.81  | -0.19      | -16.47     | -0.75      |
| 1004  | 6           | 20          | -15        | -2.12   | -17.92  | -6.01   | 1.01       | -1.83      | 11.57      |
| 1000  | 6           | 20          | -10        | -1.72   | -8.63   | -9.34   | -0.63      | -5.51      | 6.70       |
| 996   | 6           | 20          | -5         | -1.33   | -3.55   | -11.15  | -0.92      | -8.01      | 2.85       |
| 984   | 6           | 20          | 0          | -0.85   | -0.56   | -12.19  | -1.03      | -10.54     | 0.09       |
| 988   | 6           | 20          | 5          | -0.34   | -0.62   | -12.11  | -0.85      | -13.35     | 0.31       |
| 992   | 6           | 20          | 10         | -0.18   | -0.84   | -12.01  | -0.98      | -15.02     | 0.70       |
| 1008  | 6           | 20          | 15         | -0.08   | -1.10   | -11.90  | -1.18      | -16.17     | 1.17       |

\* Indicates model was close to heave stop



TABLE 6.114.1 - STABILITY DATA IN BODY AXES AT PIVOT

10 deg Deadrise, L/R = 0.117, Cv = 4

| RUN   | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|-------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 756   | 0           | -10         | -15        | -3.84   | -2.36   | -12.08  | -0.55      | 10.25      | -0.14      |
| 757   | 0           | -10         | -15        | -3.82   | -2.37   | -12.09  | -0.63      | 10.15      | -0.15      |
| 752   | 0           | -10         | -10        | -5.32   | -1.66   | -11.96  | -0.26      | 18.20      | -1.03      |
| 748   | 0           | -10         | -5         | -7.02   | -1.24   | -11.89  | -0.19      | 20.22      | -1.90      |
| 735   | 0           | -10         | 0          | -7.37   | 1.41    | -11.42  | 0.18       | 13.07      | -3.11      |
| 739   | 0           | -10         | 5          | -11.25  | 12.28   | -9.50   | -1.15      | 15.14      | -2.59      |
| 743   | 0           | -10         | 10         | -11.95  | 28.55   | -6.63   | -5.15      | 19.51      | 2.13       |
| 667 * | 0           | 0           | -10        | -12.56  | -16.80  | -11.49  | 1.21       | 15.87      | -11.98     |
| 663   | 0           | 0           | -5         | -9.51   | -3.19   | -11.49  | 0.05       | 15.53      | -2.31      |
| 651   | 0           | 0           | 0          | -6.92   | 0.21    | -11.49  | 0.14       | 13.06      | -1.47      |
| 655   | 0           | 0           | 5          | -7.48   | 4.23    | -11.49  | -0.29      | 16.04      | -2.29      |
| 659 * | 0           | 0           | 10         | -11.88  | 17.54   | -11.49  | -2.60      | 21.78      | -2.76      |
| 692 * | 0           | 10          | -10        | -13.02  | -25.21  | -7.22   | 4.96       | 3.99       | -20.54     |
| 688 * | 0           | 10          | -5         | -11.55  | -10.57  | -9.80   | 0.93       | 6.96       | -10.10     |
| 671   | 0           | 10          | 0          | -7.01   | -1.81   | -11.35  | -0.78      | 8.35       | 0.02       |
| 675   | 0           | 10          | 5          | -6.33   | 0.78    | -11.80  | -0.06      | 14.29      | -1.28      |
| 679   | 0           | 10          | 10         | -4.63   | 1.55    | -11.94  | 0.79       | 10.45      | -0.78      |
| 680   | 0           | 10          | 10         | -4.54   | 1.47    | -11.93  | 0.80       | 10.24      | -0.76      |
| 684   | 0           | 10          | 15         | -3.54   | 2.76    | -12.15  | 1.00       | 4.80       | -1.30      |
| 731 * | 0           | 20          | -10        | -12.68  | -33.45  | -0.05   | 5.96       | -5.01      | -28.23     |
| 727 * | 0           | 20          | -5         | -11.46  | -15.57  | -6.56   | 1.39       | -1.81      | -17.05     |
| 710   | 0           | 20          | 0          | -6.81   | -4.35   | -10.64  | -0.63      | 2.92       | -2.59      |
| 714   | 0           | 20          | 5          | -5.38   | -0.73   | -11.96  | -0.65      | 8.11       | -1.94      |
| 719   | 0           | 20          | 10         | -3.51   | -0.72   | -11.96  | -0.95      | 2.50       | -1.68      |
| 723   | 0           | 20          | 15         | -1.85   | -1.82   | -11.56  | -1.62      | -4.01      | 0.32       |
| 886   | 3           | -10         | -15        | -0.84   | -0.67   | -11.85  | -0.27      | -11.27     | 0.75       |
| 890   | 3           | -10         | -10        | -1.13   | -0.22   | -11.78  | -0.36      | -8.69      | 0.50       |
| 894   | 3           | -10         | -5         | -1.94   | 0.24    | -11.74  | 0.14       | -2.99      | 0.22       |
| 898   | 3           | -10         | 0          | -2.42   | 1.94    | -11.47  | 0.63       | 0.51       | -1.19      |
| 902   | 3           | -10         | 5          | -3.61   | 7.43    | -10.57  | 0.44       | 3.34       | -5.23      |
| 906   | 3           | -10         | 10         | -6.05   | 22.35   | -8.06   | -1.28      | 11.85      | -11.49     |
| 910 * | 3           | -10         | 15         | -10.10  | 53.55   | -2.78   | -6.29      | 26.73      | -11.14     |
| 805   | 3           | 0           | -15        | -2.65   | -4.76   | -11.64  | -1.54      | -2.76      | 3.74       |
| 801   | 3           | 0           | -10        | -2.37   | -2.02   | -11.63  | -1.11      | -3.05      | 1.15       |
| 797   | 3           | 0           | -5         | -1.94   | -0.59   | -11.61  | -0.50      | -2.69      | 0.22       |
| 762   | 3           | 0           | 0          | -1.95   | 0.38    | -11.61  | 0.18       | -2.73      | -0.20      |
| 793   | 3           | 0           | 0          | -1.92   | 0.16    | -11.61  | -0.03      | -2.05      | -0.08      |
| 766   | 3           | 0           | 5          | -2.34   | 2.07    | -11.63  | 0.65       | -3.34      | -1.79      |
| 792   | 3           | 0           | 5          | -2.21   | 1.78    | -11.62  | 0.40       | -2.93      | -1.58      |
| 770   | 3           | 0           | 10         | -2.69   | 5.06    | -11.65  | 0.98       | -2.36      | -4.71      |
| 791   | 3           | 0           | 10         | -2.59   | 4.65    | -11.64  | 0.66       | -1.96      | -4.50      |
| 774   | 3           | 0           | 15         | -3.74   | 12.65   | -11.70  | 0.76       | 2.82       | -11.40     |
| 787   | 3           | 0           | 15         | -3.27   | 11.25   | -11.68  | 0.63       | 1.64       | -10.77     |

\* Indicates model was close to heave stop

TABLE 6.114.2 - STABILITY DATA IN BODY AXES AT PIVOT

10 deg Deadrise, L/R = 0.117, Cv = 4

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 839  | 3           | 10          | -15        | -9.76   | -43.36  | -4.56   | 1.71       | 10.89      | -6.10      |
| 835  | 3           | 10          | -10        | -4.30   | -8.41   | -10.43  | -0.58      | 1.09       | 2.76       |
| 829  | 3           | 10          | -5         | -3.08   | -2.36   | -11.43  | -1.09      | -1.67      | 0.62       |
| 815  | 3           | 10          | 0          | -1.98   | -0.36   | -11.73  | -0.53      | -5.21      | -0.28      |
| 819  | 3           | 10          | 5          | -1.27   | 0.15    | -11.78  | -0.22      | -9.89      | -0.64      |
| 823  | 3           | 10          | 10         | -0.92   | 0.38    | -11.80  | -0.33      | -12.51     | -0.81      |
| 827  | 3           | 10          | 15         | -0.65   | 0.53    | -11.81  | -0.43      | -13.89     | -0.99      |
| 873  | 3           | 20          | -10        | -5.94   | -20.46  | -5.13   | 1.64       | 0.17       | -0.04      |
| 874  | 3           | 20          | -10        | -5.89   | -20.08  | -5.26   | 1.80       | 0.08       | -0.02      |
| 869  | 3           | 20          | -5         | -4.01   | -6.01   | -10.28  | -0.94      | -1.49      | 1.18       |
| 844  | 3           | 20          | 0          | -2.92   | -1.54   | -11.85  | -1.60      | -4.62      | -0.29      |
| 848  | 3           | 20          | 5          | -1.41   | -0.86   | -12.01  | -1.15      | -8.83      | 0.06       |
| 852  | 3           | 20          | 10         | -0.85   | -1.24   | -11.84  | -1.39      | -12.98     | 1.12       |
| 881  | 3           | 20          | 15         | -0.41   | -1.69   | -11.65  | -1.67      | -15.07     | 2.09       |
| 1056 | 6           | -10         | -15        | -0.22   | -0.36   | -11.82  | -0.03      | -18.03     | -0.38      |
| 1052 | 6           | -10         | -10        | -0.38   | -0.07   | -11.78  | 0.04       | -16.83     | -0.40      |
| 1048 | 6           | -10         | -5         | -0.63   | 0.32    | -11.74  | 0.08       | -15.48     | -0.56      |
| 1014 | 6           | -10         | 0          | -0.96   | 0.91    | -11.67  | 0.42       | -12.60     | -1.08      |
| 1043 | 6           | -10         | 0          | -0.92   | 0.64    | -11.72  | 0.27       | -13.24     | -0.74      |
| 1042 | 6           | -10         | 5          | -1.47   | 3.22    | -11.32  | 0.48       | -10.26     | -3.93      |
| 1018 | 6           | -10         | 10         | -2.34   | 9.60    | -10.29  | 0.47       | -5.58      | -11.09     |
| 1022 | 6           | -10         | 15         | -3.56   | 26.85   | -7.38   | -0.96      | 3.83       | -26.41     |
| 1036 | 6           | -10         | 15         | -2.90   | 25.05   | -7.62   | -0.91      | 3.14       | -25.37     |
| 940  | 6           | 0           | -15        | -0.38   | -1.38   | -11.59  | -1.09      | -16.16     | 1.46       |
| 936  | 6           | 0           | -10        | -0.30   | -0.88   | -11.58  | -0.73      | -16.40     | 0.75       |
| 932  | 6           | 0           | -5         | -0.32   | -0.29   | -11.59  | -0.38      | -16.50     | 0.06       |
| 915  | 6           | 0           | 0          | -0.35   | 0.33    | -11.59  | 0.07       | -16.45     | -0.57      |
| 916  | 6           | 0           | 0          | -0.31   | 0.28    | -11.59  | 0.00       | -16.61     | -0.60      |
| 920  | 6           | 0           | 5          | -0.29   | 0.75    | -11.58  | 0.37       | -16.40     | -1.17      |
| 924  | 6           | 0           | 10         | -0.39   | 1.21    | -11.59  | 0.71       | -16.25     | -1.80      |
| 928  | 6           | 0           | 15         | -0.50   | 1.87    | -11.61  | 1.00       | -15.63     | -2.75      |
| 981  | 6           | 10          | -15        | -1.96   | -7.89   | -10.55  | -1.37      | -7.33      | 8.55       |
| 977  | 6           | 10          | -10        | -1.45   | -3.03   | -11.35  | -1.34      | -10.98     | 3.05       |
| 973  | 6           | 10          | -5         | -0.79   | -1.15   | -11.61  | -1.04      | -13.65     | 0.88       |
| 957  | 6           | 10          | 0          | -0.52   | -0.92   | -11.63  | -1.00      | -15.91     | 0.66       |
| 961  | 6           | 10          | 5          | -0.33   | -0.73   | -11.64  | -0.97      | -16.73     | 0.51       |
| 965  | 6           | 10          | 10         | -0.18   | -0.47   | -11.67  | -0.95      | -17.48     | 0.33       |
| 969  | 6           | 10          | 15         | -0.04   | -0.27   | -11.69  | -0.98      | -18.07     | 0.14       |
| 1005 | 6           | 20          | -15        | -3.55   | -26.84  | -2.92   | 1.74       | 2.86       | 18.55      |
| 1001 | 6           | 20          | -10        | -2.49   | -9.74   | -9.03   | -0.80      | -4.99      | 8.93       |
| 997  | 6           | 20          | -5         | -1.68   | -2.76   | -11.48  | -1.26      | -9.87      | 2.29       |
| 985  | 6           | 20          | 0          | -1.07   | 0.07    | -12.44  | -1.45      | -13.62     | -0.70      |
| 989  | 6           | 20          | 5          | -0.31   | -1.36   | -11.83  | -1.39      | -16.07     | 1.71       |
| 993  | 6           | 20          | 10         | -0.08   | -1.63   | -11.71  | -1.50      | -17.18     | 2.38       |
| 1010 | 6           | 20          | 10         | -0.08   | -1.91   | -11.61  | -1.64      | -17.07     | 2.46       |
| 1009 | 6           | 20          | 15         | -0.01   | -1.96   | -11.58  | -1.71      | -17.99     | 2.97       |

\* Indicates model was close to heave stop

TABLE 6.120.1 - STABILITY DATA IN BODY AXES AT PIVOT

10 deg Deadrise, L/R = 0.234, Cv = 0

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 2471 | 0           | -10         | -15        | -0.04   | 1.91    | -11.33  | 0.67       | -3.15      | -0.56      |
| 2482 | 0           | -10         | -10        | -0.01   | 1.94    | -11.33  | 0.66       | -3.13      | -0.53      |
| 2458 | 0           | -10         | -5         | -0.04   | 1.95    | -11.32  | 0.67       | -3.08      | -0.56      |
| 2427 | 0           | -10         | 0          | 0.12    | 1.92    | -11.33  | 0.59       | -2.74      | -0.51      |
| 2431 | 0           | -10         | 5          | 0.02    | 1.96    | -11.32  | 0.63       | -3.07      | -0.48      |
| 2435 | 0           | -10         | 10         | 0.01    | 1.96    | -11.32  | 0.65       | -3.09      | -0.51      |
| 2454 | 0           | -10         | 15         | -0.03   | 1.92    | -11.33  | 0.63       | -3.01      | -0.55      |
| 2348 | 0           | 0           | -15        | -0.02   | -0.08   | -11.49  | 0.03       | -3.45      | 0.01       |
| 2344 | 0           | 0           | -10        | -0.03   | -0.09   | -11.49  | 0.03       | -3.37      | 0.02       |
| 2340 | 0           | 0           | -5         | -0.04   | -0.09   | -11.49  | 0.04       | -3.33      | 0.05       |
| 2315 | 0           | 0           | 0          | -0.03   | -0.04   | -11.49  | 0.05       | -3.25      | 0.01       |
| 2329 | 0           | 0           | 5          | -0.04   | -0.04   | -11.49  | 0.04       | -3.26      | 0.02       |
| 2336 | 0           | 0           | 10         | -0.04   | -0.05   | -11.49  | 0.04       | -3.26      | 0.02       |
| 2395 | 0           | 10          | -10        | -0.07   | -2.16   | -11.29  | -0.64      | -3.48      | 0.66       |
| 2390 | 0           | 10          | -5         | -0.05   | -2.10   | -11.30  | -0.63      | -3.34      | 0.63       |
| 2373 | 0           | 10          | 0          | 0.05    | -2.06   | -11.30  | -0.53      | -2.93      | 0.57       |
| 2378 | 0           | 10          | 5          | -0.08   | -2.08   | -11.30  | -0.58      | -3.21      | 0.61       |
| 2382 | 0           | 10          | 10         | -0.08   | -2.04   | -11.31  | -0.54      | -3.28      | 0.60       |
| 2386 | 0           | 10          | 15         | -0.09   | -2.05   | -11.31  | -0.61      | -3.26      | 0.62       |
| 2422 | 0           | 20          | -15        | -0.05   | -4.00   | -10.77  | -0.72      | -3.30      | 1.20       |
| 2419 | 0           | 20          | -10        | -0.06   | -4.02   | -10.76  | -0.72      | -3.21      | 1.19       |
| 2415 | 0           | 20          | -5         | -0.05   | -4.02   | -10.76  | -0.73      | -3.16      | 1.17       |
| 2399 | 0           | 20          | 0          | -0.03   | -3.98   | -10.78  | -0.69      | -3.01      | 1.16       |
| 2403 | 0           | 20          | 0          | -0.07   | -4.01   | -10.77  | -0.73      | -3.10      | 1.17       |
| 2407 | 0           | 20          | 10         | -0.07   | -3.99   | -10.78  | -0.70      | -3.08      | 1.14       |
| 2411 | 0           | 20          | 15         | -0.07   | -4.00   | -10.77  | -0.72      | -3.12      | 1.18       |
| 2599 | 3           | -10         | -15        | 0.62    | 1.98    | -11.30  | 0.53       | -8.89      | -1.52      |
| 2595 | 3           | -10         | -10        | 0.60    | 1.97    | -11.30  | 0.52       | -8.82      | -1.52      |
| 2590 | 3           | -10         | -5         | 0.50    | 1.96    | -11.31  | 0.42       | -8.62      | -1.52      |
| 2585 | 3           | -10         | 0          | 0.59    | 1.98    | -11.30  | 0.53       | -8.78      | -1.48      |
| 2603 | 3           | -10         | 5          | 0.58    | 2.01    | -11.30  | 0.56       | -8.77      | -1.50      |
| 2607 | 3           | -10         | 10         | 0.58    | 2.00    | -11.30  | 0.54       | -8.84      | -1.51      |
| 2611 | 3           | -10         | 15         | 0.58    | 2.00    | -11.30  | 0.54       | -8.85      | -1.51      |
| 2501 | 3           | 0           | -15        | 0.61    | 0.01    | -11.47  | 0.11       | -9.29      | 0.02       |
| 2497 | 3           | 0           | -10        | 0.58    | -0.01   | -11.48  | 0.10       | -9.25      | 0.03       |
| 2493 | 3           | 0           | -5         | 0.59    | 0.03    | -11.47  | 0.09       | -9.29      | 0.02       |
| 2477 | 3           | 0           | 0          | 0.58    | -0.03   | -11.48  | 0.06       | -9.23      | 0.03       |
| 2481 | 3           | 0           | 5          | 0.54    | -0.02   | -11.48  | 0.10       | -9.25      | 0.05       |
| 2485 | 3           | 0           | 10         | 0.55    | 0.00    | -11.48  | 0.11       | -9.23      | 0.05       |
| 2489 | 3           | 0           | 15         | 0.55    | 0.00    | -11.48  | 0.09       | -9.23      | 0.04       |

\* Indicates model was close to heave stop

TABLE 6.120.2 - STABILITY DATA IN BODY AXES AT PIVOT

10 deg Deadrise, L/R = 0.234, Cv = 0

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 2535 | 3           | 10          | -15        | 0.58    | -1.98   | -11.30  | -0.33      | -8.84      | 1.52       |
| 2519 | 3           | 10          | -10        | 0.58    | -1.97   | -11.30  | -0.33      | -8.88      | 1.56       |
| 2515 | 3           | 10          | -5         | 0.55    | -1.99   | -11.30  | -0.35      | -8.81      | 1.56       |
| 2507 | 3           | 10          | 0          | 0.56    | -1.96   | -11.31  | -0.34      | -8.83      | 1.56       |
| 2511 | 3           | 10          | 5          | 0.54    | -1.96   | -11.31  | -0.32      | -8.82      | 1.58       |
| 2540 | 3           | 10          | 10         | 0.59    | -1.93   | -11.31  | -0.32      | -9.03      | 1.59       |
| 2545 | 3           | 10          | 15         | 0.55    | -1.95   | -11.31  | -0.33      | -8.93      | 1.59       |
| 2578 | 3           | 20          | -15        | 0.60    | -3.92   | -10.78  | -0.57      | -8.08      | 2.93       |
| 2574 | 3           | 20          | -10        | 0.57    | -3.92   | -10.79  | -0.55      | -8.01      | 2.91       |
| 2570 | 3           | 20          | -5         | 0.56    | -3.93   | -10.78  | -0.57      | -8.04      | 2.93       |
| 2566 | 3           | 20          | 0          | 0.60    | -3.89   | -10.80  | -0.54      | -8.03      | 2.93       |
| 2561 | 3           | 20          | 5          | 0.55    | -3.90   | -10.79  | -0.55      | -7.99      | 2.91       |
| 2556 | 3           | 20          | 10         | 0.55    | -3.90   | -10.79  | -0.57      | -7.98      | 2.92       |
| 2552 | 3           | 20          | 15         | 0.59    | -3.85   | -10.81  | -0.54      | -8.03      | 2.90       |
| 3309 | 6           | -10         | -15        | 1.25    | 2.00    | -11.24  | 0.41       | -12.11     | -2.06      |
| 3305 | 6           | -10         | -10        | 1.25    | 2.01    | -11.24  | 0.39       | -12.08     | -2.04      |
| 3301 | 6           | -10         | -5         | 1.21    | 1.97    | -11.25  | 0.39       | -12.18     | -2.10      |
| 3284 | 6           | -10         | 0          | 1.19    | 2.04    | -11.24  | 0.38       | -11.77     | -2.00      |
| 3288 | 6           | -10         | 5          | 1.24    | 2.01    | -11.24  | 0.40       | -12.05     | -2.03      |
| 3293 | 6           | -10         | 10         | 1.22    | 2.02    | -11.24  | 0.42       | -12.08     | -2.05      |
| 3297 | 6           | -10         | 15         | 1.20    | 2.07    | -11.24  | 0.44       | -12.10     | -2.04      |
| 2658 | 6           | 0           | -15        | 1.22    | 0.01    | -11.42  | 0.09       | -12.37     | 0.11       |
| 2654 | 6           | 0           | -10        | 1.20    | 0.04    | -11.43  | 0.17       | -12.42     | 0.04       |
| 2650 | 6           | 0           | -5         | 1.20    | 0.02    | -11.43  | 0.10       | -12.31     | 0.09       |
| 2615 | 6           | 0           | 0          | 1.18    | 0.03    | -11.43  | 0.13       | -12.35     | 0.03       |
| 2620 | 6           | 0           | 5          | 1.20    | 0.03    | -11.43  | 0.14       | -12.44     | 0.07       |
| 2642 | 6           | 0           | 10         | 1.10    | 0.07    | -11.44  | 0.10       | -12.05     | 0.06       |
| 2646 | 6           | 0           | 15         | 1.19    | 0.07    | -11.43  | 0.13       | -12.32     | 0.06       |
| 2688 | 6           | 10          | -15        | 1.21    | -1.95   | -11.26  | -0.18      | -11.90     | 2.17       |
| 2683 | 6           | 10          | -10        | 1.20    | -1.96   | -11.26  | -0.18      | -11.97     | 2.15       |
| 2679 | 6           | 10          | -5         | 1.20    | -1.95   | -11.26  | -0.18      | -11.91     | 2.15       |
| 2663 | 6           | 10          | 0          | 1.19    | -1.83   | -11.28  | -0.10      | -11.98     | 2.20       |
| 2667 | 6           | 10          | 5          | 1.18    | -1.94   | -11.26  | -0.14      | -12.04     | 2.13       |
| 2671 | 6           | 10          | 10         | 1.20    | -1.96   | -11.26  | -0.20      | -11.96     | 2.21       |
| 2675 | 6           | 10          | 15         | 1.19    | -1.95   | -11.26  | -0.21      | -11.96     | 2.20       |
| 2701 | 6           | 20          | -15        | 1.19    | -3.89   | -10.75  | -0.36      | -10.86     | 3.92       |
| 2705 | 6           | 20          | -5         | 1.19    | -3.87   | -10.75  | -0.33      | -10.88     | 3.96       |
| 2695 | 6           | 20          | 0          | 1.22    | -3.89   | -10.74  | -0.38      | -10.78     | 3.91       |
| 2709 | 6           | 20          | 0          | 1.17    | -3.87   | -10.75  | -0.37      | -10.88     | 3.96       |
| 2713 | 6           | 20          | 5          | 1.16    | -3.85   | -10.76  | -0.34      | -10.90     | 3.96       |
| 2717 | 6           | 20          | 10         | 1.17    | -3.84   | -10.76  | -0.33      | -10.85     | 3.93       |
| 2735 | 6           | 20          | 10         | 1.19    | -3.89   | -10.75  | -0.43      | -10.83     | 3.97       |
| 2738 | 6           | 20          | 15         | 1.18    | -3.90   | -10.74  | -0.42      | -10.86     | 4.00       |

\* Indicates model was close to heave stop

TABLE 6.121.1 - STABILITY DATA IN BODY AXES AT PIVOT

10 deg Deadrise, L/R = 0.234, Cv = 1.5

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|--------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 2472   | 0           | -10         | -15        | -1.87   | -0.99   | -11.84  | 0.63       | 3.31       | -2.54      |
| 2463   | 0           | -10         | -10        | -1.62   | 0.30    | -11.61  | 0.59       | 2.48       | -1.87      |
| 2459   | 0           | -10         | -5         | -1.49   | 1.20    | -11.45  | 0.58       | 2.00       | -1.22      |
| 2428   | 0           | -10         | 0          | -0.91   | 1.84    | -11.34  | 0.44       | 1.26       | -0.53      |
| 2432   | 0           | -10         | 5          | -1.37   | 2.54    | -11.22  | 0.31       | 1.81       | -0.05      |
| 2436   | 0           | -10         | 10         | -1.71   | 4.13    | -10.94  | -0.27      | 2.95       | 0.82       |
| 2455 * | 0           | -10         | 15         | -2.66   | 7.76    | -10.30  | -1.58      | 5.17       | 2.88       |
| 2349   | 0           | 0           | -15        | -2.20   | -4.40   | -11.49  | 1.18       | 0.89       | -5.18      |
| 2345   | 0           | 0           | -10        | -1.72   | -1.86   | -11.49  | 0.51       | 0.82       | -2.50      |
| 2341   | 0           | 0           | -5         | -1.54   | -0.84   | -11.49  | 0.26       | 1.00       | -1.33      |
| 2316   | 0           | 0           | 0          | -1.41   | -0.19   | -11.49  | 0.06       | 1.54       | -0.57      |
| 2318   | 0           | 0           | 0          | -1.38   | -0.16   | -11.49  | 0.11       | 1.49       | -0.60      |
| 2330   | 0           | 0           | 5          | -1.44   | 0.32    | -11.49  | -0.06      | 1.83       | -0.13      |
| 2335   | 0           | 0           | 10         | -1.65   | 1.06    | -11.49  | -0.26      | 2.56       | 0.49       |
| 2396   | 0           | 10          | -10        | -1.89   | -5.02   | -10.78  | 0.28       | -0.90      | -3.49      |
| 2391   | 0           | 10          | -5         | -1.54   | -3.08   | -11.12  | -0.30      | -0.14      | -1.75      |
| 2374   | 0           | 10          | 0          | -1.07   | -2.16   | -11.29  | -0.44      | 0.35       | -0.66      |
| 2379   | 0           | 10          | 5          | -1.42   | -1.61   | -11.38  | -0.52      | 1.53       | -0.40      |
| 2383   | 0           | 10          | 10         | -1.59   | -0.80   | -11.53  | -0.51      | 2.69       | 0.03       |
| 2387   | 0           | 10          | 15         | -1.79   | 0.30    | -11.72  | -0.59      | 3.84       | 0.55       |
| 2423 * | 0           | 20          | -15        | -2.62   | -12.86  | -7.55   | 1.63       | -4.76      | -8.66      |
| 2420   | 0           | 20          | -10        | -1.79   | -7.79   | -9.39   | 0.29       | -2.80      | -4.01      |
| 2416   | 0           | 20          | -5         | -1.48   | -5.20   | -10.33  | -0.41      | -1.62      | -1.90      |
| 2400   | 0           | 20          | 0          | -1.17   | -3.97   | -10.78  | -0.62      | -0.69      | -0.93      |
| 2404   | 0           | 20          | 5          | -1.32   | -3.27   | -11.04  | -0.81      | 0.15       | -0.64      |
| 2408   | 0           | 20          | 10         | -1.38   | -2.17   | -11.44  | -0.83      | 1.05       | -0.34      |
| 2412   | 0           | 20          | 15         | -1.53   | -0.97   | -11.88  | -0.79      | 2.47       | -0.11      |
| 2600   | 3           | -10         | -15        | -0.78   | -0.52   | -11.82  | 0.30       | -1.89      | -0.10      |
| 2596   | 3           | -10         | -10        | -0.70   | 0.72    | -11.59  | 0.48       | -3.40      | -1.04      |
| 2591   | 3           | -10         | -5         | -0.75   | 1.55    | -11.45  | 0.41       | -3.69      | -1.42      |
| 2586   | 3           | -10         | 0          | -0.60   | 2.26    | -11.32  | 0.45       | -4.08      | -1.59      |
| 2604   | 3           | -10         | 5          | -0.75   | 3.33    | -11.14  | 0.47       | -3.62      | -1.91      |
| 2608   | 3           | -10         | 10         | -0.93   | 4.81    | -10.88  | 0.04       | -2.56      | -2.36      |
| 2612   | 3           | -10         | 15         | -1.41   | 8.19    | -10.31  | -0.91      | -0.14      | -3.13      |
| 2502   | 3           | 0           | -15        | -0.80   | -1.98   | -11.55  | 0.01       | -3.92      | 0.02       |
| 2498   | 3           | 0           | -10        | -0.73   | -1.07   | -11.54  | -0.02      | -4.61      | -0.11      |
| 2494   | 3           | 0           | -5         | -0.66   | -0.28   | -11.54  | 0.01       | -4.89      | -0.30      |
| 2478   | 3           | 0           | 0          | -0.59   | 0.28    | -11.54  | 0.00       | -4.75      | -0.54      |
| 2482   | 3           | 0           | 5          | -0.74   | 1.04    | -11.54  | 0.10       | -4.24      | -0.92      |
| 2486   | 3           | 0           | 10         | -0.84   | 2.15    | -11.55  | 0.02       | -3.26      | -1.49      |
| 2490   | 3           | 0           | 15         | -1.07   | 3.98    | -11.56  | -0.25      | -1.36      | -2.31      |

\* Indicates model was close to heave stop

TABLE 6.121.2 - STABILITY DATA IN BODY AXES AT PIVOT

10 deg Deadrise, L/R = 0.234, Cv = 1.5

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 2536 | 3           | 10          | -15        | -0.88   | -5.11   | -10.83  | 0.36       | -5.31      | 0.40       |
| 2520 | 3           | 10          | -10        | -0.80   | -3.30   | -11.14  | -0.14      | -5.55      | 0.53       |
| 2516 | 3           | 10          | -5         | -0.76   | -2.25   | -11.33  | -0.37      | -5.44      | 0.59       |
| 2508 | 3           | 10          | 0          | -0.70   | -1.50   | -11.46  | -0.37      | -5.16      | 0.41       |
| 2512 | 3           | 10          | 5          | -0.71   | -0.75   | -11.59  | -0.32      | -4.69      | 0.07       |
| 2541 | 3           | 10          | 10         | -0.75   | 0.21    | -11.76  | -0.25      | -4.23      | -0.52      |
| 2546 | 3           | 10          | 15         | -0.90   | 1.39    | -11.98  | -0.14      | -2.80      | -1.50      |
| 2579 | 3           | 20          | -15        | -1.05   | -9.08   | -9.00   | 0.84       | -5.68      | 0.51       |
| 2575 | 3           | 20          | -10        | -0.84   | -5.77   | -10.19  | -0.06      | -5.72      | 1.11       |
| 2571 | 3           | 20          | -5         | -0.81   | -4.29   | -10.73  | -0.52      | -5.52      | 1.26       |
| 2567 | 3           | 20          | 0          | -0.81   | -3.35   | -11.07  | -0.63      | -5.18      | 1.08       |
| 2562 | 3           | 20          | 5          | -0.82   | -2.21   | -11.48  | -0.74      | -4.91      | 0.65       |
| 2557 | 3           | 20          | 10         | -0.85   | -1.18   | -11.86  | -0.73      | -4.63      | 0.14       |
| 2558 | 3           | 20          | 10         | -0.85   | -1.16   | -11.87  | -0.68      | -4.66      | 0.12       |
| 2553 | 3           | 20          | 15         | -0.81   | -0.31   | -12.18  | -0.44      | -4.38      | -0.48      |
| 3310 | 6           | -10         | -15        | -0.26   | -0.78   | -11.90  | 0.20       | -7.13      | 0.95       |
| 3306 | 6           | -10         | -10        | -0.24   | 0.28    | -11.71  | 0.33       | -7.81      | -0.27      |
| 3302 | 6           | -10         | -5         | -0.35   | 1.43    | -11.52  | 0.41       | -8.27      | -1.65      |
| 3285 | 6           | -10         | 0          | -0.46   | 2.55    | -11.33  | 0.40       | -8.11      | -2.58      |
| 3289 | 6           | -10         | 5          | -0.45   | 3.78    | -11.11  | 0.47       | -7.65      | -3.51      |
| 3294 | 6           | -10         | 10         | -0.61   | 5.72    | -10.79  | 0.26       | -6.70      | -5.02      |
| 3298 | 6           | -10         | 15         | -0.77   | 8.79    | -10.26  | -0.14      | -5.19      | -7.06      |
| 2659 | 6           | 0           | -15        | -0.35   | -2.27   | -11.59  | -0.03      | -7.84      | 2.08       |
| 2655 | 6           | 0           | -10        | -0.32   | -1.19   | -11.59  | 0.04       | -8.39      | 1.05       |
| 2651 | 6           | 0           | -5         | -0.26   | -0.15   | -11.58  | 0.11       | -8.60      | 0.06       |
| 2616 | 6           | 0           | 0          | -0.29   | 0.71    | -11.58  | 0.11       | -8.74      | -0.95      |
| 2621 | 6           | 0           | 5          | -0.31   | 1.68    | -11.59  | 0.21       | -8.21      | -1.92      |
| 2643 | 6           | 0           | 10         | -0.36   | 2.87    | -11.59  | 0.22       | -7.52      | -3.05      |
| 2647 | 6           | 0           | 15         | -0.57   | 4.82    | -11.61  | 0.19       | -6.62      | -4.87      |
| 2689 | 6           | 10          | -15        | -0.44   | -4.56   | -10.97  | -0.04      | -8.30      | 3.51       |
| 2684 | 6           | 10          | -10        | -0.46   | -2.99   | -11.25  | -0.22      | -8.76      | 2.40       |
| 2680 | 6           | 10          | -5         | -0.46   | -1.90   | -11.45  | -0.20      | -8.80      | 1.56       |
| 2664 | 6           | 10          | 0          | -0.45   | -0.78   | -11.64  | -0.12      | -8.85      | 0.70       |
| 2668 | 6           | 10          | 5          | -0.44   | 0.16    | -11.81  | -0.13      | -8.70      | -0.47      |
| 2672 | 6           | 10          | 10         | -0.40   | 1.05    | -11.96  | -0.03      | -8.06      | -1.46      |
| 2676 | 6           | 10          | 15         | -0.39   | 1.78    | -12.09  | 0.09       | -7.78      | -2.32      |
| 2702 | 6           | 20          | -15        | -0.49   | -7.27   | -9.71   | 0.19       | -7.70      | 4.69       |
| 2696 | 6           | 20          | -10        | -0.39   | -5.24   | -10.43  | -0.25      | -8.28      | 3.74       |
| 2697 | 6           | 20          | -10        | -0.46   | -5.28   | -10.42  | -0.24      | -8.29      | 3.73       |
| 2706 | 6           | 20          | -5         | -0.46   | -3.89   | -10.93  | -0.41      | -8.61      | 2.94       |
| 2710 | 6           | 20          | 0          | -0.46   | -2.48   | -11.44  | -0.49      | -8.80      | 1.88       |
| 2714 | 6           | 20          | 5          | -0.47   | -1.09   | -11.95  | -0.51      | -8.89      | 0.67       |
| 2718 | 6           | 20          | 10         | -0.42   | -0.29   | -12.24  | -0.30      | -8.59      | -0.32      |
| 2739 | 6           | 20          | 15         | -0.38   | -0.07   | -12.31  | -0.18      | -8.56      | -0.53      |

\* Indicates model was close to heave stop

TABLE 6.123.1 - STABILITY DATA IN BODY AXES AT PIVOT

10 deg Deadrise, L/R = 0.234, Cv = 3

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|--------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 2473   | 0           | -10         | -15        | -4.89   | -4.54   | -12.47  | -0.74      | 16.99      | -2.67      |
| 2464   | 0           | -10         | -10        | -5.37   | -3.18   | -12.23  | -0.13      | 15.24      | -2.61      |
| 2470   | 0           | -10         | -10        | -5.28   | -3.15   | -12.22  | -0.21      | 15.04      | -2.59      |
| 2460   | 0           | -10         | -5         | -4.73   | -0.87   | -11.82  | 0.17       | 10.19      | -2.55      |
| 2429   | 0           | -10         | 0          | -3.80   | 1.79    | -11.35  | 0.33       | 6.93       | -2.36      |
| 2433   | 0           | -10         | 5          | -5.79   | 6.79    | -10.47  | -0.46      | 10.44      | -3.67      |
| 2437 * | 0           | -10         | 10         | -7.94   | 20.33   | -8.08   | -2.66      | 14.08      | -2.07      |
| 2457 * | 0           | -10         | 15         | -8.41   | 32.39   | -5.96   | -5.73      | 19.71      | -0.00      |
| 2350 * | 0           | 0           | -15        | -8.96   | -24.14  | -11.49  | 3.31       | 5.34       | -20.29     |
| 2346   | 0           | 0           | -10        | -6.58   | -8.95   | -11.49  | 1.08       | 6.46       | -7.38      |
| 2342   | 0           | 0           | -5         | -4.92   | -2.92   | -11.49  | 0.13       | 5.05       | -2.36      |
| 2319   | 0           | 0           | 0          | -4.16   | -0.03   | -11.49  | 0.12       | 5.19       | -1.76      |
| 2320   | 0           | 0           | 0          | -3.98   | -0.10   | -11.49  | 0.07       | 4.94       | -1.68      |
| 2331   | 0           | 0           | 5          | -4.91   | 3.01    | -11.49  | -0.27      | 8.36       | -2.74      |
| 2332   | 0           | 0           | 5          | -4.92   | 3.01    | -11.49  | -0.25      | 8.32       | -2.76      |
| 2337 * | 0           | 0           | 10         | -7.66   | 15.95   | -11.49  | -1.88      | 12.34      | -6.43      |
| 2338 * | 0           | 0           | 10         | -7.77   | 15.95   | -11.49  | -1.84      | 12.55      | -6.52      |
| 2397 * | 0           | 10          | -10        | -8.08   | -20.12  | -8.12   | 2.76       | -6.69      | -19.10     |
| 2392   | 0           | 10          | -5         | -5.14   | -5.86   | -10.63  | 0.36       | -1.20      | -3.98      |
| 2375   | 0           | 10          | 0          | -4.07   | -2.06   | -11.30  | -0.14      | 1.66       | -1.11      |
| 2380   | 0           | 10          | 5          | -4.27   | 0.18    | -11.70  | -0.18      | 5.89       | -1.19      |
| 2384   | 0           | 10          | 10         | -4.66   | 3.38    | -12.26  | 0.03       | 9.49       | -2.75      |
| 2388   | 0           | 10          | 15         | -3.92   | 3.37    | -12.26  | 1.04       | 8.81       | -1.64      |
| 2421 * | 0           | 20          | -10        | -8.23   | -25.02  | -3.12   | 3.45       | -13.31     | -23.60     |
| 2417   | 0           | 20          | -5         | -5.07   | -9.20   | -8.88   | 0.62       | -6.23      | -6.35      |
| 2401   | 0           | 20          | 0          | -4.20   | -4.20   | -10.70  | -0.40      | -1.46      | -1.74      |
| 2405   | 0           | 20          | 5          | -3.88   | -0.91   | -11.89  | -0.65      | 1.01       | -0.61      |
| 2409   | 0           | 20          | 10         | -3.19   | 0.19    | -12.30  | -0.17      | 1.55       | -1.60      |
| 2413   | 0           | 20          | 15         | -2.55   | 0.23    | -12.30  | -0.60      | -0.96      | -1.55      |
| 2601   | 3           | -10         | -15        | -1.02   | -0.64   | -11.85  | -0.04      | -4.94      | 0.50       |
| 2597   | 3           | -10         | -10        | -1.37   | -0.24   | -11.80  | 0.26       | -1.17      | 0.12       |
| 2592   | 3           | -10         | -5         | -1.61   | 0.32    | -11.71  | 0.59       | 0.52       | -0.09      |
| 2587   | 3           | -10         | 0          | -1.95   | 2.91    | -11.27  | 0.73       | -0.24      | -2.62      |
| 2605   | 3           | -10         | 5          | -2.60   | 7.25    | -10.54  | 0.41       | 1.70       | -5.75      |
| 2609   | 3           | -10         | 10         | -3.91   | 15.60   | -9.14   | -0.65      | 7.03       | -10.36     |
| 2613 * | 3           | -10         | 15         | -6.90   | 36.02   | -5.70   | -3.90      | 20.02      | -12.09     |
| 2503   | 3           | 0           | -15        | -2.39   | -4.46   | -11.63  | -0.58      | -0.59      | 1.60       |
| 2499   | 3           | 0           | -10        | -2.10   | -2.01   | -11.62  | -0.42      | -1.56      | 0.49       |
| 2495   | 3           | 0           | -5         | -1.79   | -0.55   | -11.60  | -0.12      | -1.97      | -0.16      |
| 2479   | 3           | 0           | 0          | -1.69   | 0.81    | -11.59  | 0.22       | -2.07      | -1.26      |
| 2483   | 3           | 0           | 5          | -2.02   | 2.88    | -11.61  | 0.45       | -1.63      | -3.10      |
| 2487   | 3           | 0           | 10         | -2.43   | 6.49    | -11.63  | 0.49       | 0.16       | -6.23      |
| 2491   | 3           | 0           | 15         | -3.16   | 12.98   | -11.67  | 0.11       | 4.29       | -11.25     |

\* Indicates model was close to heave stop

TABLE 6.123.2 - STABILITY DATA IN BODY AXES AT PIVOT

10 deg Deadrise, L/R = 0.234, Cv = 3

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 2537 | 3           | 10          | -15        | -3.97   | -17.03  | -8.89   | 2.05       | -2.70      | -2.23      |
| 2521 | 3           | 10          | -10        | -2.88   | -5.82   | -10.81  | -0.02      | -3.98      | 0.65       |
| 2517 | 3           | 10          | -5         | -2.37   | -2.27   | -11.41  | -0.39      | -4.35      | 0.80       |
| 2509 | 3           | 10          | 0          | -1.87   | -0.19   | -11.75  | -0.23      | -4.28      | -0.49      |
| 2513 | 3           | 10          | 5          | -1.51   | 0.44    | -11.84  | 0.28       | -5.94      | -0.77      |
| 2542 | 3           | 10          | 10         | -1.13   | 1.04    | -11.93  | 0.63       | -9.83      | -1.12      |
| 2547 | 3           | 10          | 15         | -0.87   | 1.19    | -11.94  | 0.55       | -13.06     | -1.47      |
| 2580 | 3           | 20          | -15        | -4.37   | -29.17  | -1.87   | 5.16       | -9.66      | -10.01     |
| 2576 | 3           | 20          | -10        | -3.00   | -9.83   | -8.83   | 0.90       | -5.87      | -0.33      |
| 2572 | 3           | 20          | -5         | -2.51   | -4.57   | -10.72  | -0.44      | -5.38      | 1.15       |
| 2568 | 3           | 20          | 0          | -2.08   | -1.58   | -11.79  | -0.61      | -6.42      | 0.52       |
| 2563 | 3           | 20          | 5          | -1.25   | -0.15   | -12.26  | -0.45      | -8.45      | -0.37      |
| 2564 | 3           | 20          | 5          | -1.22   | -0.10   | -12.27  | -0.46      | -8.46      | -0.39      |
| 2559 | 3           | 20          | 10         | -0.90   | -0.14   | -12.24  | -0.58      | -11.62     | -0.15      |
| 2554 | 3           | 20          | 15         | -0.66   | -0.59   | -12.07  | -0.86      | -13.81     | 0.62       |
| 3311 | 6           | -10         | -15        | -0.34   | -0.40   | -11.84  | -0.08      | -14.24     | 0.39       |
| 3307 | 6           | -10         | -10        | -0.50   | -0.07   | -11.80  | 0.12       | -12.01     | 0.12       |
| 3303 | 6           | -10         | -5         | -0.67   | 0.51    | -11.71  | 0.51       | -9.54      | -0.18      |
| 3286 | 6           | -10         | 0          | -1.12   | 2.36    | -11.44  | 0.71       | -8.22      | -2.75      |
| 3291 | 6           | -10         | 5          | -1.57   | 5.79    | -10.88  | 0.82       | -6.66      | -6.45      |
| 3295 | 6           | -10         | 10         | -2.00   | 12.32   | -9.77   | 0.56       | -3.26      | -12.72     |
| 3299 | 6           | -10         | 15         | -2.73   | 25.38   | -7.55   | -0.47      | 3.69       | -21.63     |
| 2660 | 6           | 0           | -15        | -0.59   | -1.03   | -11.62  | -0.49      | -11.10     | 1.07       |
| 2656 | 6           | 0           | -10        | -0.32   | -0.39   | -11.59  | -0.12      | -11.35     | 0.34       |
| 2652 | 6           | 0           | -5         | -0.39   | 0.05    | -11.59  | 0.22       | -11.69     | -0.05      |
| 2617 | 6           | 0           | 0          | -0.62   | 0.43    | -11.62  | 0.54       | -11.61     | -0.43      |
| 2618 | 6           | 0           | 0          | -0.48   | 0.46    | -11.60  | 0.53       | -11.74     | -0.41      |
| 2622 | 6           | 0           | 5          | -0.54   | 1.11    | -11.61  | 0.82       | -11.96     | -1.31      |
| 2644 | 6           | 0           | 10         | -0.68   | 2.29    | -11.62  | 1.07       | -11.97     | -2.85      |
| 2648 | 6           | 0           | 15         | -0.92   | 4.05    | -11.65  | 1.26       | -11.35     | -5.17      |
| 2690 | 6           | 10          | -15        | -1.39   | -5.13   | -10.98  | -0.35      | -7.45      | 4.53       |
| 2685 | 6           | 10          | -10        | -1.14   | -1.67   | -11.56  | -0.47      | -9.31      | 1.33       |
| 2681 | 6           | 10          | -5         | -0.98   | 0.10    | -11.85  | -0.27      | -11.04     | -0.45      |
| 2665 | 6           | 10          | 0          | -0.57   | -0.07   | -11.78  | 0.07       | -13.27     | -0.04      |
| 2669 | 6           | 10          | 5          | -0.56   | 0.35    | -11.85  | 0.32       | -15.65     | -0.38      |
| 2673 | 6           | 10          | 10         | -0.46   | 0.43    | -11.86  | 0.27       | -16.53     | -0.45      |
| 2677 | 6           | 10          | 15         | -0.37   | 0.66    | -11.89  | 0.27       | -17.64     | -0.63      |
| 2703 | 6           | 20          | -15        | -2.16   | -14.17  | -7.38   | 1.13       | -5.59      | 7.92       |
| 2698 | 6           | 20          | -10        | -1.75   | -5.69   | -10.42  | -0.35      | -7.92      | 3.83       |
| 2707 | 6           | 20          | -5         | -1.42   | -1.63   | -11.86  | -0.56      | -10.01     | 0.98       |
| 2711 | 6           | 20          | 0          | -0.97   | 0.69    | -12.66  | -0.57      | -13.02     | -1.15      |
| 2715 | 6           | 20          | 5          | -0.63   | -0.24   | -12.28  | -0.46      | -15.52     | 0.48       |
| 2719 | 6           | 20          | 10         | -0.37   | -0.65   | -12.10  | -0.62      | -16.42     | 1.08       |
| 2740 | 6           | 20          | 15         | -0.30   | -0.83   | -12.03  | -0.77      | -17.33     | 1.54       |

\* Indicates model was close to heave stop



TABLE 6.124.1 - STABILITY DATA IN BODY AXES AT PIVOT

10 deg Deadrise, L/R = 0.234, Cv = 4

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|--------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 2474   | 0           | -10         | -15        | -5.11   | -5.16   | -12.58  | -1.59      | 22.00      | -2.78      |
| 2468   | 0           | -10         | -10        | -8.13   | -4.77   | -12.51  | -0.81      | 28.81      | -5.15      |
| 2469   | 0           | -10         | -10        | -8.24   | -4.88   | -12.53  | -0.84      | 28.98      | -5.16      |
| 2461   | 0           | -10         | -5         | -7.31   | -2.13   | -12.04  | -0.26      | 23.32      | -3.32      |
| 2430   | 0           | -10         | 0          | -5.92   | 1.00    | -11.49  | 0.25       | 14.44      | -2.83      |
| 2434   | 0           | -10         | 5          | -10.68  | 13.11   | -9.36   | -0.86      | 18.85      | -8.39      |
| 2352   | 0           | 0           | -15        | -14.48  | -37.24  | -11.49  | 5.63       | 11.87      | -35.32     |
| 2347   | 0           | 0           | -10        | -10.15  | -12.88  | -11.49  | 1.55       | 14.71      | -12.47     |
| 2343   | 0           | 0           | -5         | -7.95   | -4.10   | -11.49  | 0.00       | 13.13      | -4.34      |
| 2322   | 0           | 0           | 0          | -5.88   | -0.32   | -11.49  | 0.28       | 11.19      | -2.43      |
| 2323   | 0           | 0           | 0          | -5.89   | -0.21   | -11.49  | 0.38       | 11.60      | -2.44      |
| 2324   | 0           | 0           | 0          | -5.67   | -0.19   | -11.49  | 0.26       | 11.30      | -2.36      |
| 2326   | 0           | 0           | 0          | -5.86   | -0.21   | -11.49  | 0.25       | 11.35      | -2.46      |
| 2327   | 0           | 0           | 0          | -6.05   | -0.31   | -11.49  | 0.27       | 11.32      | -2.44      |
| 2328   | 0           | 0           | 0          | -5.79   | -0.42   | -11.49  | 0.22       | 11.34      | -2.37      |
| 2333   | 0           | 0           | 5          | -7.77   | 5.41    | -11.49  | -0.25      | 15.84      | -6.08      |
| 2339 * | 0           | 0           | 10         | -11.79  | 25.04   | -11.49  | -2.26      | 21.17      | -11.45     |
| 2394   | 0           | 10          | -5         | -8.61   | -8.55   | -10.16  | 0.86       | 0.85       | -9.08      |
| 2376   | 0           | 10          | 0          | -6.43   | -1.64   | -11.38  | 0.08       | 4.13       | -1.98      |
| 2377   | 0           | 10          | 0          | -6.57   | -1.65   | -11.38  | 0.01       | 4.55       | -2.03      |
| 2381   | 0           | 10          | 5          | -6.62   | 1.59    | -11.95  | 0.23       | 11.62      | -2.67      |
| 2385   | 0           | 10          | 10         | -5.30   | 3.31    | -12.25  | 1.15       | 12.48      | -2.47      |
| 2389   | 0           | 10          | 15         | -3.51   | 3.41    | -12.27  | 1.60       | 5.18       | -1.71      |
| 2418   | 0           | 20          | -5         | -8.75   | -13.74  | -7.23   | 1.73       | -10.28     | -15.03     |
| 2402   | 0           | 20          | 0          | -6.81   | -3.73   | -10.87  | -0.14      | -1.10      | -4.25      |
| 2406   | 0           | 20          | 5          | -5.56   | 1.57    | -12.80  | -0.52      | 1.38       | -1.04      |
| 2410   | 0           | 20          | 10         | -3.64   | 1.03    | -12.60  | -0.73      | -0.48      | -1.52      |
| 2414   | 0           | 20          | 15         | -1.98   | -0.56   | -12.02  | -1.47      | -5.21      | -0.18      |
| 2602   | 3           | -10         | -15        | -0.78   | -1.11   | -11.92  | 0.04       | -11.35     | 1.04       |
| 2598   | 3           | -10         | -10        | -1.30   | -0.59   | -11.86  | 0.30       | -4.95      | 0.50       |
| 2593   | 3           | -10         | -5         | -1.95   | -0.04   | -11.79  | 0.72       | 2.00       | 0.14       |
| 2588   | 3           | -10         | 0          | -2.52   | 3.26    | -11.24  | 1.04       | 2.71       | -3.18      |
| 2606   | 3           | -10         | 5          | -3.86   | 10.97   | -9.95   | 0.58       | 6.67       | -9.22      |
| 2610   | 3           | -10         | 10         | -5.90   | 24.75   | -7.63   | -1.16      | 15.95      | -16.91     |
| 2504   | 3           | 0           | -15        | -3.41   | -5.28   | -11.68  | -1.05      | 0.22       | 1.83       |
| 2500   | 3           | 0           | -10        | -2.95   | -1.57   | -11.66  | -0.72      | -0.64      | -0.42      |
| 2496   | 3           | 0           | -5         | -2.41   | -0.10   | -11.63  | -0.20      | -0.25      | -0.75      |
| 2480   | 3           | 0           | 0          | -2.14   | 1.12    | -11.62  | 0.48       | -1.49      | -1.41      |
| 2484   | 3           | 0           | 5          | -2.49   | 3.94    | -11.64  | 0.89       | -2.20      | -4.15      |
| 2488   | 3           | 0           | 10         | -3.02   | 8.18    | -11.66  | 1.10       | -0.53      | -8.22      |
| 2492   | 3           | 0           | 15         | -3.67   | 15.62   | -11.70  | 0.86       | 3.87       | -15.17     |

\* Indicates model was close to heave stop

TABLE 6.124.2 - STABILITY DATA IN BODY AXES AT PIVOT

10 deg Deadrise, L/R = 0.234, Cv = 4

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 2538 | 3           | 10          | -15        | -6.33   | -28.48  | -7.00   | 3.44       | 1.00       | -5.88      |
| 2522 | 3           | 10          | -10        | -4.80   | -7.62   | -10.60  | 0.19       | -1.47      | -2.16      |
| 2518 | 3           | 10          | -5         | -3.80   | -0.66   | -11.77  | -0.50      | -2.81      | -1.38      |
| 2510 | 3           | 10          | 0          | -2.04   | 0.68    | -11.91  | 0.01       | -6.50      | -0.65      |
| 2514 | 3           | 10          | 5          | -1.18   | 1.34    | -11.98  | 0.51       | -12.91     | -1.13      |
| 2543 | 3           | 10          | 10         | -0.80   | 1.53    | -12.00  | 0.37       | -16.23     | -1.31      |
| 2544 | 3           | 10          | 10         | -0.73   | 1.38    | -11.97  | 0.31       | -15.84     | -1.18      |
| 2548 | 3           | 10          | 15         | -0.64   | 1.48    | -11.98  | 0.12       | -17.49     | -1.19      |
| 2549 | 3           | 10          | 15         | -0.64   | 1.44    | -11.97  | 0.11       | -17.56     | -1.24      |
| 2577 | 3           | 20          | -10        | -4.74   | -14.13  | -7.37   | 2.02       | -5.71      | -3.96      |
| 2573 | 3           | 20          | -5         | -3.94   | -3.63   | -11.14  | -0.47      | -5.18      | -1.21      |
| 2569 | 3           | 20          | 0          | -2.89   | 0.87    | -12.72  | -0.75      | -8.40      | -1.21      |
| 2565 | 3           | 20          | 5          | -0.95   | -0.10   | -12.26  | -0.78      | -12.58     | 0.35       |
| 2560 | 3           | 20          | 10         | -0.53   | -0.43   | -12.12  | -1.14      | -16.48     | 1.51       |
| 2555 | 3           | 20          | 15         | -0.21   | -1.13   | -11.85  | -1.41      | -17.97     | 2.73       |
| 3312 | 6           | -10         | -15        | -0.31   | -0.59   | -11.87  | 0.18       | -20.89     | -0.08      |
| 3308 | 6           | -10         | -10        | -0.29   | -0.04   | -11.77  | 0.32       | -18.49     | -0.34      |
| 3304 | 6           | -10         | -5         | -0.64   | 0.49    | -11.71  | 0.70       | -15.34     | -0.49      |
| 3287 | 6           | -10         | 0          | -1.48   | 2.25    | -11.49  | 1.06       | -12.08     | -2.90      |
| 3292 | 6           | -10         | 5          | -1.97   | 6.64    | -10.77  | 1.18       | -8.98      | -7.99      |
| 3296 | 6           | -10         | 10         | -2.61   | 15.49   | -9.28   | 0.83       | -3.29      | -17.53     |
| 2661 | 6           | 0           | -15        | -0.07   | -0.77   | -11.56  | -0.51      | -17.62     | 1.15       |
| 2657 | 6           | 0           | -10        | -0.19   | -0.14   | -11.57  | -0.03      | -18.45     | 0.54       |
| 2653 | 6           | 0           | -5         | -0.22   | 0.32    | -11.58  | 0.32       | -18.71     | -0.07      |
| 2619 | 6           | 0           | 0          | -0.35   | 0.80    | -11.59  | 0.75       | -18.97     | -0.78      |
| 2623 | 6           | 0           | 5          | -0.29   | 1.35    | -11.58  | 1.17       | -19.15     | -1.41      |
| 2645 | 6           | 0           | 10         | -0.36   | 2.25    | -11.59  | 1.61       | -19.06     | -2.64      |
| 2649 | 6           | 0           | 15         | -0.55   | 3.16    | -11.61  | 1.99       | -18.45     | -4.02      |
| 2691 | 6           | 10          | -15        | -1.69   | -5.50   | -10.94  | -0.62      | -9.88      | 6.07       |
| 2743 | 6           | 10          | -15        | -1.70   | -5.29   | -10.98  | -0.64      | -9.83      | 5.92       |
| 2686 | 6           | 10          | -10        | -1.26   | -0.85   | -11.72  | -0.62      | -13.52     | 1.14       |
| 2687 | 6           | 10          | -10        | -1.33   | -0.80   | -11.73  | -0.60      | -13.54     | 1.14       |
| 2682 | 6           | 10          | -5         | -0.64   | 0.23    | -11.84  | -0.24      | -17.00     | 0.22       |
| 2666 | 6           | 10          | 0          | -0.10   | 0.18    | -11.77  | -0.13      | -19.13     | 0.51       |
| 2670 | 6           | 10          | 5          | -0.15   | 0.36    | -11.81  | -0.11      | -20.12     | 0.41       |
| 2674 | 6           | 10          | 10         | -0.23   | 0.67    | -11.87  | -0.12      | -21.53     | 0.18       |
| 2678 | 6           | 10          | 15         | 0.01    | 0.61    | -11.84  | -0.19      | -21.51     | 0.14       |
| 2704 | 6           | 20          | -15        | -3.39   | -21.63  | -4.80   | 2.08       | -3.86      | 11.76      |
| 2699 | 6           | 20          | -10        | -2.36   | -5.73   | -10.47  | -0.40      | -9.40      | 4.79       |
| 2700 | 6           | 20          | -10        | -2.45   | -5.63   | -10.52  | -0.44      | -9.49      | 4.60       |
| 2708 | 6           | 20          | -5         | -1.59   | 0.23    | -12.56  | -0.76      | -13.94     | -0.22      |
| 2712 | 6           | 20          | 0          | -0.96   | 1.85    | -13.08  | -0.99      | -17.37     | -1.76      |
| 2716 | 6           | 20          | 5          | -0.30   | -0.21   | -12.25  | -0.97      | -20.07     | 2.01       |
| 2737 | 6           | 20          | 5          | -0.10   | -0.52   | -12.12  | -0.96      | -19.22     | 1.95       |
| 2736 | 6           | 20          | 10         | 0.04    | -0.74   | -12.02  | -1.25      | -20.85     | 2.83       |
| 2741 | 6           | 20          | 15         | 0.12    | -1.20   | -11.85  | -1.21      | -20.80     | 3.39       |

\* Indicates model was close to heave stop

TABLE 6.200.1 - STABILITY DATA IN BODY AXES AT PIVOT

20 deg Deadrise, L/R = 0.000, Cv = 0

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 1708 | -2          | -10         | 0          | -0.46   | 1.95    | -11.31  | 0.38       | 0.02       | 0.00       |
| 1712 | -2          | -10         | 5          | -0.43   | 1.99    | -11.31  | 0.45       | -0.00      | 0.00       |
| 1715 | -2          | -10         | 10         | -0.42   | 1.95    | -11.31  | 0.42       | 0.03       | 0.01       |
| 1717 | -2          | -10         | 15         | -0.42   | 1.96    | -11.31  | 0.40       | 0.01       | -0.01      |
| 1644 | -2          | 0           | 0          | -0.43   | -0.04   | -11.48  | -0.02      | 0.23       | 0.02       |
| 1649 | -2          | 0           | 5          | -0.43   | -0.02   | -11.48  | -0.01      | 0.19       | 0.01       |
| 1652 | -2          | 0           | 10         | -0.44   | -0.03   | -11.48  | -0.01      | 0.16       | 0.01       |
| 1655 | -2          | 0           | 15         | -0.45   | -0.04   | -11.48  | -0.01      | 0.11       | 0.00       |
| 1659 | -2          | 10          | 0          | -0.44   | -2.04   | -11.30  | -0.45      | -0.12      | 0.07       |
| 1663 | -2          | 10          | 5          | -0.43   | -2.01   | -11.30  | -0.44      | -0.14      | 0.06       |
| 1682 | -2          | 10          | 10         | -0.44   | -2.08   | -11.29  | -0.49      | -0.12      | 0.05       |
| 1687 | -2          | 10          | 15         | -0.44   | -2.01   | -11.30  | -0.43      | -0.22      | 0.05       |
| 1691 | -2          | 20          | 0          | -0.44   | -3.96   | -10.78  | -0.59      | -0.44      | 0.20       |
| 1695 | -2          | 20          | 5          | -0.45   | -3.97   | -10.77  | -0.58      | -0.38      | 0.18       |
| 1700 | -2          | 20          | 10         | -0.43   | -3.96   | -10.78  | -0.58      | -0.41      | 0.18       |
| 1702 | -2          | 20          | 15         | -0.43   | -3.93   | -10.79  | -0.49      | -0.42      | 0.19       |
| 1626 | 0           | -10         | 0          | 0.00    | 1.99    | -11.32  | 0.41       | -4.00      | -0.68      |
| 1630 | 0           | -10         | 5          | 0.01    | 2.01    | -11.31  | 0.44       | -3.99      | -0.70      |
| 1634 | 0           | -10         | 10         | 0.00    | 2.01    | -11.31  | 0.43       | -3.98      | -0.68      |
| 1638 | 0           | -10         | 15         | 0.00    | 2.01    | -11.31  | 0.44       | -4.07      | -0.71      |
| 1558 | 0           | 0           | 0          | 0.00    | -0.02   | -11.49  | -0.02      | -4.16      | 0.04       |
| 1563 | 0           | 0           | 5          | 0.00    | 0.00    | -11.49  | 0.01       | -4.19      | 0.02       |
| 1567 | 0           | 0           | 10         | -0.01   | 0.00    | -11.49  | 0.00       | -4.11      | 0.02       |
| 1571 | 0           | 0           | 15         | -0.01   | 0.00    | -11.49  | 0.00       | -4.19      | 0.03       |
| 1578 | 0           | 10          | 0          | -0.02   | -2.01   | -11.31  | -0.48      | -4.20      | 0.77       |
| 1581 | 0           | 10          | 5          | -0.01   | -2.00   | -11.32  | -0.45      | -4.22      | 0.78       |
| 1587 | 0           | 10          | 10         | 0.00    | -1.99   | -11.32  | -0.46      | -4.13      | 0.75       |
| 1590 | 0           | 10          | 15         | 0.01    | -1.98   | -11.32  | -0.45      | -4.14      | 0.76       |
| 1606 | 0           | 20          | 0          | 0.00    | -3.96   | -10.79  | -0.59      | -3.95      | 1.47       |
| 1610 | 0           | 20          | 5          | -0.01   | -3.93   | -10.80  | -0.60      | -3.99      | 1.46       |
| 1614 | 0           | 20          | 10         | 0.00    | -3.93   | -10.80  | -0.59      | -3.99      | 1.47       |
| 1618 | 0           | 20          | 15         | 0.00    | -3.93   | -10.80  | -0.59      | -4.00      | 1.49       |
| 1396 | 3           | -10         | 0          | 0.59    | 2.02    | -11.30  | 0.36       | -8.99      | -1.55      |
| 1392 | 3           | -10         | 5          | 0.60    | 2.03    | -11.29  | 0.36       | -8.97      | -1.53      |
| 1389 | 3           | -10         | 10         | 0.60    | 2.02    | -11.29  | 0.34       | -9.03      | -1.54      |
| 1383 | 3           | -10         | 15         | 0.63    | 2.01    | -11.29  | 0.33       | -8.95      | -1.51      |
| 1401 | 3           | 0           | 0          | 0.59    | 0.04    | -11.47  | -0.00      | -9.49      | 0.04       |
| 1404 | 3           | 0           | 0          | 0.59    | 0.05    | -11.47  | 0.01       | -9.48      | 0.04       |
| 1408 | 3           | 0           | 5          | 0.59    | 0.03    | -11.47  | -0.02      | -9.41      | 0.05       |
| 1412 | 3           | 0           | 10         | 0.60    | 0.04    | -11.47  | -0.00      | -9.38      | 0.03       |
| 1416 | 3           | 0           | 15         | 0.60    | 0.04    | -11.47  | -0.00      | -9.40      | 0.03       |

\* Indicates model was close to heave stop

TABLE 6.200.2 - STABILITY DATA IN BODY AXES AT PIVOT

20 deg Deadrise, L/R = 0.000, Cv = 0

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 1435 | 3           | 10          | 0          | 0.60    | -2.00   | -11.30  | -0.39      | -8.96      | 1.61       |
| 1441 | 3           | 10          | 5          | 0.61    | -1.97   | -11.30  | -0.37      | -9.06      | 1.62       |
| 1444 | 3           | 10          | 10         | 0.60    | -1.96   | -11.31  | -0.38      | -9.00      | 1.62       |
| 1448 | 3           | 10          | 15         | 0.61    | -1.96   | -11.30  | -0.38      | -8.99      | 1.61       |
| 1456 | 3           | 20          | 0          | 0.65    | -3.89   | -10.79  | -0.54      | -8.36      | 3.10       |
| 1460 | 3           | 20          | 5          | 0.59    | -3.92   | -10.78  | -0.57      | -8.34      | 3.05       |
| 1464 | 3           | 20          | 10         | 0.60    | -3.91   | -10.79  | -0.57      | -8.36      | 3.04       |
| 1468 | 3           | 20          | 15         | 0.60    | -3.91   | -10.79  | -0.57      | -8.35      | 3.04       |
| 1540 | 6           | -10         | 0          | 1.21    | 2.04    | -11.24  | 0.26       | -12.01     | -2.04      |
| 1544 | 6           | -10         | 5          | 1.20    | 2.03    | -11.24  | 0.26       | -11.80     | -2.02      |
| 1548 | 6           | -10         | 10         | 1.21    | 2.05    | -11.24  | 0.25       | -11.86     | -2.02      |
| 1552 | 6           | -10         | 15         | 1.22    | 2.04    | -11.24  | 0.24       | -11.94     | -2.03      |
| 1475 | 6           | 0           | 0          | 1.20    | 0.04    | -11.43  | -0.02      | -12.33     | 0.06       |
| 1479 | 6           | 0           | 5          | 1.22    | 0.09    | -11.42  | 0.02       | -12.30     | 0.05       |
| 1483 | 6           | 0           | 10         | 1.21    | 0.06    | -11.43  | -0.00      | -12.20     | 0.04       |
| 1487 | 6           | 0           | 15         | 1.22    | 0.09    | -11.42  | -0.00      | -12.44     | 0.04       |
| 1493 | 6           | 10          | 0          | 1.19    | -1.94   | -11.26  | -0.27      | -12.09     | 2.15       |
| 1497 | 6           | 10          | 5          | 1.20    | -1.91   | -11.27  | -0.25      | -12.03     | 2.15       |
| 1501 | 6           | 10          | 10         | 1.21    | -1.90   | -11.27  | -0.26      | -12.04     | 2.16       |
| 1505 | 6           | 10          | 15         | 1.22    | -1.91   | -11.26  | -0.26      | -11.96     | 2.13       |
| 1521 | 6           | 20          | 0          | 1.23    | -3.86   | -10.75  | -0.46      | -11.14     | 4.07       |
| 1526 | 6           | 20          | 5          | 1.20    | -3.86   | -10.76  | -0.48      | -11.24     | 4.08       |
| 1529 | 6           | 20          | 10         | 1.20    | -3.86   | -10.76  | -0.48      | -11.13     | 4.04       |
| 1533 | 6           | 20          | 15         | 1.21    | -3.87   | -10.75  | -0.49      | -11.13     | 4.04       |

\* Indicates model was close to heave stop

TABLE 6.201.1 - STABILITY DATA IN BODY AXES AT PIVOT

20 deg Deadrise, L/R = 0.000, Cv = 1.5

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|--------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 1709   | -2          | -10         | 0          | -1.84   | 2.07    | -11.24  | 0.23       | 3.49       | 0.83       |
| 1713   | -2          | -10         | 5          | -1.96   | 3.18    | -11.04  | 0.27       | 3.41       | 2.66       |
| 1716 * | -2          | -10         | 10         | -2.26   | 5.34    | -10.65  | -0.02      | 3.70       | 5.87       |
| 1718 * | -2          | -10         | 15         | -2.46   | 8.88    | -10.02  | -0.41      | 4.47       | 9.85       |
| 1645   | -2          | 0           | 0          | -1.87   | -0.02   | -11.43  | 0.05       | 3.94       | 0.05       |
| 1648   | -2          | 0           | 5          | -1.97   | 0.99    | -11.43  | -0.05      | 4.12       | 1.63       |
| 1653   | -2          | 0           | 10         | -2.41   | 3.19    | -11.41  | -0.28      | 4.59       | 4.39       |
| 1656 * | -2          | 0           | 15         | -2.96   | 7.36    | -11.39  | -0.51      | 6.06       | 9.04       |
| 1660   | -2          | 10          | 0          | -1.83   | -2.09   | -11.24  | -0.22      | 3.43       | -0.76      |
| 1664   | -2          | 10          | 5          | -1.87   | -1.24   | -11.39  | -0.34      | 4.04       | 0.56       |
| 1681   | -2          | 10          | 5          | -1.87   | -1.21   | -11.39  | -0.36      | 4.03       | 0.63       |
| 1683   | -2          | 10          | 10         | -2.21   | 0.45    | -11.68  | -0.44      | 5.23       | 2.67       |
| 1686 * | -2          | 10          | 15         | -2.82   | 4.12    | -12.30  | -0.59      | 7.25       | 6.62       |
| 1692   | -2          | 20          | 0          | -1.78   | -4.09   | -10.68  | -0.44      | 2.62       | -1.31      |
| 1696   | -2          | 20          | 5          | -1.80   | -3.23   | -10.99  | -0.43      | 3.53       | 0.02       |
| 1699   | -2          | 20          | 10         | -1.91   | -1.76   | -11.52  | -0.51      | 5.26       | 1.63       |
| 1703 * | -2          | 20          | 15         | -2.47   | 1.36    | -12.64  | -0.81      | 7.40       | 4.88       |
| 1627   | 0           | -10         | 0          | -1.21   | 2.08    | -11.30  | 0.40       | -0.18      | 0.19       |
| 1631   | 0           | -10         | 5          | -1.30   | 2.96    | -11.14  | 0.40       | -0.23      | 1.13       |
| 1635   | 0           | -10         | 10         | -1.60   | 4.71    | -10.84  | 0.21       | 0.17       | 2.80       |
| 1639 * | 0           | -10         | 15         | -2.08   | 8.47    | -10.17  | -0.14      | 1.31       | 5.96       |
| 1560   | 0           | 0           | 0          | -1.22   | 0.02    | -11.49  | 0.02       | -0.02      | 0.04       |
| 1564   | 0           | 0           | 5          | -1.32   | 0.77    | -11.49  | 0.05       | 0.02       | 0.92       |
| 1568   | 0           | 0           | 10         | -1.54   | 2.08    | -11.49  | -0.00      | 0.81       | 2.25       |
| 1572 * | 0           | 0           | 15         | -2.00   | 5.42    | -11.49  | -0.32      | 2.18       | 4.85       |
| 1577   | 0           | 10          | 0          | -1.21   | -2.08   | -11.30  | -0.42      | -0.30      | -0.13      |
| 1582   | 0           | 10          | 5          | -1.29   | -1.38   | -11.42  | -0.39      | 0.16       | 0.81       |
| 1586   | 0           | 10          | 10         | -1.50   | -0.15   | -11.64  | -0.35      | 1.18       | 1.91       |
| 1591   | 0           | 10          | 15         | -1.86   | 2.32    | -12.08  | -0.37      | 2.88       | 3.51       |
| 1607   | 0           | 20          | 0          | -1.18   | -4.14   | -10.72  | -0.50      | -0.63      | -0.17      |
| 1611   | 0           | 20          | 5          | -1.17   | -3.42   | -10.98  | -0.59      | -0.03      | 0.47       |
| 1615   | 0           | 20          | 10         | -1.31   | -2.22   | -11.42  | -0.60      | 1.07       | 1.24       |
| 1619   | 0           | 20          | 15         | -1.65   | -0.19   | -12.16  | -0.53      | 3.04       | 2.37       |
| 1397   | 3           | -10         | 0          | -0.69   | 2.18    | -11.34  | 0.48       | -5.33      | -0.92      |
| 1393   | 3           | -10         | 5          | -0.74   | 2.98    | -11.20  | 0.49       | -5.07      | -0.97      |
| 1390   | 3           | -10         | 10         | -0.93   | 4.40    | -10.96  | 0.38       | -4.32      | -1.00      |
| 1405   | 3           | 0           | 0          | -0.55   | 0.09    | -11.53  | 0.07       | -5.62      | 0.01       |
| 1409   | 3           | 0           | 5          | -0.71   | 0.83    | -11.54  | 0.11       | -5.46      | -0.05      |
| 1413   | 3           | 0           | 10         | -0.83   | 2.01    | -11.55  | 0.19       | -4.85      | -0.19      |
| 1417   | 3           | 0           | 15         | -1.12   | 4.60    | -11.56  | 0.18       | -3.44      | -0.48      |

\* Indicates model was close to heave stop

TABLE 6.201.2 - STABILITY DATA IN BODY AXES AT PIVOT

20 deg Deadrise, L/R = 0.000, Cv = 1.5

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 1436 | 3           | 10          | 0          | -0.67   | -2.08   | -11.35  | -0.45      | -5.35      | 0.95       |
| 1440 | 3           | 10          | 5          | -0.67   | -1.28   | -11.49  | -0.40      | -5.18      | 0.77       |
| 1445 | 3           | 10          | 10         | -0.75   | -0.10   | -11.70  | -0.20      | -4.41      | 0.35       |
| 1449 | 3           | 10          | 15         | -0.91   | 1.54    | -12.00  | -0.03      | -3.05      | -0.08      |
| 1457 | 3           | 20          | 0          | -0.64   | -3.91   | -10.86  | -0.55      | -4.97      | 1.88       |
| 1461 | 3           | 20          | 5          | -0.72   | -3.11   | -11.15  | -0.63      | -4.81      | 1.51       |
| 1465 | 3           | 20          | 10         | -0.78   | -1.84   | -11.62  | -0.61      | -4.25      | 0.66       |
| 1469 | 3           | 20          | 15         | -0.86   | -0.54   | -12.09  | -0.42      | -2.96      | -0.21      |
| 1541 | 6           | -10         | 0          | -0.37   | 1.90    | -11.44  | 0.36       | -8.83      | -1.44      |
| 1545 | 6           | -10         | 5          | -0.44   | 2.98    | -11.25  | 0.42       | -8.57      | -2.36      |
| 1549 | 6           | -10         | 10         | -0.53   | 4.36    | -11.02  | 0.44       | -7.89      | -3.34      |
| 1553 | 6           | -10         | 15         | -0.70   | 6.87    | -10.60  | 0.35       | -6.76      | -5.07      |
| 1476 | 6           | 0           | 0          | -0.29   | 0.04    | -11.58  | 0.00       | -9.08      | 0.04       |
| 1480 | 6           | 0           | 5          | -0.38   | 1.13    | -11.59  | 0.16       | -9.00      | -0.86      |
| 1484 | 6           | 0           | 10         | -0.48   | 2.25    | -11.60  | 0.24       | -8.59      | -1.79      |
| 1488 | 6           | 0           | 15         | -0.57   | 3.97    | -11.61  | 0.30       | -7.89      | -3.12      |
| 1494 | 6           | 10          | 0          | -0.40   | -1.71   | -11.47  | -0.31      | -8.95      | 1.49       |
| 1498 | 6           | 10          | 5          | -0.39   | -0.61   | -11.67  | -0.20      | -8.89      | 0.47       |
| 1502 | 6           | 10          | 10         | -0.42   | 0.53    | -11.87  | -0.08      | -8.45      | -0.71      |
| 1506 | 6           | 10          | 15         | -0.49   | 1.70    | -12.08  | 0.05       | -8.01      | -1.74      |
| 1522 | 6           | 20          | 0          | -0.48   | -3.67   | -11.01  | -0.53      | -8.22      | 3.03       |
| 1525 | 6           | 20          | 5          | -0.55   | -2.45   | -11.46  | -0.49      | -8.52      | 1.93       |
| 1530 | 6           | 20          | 10         | -0.50   | -1.10   | -11.95  | -0.40      | -8.44      | 0.52       |
| 1534 | 6           | 20          | 15         | -0.41   | -0.16   | -12.28  | -0.24      | -8.05      | -0.57      |

\* Indicates model was close to heave stop

TABLE 6.203.1 - STABILITY DATA IN BODY AXES AT PIVOT

20 deg Deadrise, L/R = 0.000, Cv = 3

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|--------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 1710   | -2          | -10         | 0          | -6.66   | 3.63    | -10.80  | 0.60       | 0.95       | 1.77       |
| 1714 * | -2          | -10         | 5          | -6.97   | 10.21   | -9.63   | 0.48       | 0.64       | 11.41      |
| 1646   | -2          | 0           | 0          | -6.36   | 0.22    | -11.28  | 0.12       | 0.33       | 0.14       |
| 1650 * | -2          | 0           | 5          | -6.80   | 5.83    | -11.26  | -0.29      | 1.23       | 7.97       |
| 1654 * | -2          | 0           | 10         | -7.75   | 18.44   | -11.23  | -0.95      | 4.81       | 19.30      |
| 1721 * | -2          | 0           | 10         | -7.88   | 21.16   | -11.22  | -0.85      | 4.66       | 21.92      |
| 1661   | -2          | 10          | 0          | -6.26   | -3.21   | -10.89  | -0.25      | 1.05       | -1.44      |
| 1665   | -2          | 10          | 5          | -6.68   | 1.68    | -11.73  | -0.78      | 3.59       | 5.22       |
| 1690   | -2          | 10          | 5          | -6.64   | 1.78    | -11.75  | -0.52      | 3.63       | 5.59       |
| 1684 * | -2          | 10          | 10         | -7.43   | 11.90   | -13.51  | -0.96      | 7.20       | 13.78      |
| 1688 * | -2          | 10          | 15         | -8.77   | 24.49   | -15.68  | -0.03      | 9.74       | 20.92      |
| 1693   | -2          | 20          | 0          | -4.98   | -4.04   | -10.58  | -0.21      | 2.12       | -0.80      |
| 1697   | -2          | 20          | 5          | -5.00   | 0.24    | -12.14  | -0.34      | 5.55       | 5.27       |
| 1701 * | -2          | 20          | 10         | -8.21   | 7.13    | -14.53  | -0.66      | 12.32      | 7.79       |
| 1628   | 0           | -10         | 0          | -3.63   | 2.32    | -11.26  | 0.31       | 2.82       | 1.31       |
| 1632   | 0           | -10         | 5          | -4.45   | 6.58    | -10.51  | 0.16       | 2.23       | 2.93       |
| 1636 * | 0           | -10         | 10         | -7.06   | 21.03   | -7.96   | -0.84      | 4.41       | 11.24      |
| 1640 * | 0           | -10         | 15         | -7.31   | 34.71   | -5.55   | -1.50      | 4.15       | 20.06      |
| 1561   | 0           | 0           | 0          | -3.75   | 0.12    | -11.49  | 0.05       | 5.05       | -0.04      |
| 1565   | 0           | 0           | 5          | -4.23   | 3.41    | -11.49  | 0.25       | 5.38       | 2.62       |
| 1569 * | 0           | 0           | 10         | -6.57   | 14.44   | -11.49  | -0.40      | 7.45       | 5.63       |
| 1573 * | 0           | 0           | 15         | -8.57   | 38.91   | -11.49  | -0.97      | 5.48       | 24.90      |
| 1579   | 0           | 10          | 0          | -3.56   | -2.19   | -11.28  | -0.24      | 2.75       | -1.22      |
| 1583   | 0           | 10          | 5          | -3.85   | 0.85    | -11.82  | 0.08       | 6.53       | 0.91       |
| 1588   | 0           | 10          | 10         | -5.14   | 6.53    | -12.82  | 0.31       | 10.87      | 3.85       |
| 1592 * | 0           | 10          | 15         | -10.18  | 33.26   | -17.53  | 0.25       | 12.81      | 16.70      |
| 1608   | 0           | 20          | 0          | -3.47   | -4.31   | -10.66  | -0.36      | 0.61       | -1.51      |
| 1612   | 0           | 20          | 5          | -3.47   | -1.53   | -11.67  | -0.29      | 5.20       | -1.41      |
| 1616   | 0           | 20          | 10         | -3.45   | 0.90    | -12.55  | 0.00       | 7.91       | -0.66      |
| 1620   | 0           | 20          | 15         | -2.99   | 3.11    | -13.36  | -0.04      | 5.96       | -1.13      |
| 1398   | 3           | -10         | 0          | -1.82   | 1.81    | -11.46  | 0.52       | -3.39      | -0.06      |
| 1394   | 3           | -10         | 5          | -2.28   | 4.50    | -11.01  | 0.70       | -2.74      | -1.45      |
| 1391   | 3           | -10         | 10         | -3.16   | 10.49   | -10.00  | 0.66       | 0.55       | -3.35      |
| 1400   | 3           | -10         | 13         | -4.28   | 19.14   | -8.54   | 0.37       | 4.65       | -3.33      |
| 1388   | 3           | -10         | 15         | -5.35   | 29.24   | -6.81   | 0.04       | 6.77       | -0.71      |
| 1406   | 3           | 0           | 0          | -1.60   | 0.14    | -11.59  | 0.04       | -3.94      | 0.04       |
| 1410   | 3           | 0           | 5          | -1.87   | 2.10    | -11.60  | 0.37       | -3.62      | -0.59      |
| 1414   | 3           | 0           | 10         | -2.39   | 5.46    | -11.63  | 0.82       | -1.97      | -1.98      |
| 1418   | 3           | 0           | 15         | -3.65   | 14.89   | -11.70  | 1.07       | 3.32       | -4.01      |

\* Indicates model was close to heave stop

TABLE 6.203.2 - STABILITY DATA IN BODY AXES AT PIVOT

20 deg Deadrise, L/R = 0.000, Cv = 3

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 1437 | 3           | 10          | 0          | -1.79   | -1.49   | -11.52  | -0.50      | -3.57      | -0.08      |
| 1442 | 3           | 10          | 5          | -1.58   | 0.15    | -11.79  | -0.11      | -4.55      | -0.52      |
| 1446 | 3           | 10          | 10         | -1.59   | 2.01    | -12.12  | 0.28       | -5.40      | -1.36      |
| 1450 | 3           | 10          | 15         | -1.60   | 4.43    | -12.55  | 0.78       | -5.89      | -2.79      |
| 1458 | 3           | 20          | 0          | -1.99   | -3.55   | -11.06  | -0.78      | -3.00      | 1.04       |
| 1462 | 3           | 20          | 5          | -1.67   | -1.38   | -11.83  | -0.55      | -3.88      | -0.58      |
| 1466 | 3           | 20          | 10         | -1.34   | -0.11   | -12.28  | -0.37      | -7.00      | -1.20      |
| 1470 | 3           | 20          | 15         | -1.10   | 0.97    | -12.66  | -0.25      | -9.98      | -1.98      |
| 1542 | 6           | -10         | 0          | -0.82   | 1.30    | -11.59  | 0.40       | -10.21     | -0.59      |
| 1546 | 6           | -10         | 5          | -1.14   | 3.20    | -11.29  | 0.69       | -8.35      | -2.57      |
| 1550 | 6           | -10         | 10         | -1.51   | 7.10    | -10.64  | 0.96       | -6.27      | -6.36      |
| 1554 | 6           | -10         | 15         | -2.06   | 14.60   | -9.38   | 1.04       | -2.20      | -12.36     |
| 1477 | 6           | 0           | 0          | -0.71   | 0.08    | -11.63  | 0.05       | -11.31     | 0.09       |
| 1481 | 6           | 0           | 5          | -0.87   | 1.35    | -11.64  | 0.36       | -11.04     | -1.18      |
| 1485 | 6           | 0           | 10         | -0.98   | 2.99    | -11.66  | 0.71       | -10.45     | -2.87      |
| 1489 | 6           | 0           | 15         | -1.25   | 5.86    | -11.68  | 1.08       | -9.11      | -5.87      |
| 1495 | 6           | 10          | 0          | -0.82   | -1.09   | -11.63  | -0.35      | -10.51     | 0.73       |
| 1499 | 6           | 10          | 5          | -0.69   | 0.05    | -11.81  | -0.09      | -12.19     | -0.38      |
| 1503 | 6           | 10          | 10         | -0.66   | 1.13    | -12.00  | 0.17       | -13.72     | -1.71      |
| 1507 | 6           | 10          | 15         | -0.67   | 2.31    | -12.21  | 0.40       | -14.91     | -3.18      |
| 1523 | 6           | 20          | 0          | -1.30   | -2.46   | -11.55  | -0.70      | -8.66      | 1.58       |
| 1527 | 6           | 20          | 5          | -0.99   | -1.40   | -11.89  | -0.40      | -11.32     | 0.69       |
| 1531 | 6           | 20          | 10         | -0.68   | -0.80   | -12.08  | -0.37      | -13.40     | 0.21       |
| 1535 | 6           | 20          | 15         | -0.46   | -0.24   | -12.26  | -0.35      | -15.00     | -0.30      |

\* Indicates model was close to heave stop



TABLE 6.204.1 - STABILITY DATA IN BODY AXES AT PIVOT

20 deg Deadrise, L/R = 0.000, Cv = 4

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|--------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 1711 * | -2          | -10         | 0          | -11.61  | 5.93    | -10.22  | 0.88       | -0.27      | 4.38       |
| 1647 * | -2          | 0           | 0          | -11.90  | 0.55    | -11.08  | 0.01       | -1.21      | 0.29       |
| 1651 * | -2          | 0           | 5          | -12.23  | 12.52   | -11.07  | -0.54      | 0.93       | 19.66      |
| 1662 * | -2          | 10          | 0          | -11.93  | -5.04   | -10.36  | -0.61      | 0.15       | -5.52      |
| 1666 * | -2          | 10          | 5          | -11.81  | 6.99    | -12.49  | -0.92      | 6.02       | 11.79      |
| 1694 * | -2          | 20          | 0          | -12.94  | -9.10   | -8.44   | -0.53      | 2.75       | -12.29     |
| 1698 * | -2          | 20          | 5          | -12.85  | -0.02   | -11.75  | -0.35      | 11.03      | 1.20       |
| 1629   | 0           | -10         | 0          | -6.09   | 2.53    | -11.22  | 0.00       | 9.66       | 3.46       |
| 1633   | 0           | -10         | 5          | -9.25   | 10.40   | -9.83   | -0.29      | 7.89       | 6.25       |
| 1637 * | 0           | -10         | 10         | -11.38  | 33.55   | -5.75   | -1.49      | 6.66       | 23.48      |
| 1562   | 0           | 0           | 0          | -5.64   | 0.18    | -11.49  | 0.02       | 11.04      | 0.07       |
| 1566   | 0           | 0           | 5          | -7.18   | 5.68    | -11.49  | 0.24       | 12.35      | 4.97       |
| 1570 * | 0           | 0           | 10         | -13.38  | 38.77   | -11.49  | -0.93      | 6.93       | 33.26      |
| 1574 * | 0           | 0           | 15         | -14.67  | 58.20   | -11.49  | -5.56      | 10.51      | 38.01      |
| 1580   | 0           | 10          | 0          | -6.03   | -2.05   | -11.31  | 0.10       | 9.34       | -3.29      |
| 1584   | 0           | 10          | 5          | -5.70   | 1.47    | -11.93  | 0.23       | 12.16      | 0.30       |
| 1589   | 0           | 10          | 10         | -5.86   | 6.79    | -12.87  | 0.80       | 12.93      | 2.96       |
| 1593 * | 0           | 10          | 15         | -14.46  | 38.16   | -18.40  | 1.23       | 25.34      | 12.90      |
| 1609   | 0           | 20          | 0          | -6.49   | -4.25   | -10.68  | -0.09      | 5.27       | -4.15      |
| 1613   | 0           | 20          | 5          | -5.36   | -1.59   | -11.65  | -0.07      | 11.18      | -3.14      |
| 1617   | 0           | 20          | 10         | -4.29   | 0.91    | -12.56  | -0.37      | 7.32       | -2.49      |
| 1621   | 0           | 20          | 15         | -3.61   | 2.86    | -13.27  | -0.90      | 3.14       | -2.95      |
| 1399   | 3           | -10         | 0          | -2.37   | 1.75    | -11.50  | 0.45       | -3.70      | 0.05       |
| 1395   | 3           | -10         | 5          | -3.39   | 5.44    | -10.90  | 0.94       | -0.71      | -1.95      |
| 1385   | 3           | -10         | 10         | -5.24   | 15.58   | -9.21   | 1.01       | 5.43       | -4.95      |
| 1386   | 3           | -10         | 13         | -7.59   | 34.58   | -5.99   | 0.63       | 14.45      | -4.45      |
| 1384 * | 3           | -10         | 15         | -9.31   | 52.10   | -2.99   | -0.40      | 16.03      | 2.38       |
| 1407   | 3           | 0           | 0          | -2.39   | 0.22    | -11.63  | 0.02       | -5.60      | -0.01      |
| 1411   | 3           | 0           | 5          | -2.56   | 2.51    | -11.64  | 0.51       | -4.64      | -1.07      |
| 1415   | 3           | 0           | 10         | -3.20   | 6.66    | -11.67  | 1.22       | -1.96      | -3.19      |
| 1419   | 3           | 0           | 15         | -5.80   | 22.72   | -11.81  | 2.06       | 8.42       | -7.07      |

\* Indicates model was close to heave stop

TABLE 6.204.1 - STABILITY DATA IN BODY AXES AT PIVOT

20 deg Deadrise, L/R = 0.000, Cv = 4

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 1438 | 3           | 10          | 0          | -2.48   | -1.46   | -11.56  | -0.47      | -4.35      | 0.02       |
| 1443 | 3           | 10          | 5          | -2.12   | 0.58    | -11.90  | -0.04      | -7.85      | -1.02      |
| 1447 | 3           | 10          | 10         | -1.95   | 2.75    | -12.27  | 0.36       | -10.48     | -2.93      |
| 1451 | 3           | 10          | 15         | -1.80   | 5.15    | -12.69  | 0.75       | -12.27     | -5.40      |
| 1459 | 3           | 20          | 0          | -2.76   | -3.00   | -11.31  | -0.92      | -1.36      | -0.05      |
| 1463 | 3           | 20          | 5          | -2.20   | -1.30   | -11.90  | -0.59      | -6.69      | -0.20      |
| 1467 | 3           | 20          | 10         | -1.66   | -0.47   | -12.16  | -0.54      | -10.57     | -0.59      |
| 1471 | 3           | 20          | 15         | -1.24   | 0.39    | -12.45  | -0.59      | -13.23     | -1.26      |
| 1543 | 6           | -10         | 0          | -0.87   | 1.89    | -11.49  | 0.52       | -13.68     | -1.79      |
| 1547 | 6           | -10         | 5          | -1.16   | 3.17    | -11.30  | 0.84       | -11.27     | -3.05      |
| 1551 | 6           | -10         | 10         | -1.79   | 6.89    | -10.71  | 1.29       | -8.42      | -7.50      |
| 1555 | 6           | -10         | 15         | -2.48   | 15.39   | -9.28   | 1.54       | -2.63      | -16.07     |
| 1478 | 6           | 0           | 0          | -0.73   | 0.17    | -11.63  | 0.02       | -15.61     | 0.10       |
| 1482 | 6           | 0           | 5          | -0.82   | 1.72    | -11.64  | 0.41       | -15.47     | -2.17      |
| 1486 | 6           | 0           | 10         | -0.92   | 3.31    | -11.65  | 0.79       | -15.33     | -4.34      |
| 1490 | 6           | 0           | 15         | -1.04   | 5.03    | -11.66  | 1.25       | -14.88     | -6.62      |
| 1496 | 6           | 10          | 0          | -0.78   | -1.59   | -11.53  | -0.60      | -13.99     | 1.90       |
| 1500 | 6           | 10          | 5          | -0.73   | -0.39   | -11.74  | -0.38      | -15.24     | 0.38       |
| 1504 | 6           | 10          | 10         | -0.75   | 0.81    | -11.95  | -0.18      | -16.21     | -1.28      |
| 1508 | 6           | 10          | 15         | -0.80   | 2.18    | -12.20  | -0.01      | -17.19     | -3.15      |
| 1524 | 6           | 20          | 0          | -1.50   | -2.59   | -11.52  | -0.86      | -11.35     | 2.29       |
| 1528 | 6           | 20          | 5          | -0.91   | -2.30   | -11.56  | -0.75      | -14.03     | 2.56       |
| 1532 | 6           | 20          | 10         | -0.61   | -1.78   | -11.72  | -0.71      | -15.58     | 2.14       |
| 1536 | 6           | 20          | 15         | -0.51   | -1.34   | -11.86  | -0.68      | -16.68     | 1.77       |

\* Indicates model was close to heave stop

TABLE 6.210.1 - STABILITY DATA IN BODY AXES AT PIVOT

20 deg Deadrise, L/R = 0.117, Cv = 0

| RUN | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|-----|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 585 | 0           | -10         | -10        | -0.04   | 2.08    | -11.30  | 0.39       | -3.57      | -0.65      |
| 568 | 0           | -10         | -8         | -0.03   | 2.07    | -11.30  | 0.39       | -3.58      | -0.63      |
| 582 | 0           | -10         | -5         | -0.04   | 2.06    | -11.30  | 0.39       | -3.63      | -0.64      |
| 569 | 0           | -10         | 0          | -0.03   | 2.10    | -11.30  | 0.41       | -3.63      | -0.64      |
| 574 | 0           | -10         | 5          | -0.01   | 2.05    | -11.31  | 0.34       | -3.70      | -0.65      |
| 577 | 0           | -10         | 10         | -0.03   | 2.02    | -11.31  | 0.31       | -3.77      | -0.64      |
| 468 | 0           | 0           | -15        | -0.07   | 0.09    | -11.49  | -0.00      | -3.89      | -0.01      |
| 464 | 0           | 0           | -10        | -0.04   | 0.13    | -11.49  | 0.02       | -3.68      | -0.01      |
| 459 | 0           | 0           | -5         | -0.04   | 0.14    | -11.49  | 0.02       | -3.66      | -0.01      |
| 439 | 0           | 0           | 0          | -0.01   | 0.09    | -11.49  | 0.04       | -3.65      | 0.01       |
| 446 | 0           | 0           | 5          | -0.02   | 0.05    | -11.49  | -0.03      | -3.83      | 0.02       |
| 450 | 0           | 0           | 10         | -0.02   | 0.05    | -11.49  | -0.04      | -3.85      | 0.01       |
| 454 | 0           | 0           | 15         | -0.04   | 0.05    | -11.49  | -0.06      | -4.02      | 0.03       |
| 534 | 0           | 10          | -10        | -0.04   | -2.00   | -11.32  | -0.55      | -3.57      | 0.64       |
| 530 | 0           | 10          | -5         | -0.02   | -1.93   | -11.33  | -0.51      | -3.65      | 0.62       |
| 471 | 0           | 10          | 0          | -0.05   | -1.89   | -11.33  | -0.45      | -3.73      | 0.66       |
| 517 | 0           | 10          | 0          | -0.03   | -1.95   | -11.32  | -0.52      | -3.63      | 0.66       |
| 475 | 0           | 10          | 5          | -0.02   | -1.90   | -11.33  | -0.47      | -3.84      | 0.69       |
| 522 | 0           | 10          | 5          | -0.01   | -1.93   | -11.33  | -0.49      | -3.77      | 0.69       |
| 525 | 0           | 10          | 10         | -0.02   | -1.94   | -11.33  | -0.49      | -3.75      | 0.66       |
| 560 | 0           | 20          | -10        | -0.05   | -3.95   | -10.79  | -0.73      | -3.61      | 1.32       |
| 553 | 0           | 20          | -5         | -0.03   | -3.90   | -10.81  | -0.66      | -3.66      | 1.34       |
| 555 | 0           | 20          | -5         | -0.04   | -3.94   | -10.79  | -0.71      | -3.67      | 1.35       |
| 538 | 0           | 20          | 0          | -0.02   | -3.91   | -10.80  | -0.70      | -3.72      | 1.36       |
| 543 | 0           | 20          | 5          | -0.01   | -3.87   | -10.82  | -0.67      | -3.77      | 1.37       |
| 548 | 0           | 20          | 10         | -0.02   | -3.86   | -10.82  | -0.64      | -3.81      | 1.40       |
| 250 | 3           | -10         | -15        | 0.59    | 1.95    | -11.31  | 0.27       | -8.49      | -1.52      |
| 245 | 3           | -10         | -10        | 0.60    | 2.01    | -11.30  | 0.32       | -8.68      | -1.54      |
| 241 | 3           | -10         | -5         | 0.61    | 1.96    | -11.30  | 0.29       | -8.68      | -1.59      |
| 237 | 3           | -10         | 0          | 0.62    | 2.01    | -11.30  | 0.30       | -8.78      | -1.57      |
| 233 | 3           | -10         | 5          | 0.60    | 2.01    | -11.30  | 0.30       | -8.75      | -1.56      |
| 229 | 3           | -10         | 10         | 0.55    | 1.89    | -11.32  | 0.08       | -8.71      | -1.51      |
| 225 | 3           | -10         | 15         | 0.59    | 1.82    | -11.33  | 0.13       | -8.67      | -1.55      |
| 109 | 3           | 0           | -15        | 0.61    | 0.02    | -11.47  | -0.06      | -9.04      | -0.04      |
| 104 | 3           | 0           | -10        | 0.61    | 0.06    | -11.47  | -0.04      | -9.09      | -0.04      |
| 100 | 3           | 0           | -5         | 0.60    | 0.07    | -11.47  | -0.05      | -9.10      | -0.03      |
| 96  | 3           | 0           | 0          | 0.59    | -0.03   | -11.47  | -0.13      | -9.09      | -0.06      |
| 90  | 3           | 0           | 5          | 0.62    | 0.05    | -11.47  | -0.06      | -9.21      | -0.03      |
| 79  | 3           | 0           | 10         | 0.59    | -0.09   | -11.47  | -0.15      | -9.23      | -0.08      |
| 81  | 3           | 0           | 10         | 0.58    | -0.23   | -11.48  | -0.24      | -9.20      | -0.13      |
| 87  | 3           | 0           | 10         | 0.62    | 0.02    | -11.47  | -0.10      | -9.24      | -0.03      |
| 83  | 3           | 0           | 15         | 0.57    | 0.03    | -11.48  | -0.09      | -9.30      | -0.05      |

\* Indicates model was close to heave stop

TABLE 6.210.2 - STABILITY DATA IN BODY AXES AT PIVOT

20 deg Deadrise, L/R = 0.117, Cv = 0

| RUN | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|-----|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 113 | 3           | 10          | -15        | 0.56    | -1.97   | -11.31  | -0.47      | -8.80      | 1.47       |
| 154 | 3           | 10          | -15        | 0.53    | -2.06   | -11.29  | -0.44      | -8.45      | 1.45       |
| 159 | 3           | 10          | -10        | 0.58    | -2.02   | -11.30  | -0.48      | -8.86      | 1.50       |
| 163 | 3           | 10          | -5         | 0.59    | -2.02   | -11.30  | -0.49      | -8.91      | 1.49       |
| 167 | 3           | 10          | 0          | 0.59    | -2.11   | -11.28  | -0.55      | -8.78      | 1.46       |
| 171 | 3           | 10          | 5          | 0.61    | -1.93   | -11.31  | -0.44      | -8.91      | 1.52       |
| 185 | 3           | 10          | 5          | 0.60    | -2.00   | -11.30  | -0.49      | -8.75      | 1.51       |
| 187 | 3           | 10          | 10         | 0.62    | -2.03   | -11.29  | -0.49      | -8.90      | 1.51       |
| 191 | 3           | 10          | 15         | 0.64    | -1.79   | -11.33  | -0.33      | -9.01      | 1.64       |
| 219 | 3           | 20          | -15        | 0.64    | -3.90   | -10.79  | -0.47      | -8.32      | 2.97       |
| 215 | 3           | 20          | -10        | 0.60    | -3.88   | -10.80  | -0.50      | -8.41      | 3.00       |
| 211 | 3           | 20          | -5         | 0.59    | -3.92   | -10.79  | -0.53      | -8.37      | 2.99       |
| 203 | 3           | 20          | 5          | 0.59    | -3.92   | -10.79  | -0.55      | -8.31      | 2.96       |
| 207 | 3           | 20          | 5          | 0.61    | -3.89   | -10.80  | -0.53      | -8.47      | 3.02       |
| 199 | 3           | 20          | 10         | 0.63    | -3.91   | -10.79  | -0.54      | -8.51      | 3.07       |
| 195 | 3           | 20          | 15         | 0.62    | -3.89   | -10.79  | -0.52      | -8.50      | 3.03       |
| 419 | 6           | -10         | -15        | 1.23    | 2.02    | -11.24  | 0.26       | -11.59     | -2.08      |
| 415 | 6           | -10         | -10        | 1.24    | 2.03    | -11.24  | 0.25       | -11.43     | -2.05      |
| 411 | 6           | -10         | -5         | 1.22    | 1.95    | -11.26  | 0.21       | -11.55     | -2.09      |
| 393 | 6           | -10         | 0          | 1.23    | 1.99    | -11.25  | 0.23       | -11.41     | -2.04      |
| 397 | 6           | -10         | 5          | 1.24    | 2.01    | -11.24  | 0.24       | -11.63     | -2.07      |
| 401 | 6           | -10         | 10         | 1.25    | 1.99    | -11.25  | 0.21       | -11.57     | -2.06      |
| 405 | 6           | -10         | 15         | 1.24    | 1.97    | -11.25  | 0.19       | -11.58     | -2.06      |
| 295 | 6           | 0           | -15        | 1.23    | 0.02    | -11.42  | -0.06      | -12.17     | -0.09      |
| 291 | 6           | 0           | -10        | 1.22    | 0.08    | -11.42  | -0.01      | -12.14     | -0.10      |
| 287 | 6           | 0           | -5         | 1.23    | 0.04    | -11.42  | -0.05      | -12.16     | -0.05      |
| 267 | 6           | 0           | 0          | 1.24    | 0.04    | -11.42  | -0.05      | -12.17     | -0.06      |
| 273 | 6           | 0           | 5          | 1.22    | -0.02   | -11.42  | -0.09      | -12.15     | -0.06      |
| 277 | 6           | 0           | 5          | 1.26    | 0.05    | -11.42  | -0.06      | -12.10     | -0.04      |
| 282 | 6           | 0           | 10         | 1.25    | 0.06    | -11.42  | -0.06      | -12.34     | -0.05      |
| 283 | 6           | 0           | 15         | 1.23    | 0.01    | -11.42  | -0.07      | -12.08     | -0.06      |
| 299 | 6           | 10          | -15        | 1.22    | -1.98   | -11.25  | -0.33      | -11.80     | 1.96       |
| 304 | 6           | 10          | -10        | 1.24    | -1.94   | -11.26  | -0.31      | -11.86     | 1.97       |
| 308 | 6           | 10          | -5         | 1.25    | -1.91   | -11.26  | -0.29      | -11.96     | 2.02       |
| 321 | 6           | 10          | -5         | 1.25    | -1.91   | -11.26  | -0.28      | -11.83     | 1.98       |
| 324 | 6           | 10          | 0          | 1.25    | -1.89   | -11.26  | -0.25      | -11.98     | 2.03       |
| 328 | 6           | 10          | 5          | 1.25    | -1.94   | -11.26  | -0.31      | -11.94     | 2.01       |
| 332 | 6           | 10          | 10         | 1.26    | -1.91   | -11.26  | -0.30      | -12.07     | 2.04       |
| 336 | 6           | 10          | 15         | 1.25    | -2.01   | -11.24  | -0.38      | -11.96     | 2.02       |
| 364 | 6           | 20          | -15        | 1.22    | -3.95   | -10.72  | -0.58      | -11.10     | 3.88       |
| 360 | 6           | 20          | -10        | 1.22    | -3.88   | -10.75  | -0.53      | -11.09     | 3.91       |
| 356 | 6           | 20          | -5         | 1.22    | -3.91   | -10.74  | -0.58      | -11.13     | 3.92       |
| 340 | 6           | 20          | 0          | 1.21    | -3.93   | -10.73  | -0.61      | -11.09     | 3.91       |
| 344 | 6           | 20          | 5          | 1.25    | -3.90   | -10.74  | -0.57      | -11.12     | 3.95       |
| 348 | 6           | 20          | 10         | 1.26    | -3.87   | -10.75  | -0.54      | -11.20     | 3.97       |
| 352 | 6           | 20          | 15         | 1.23    | -3.96   | -10.71  | -0.62      | -11.18     | 3.95       |

\* Indicates model was close to heave stop

TABLE 6.211.1 - STABILITY DATA IN BODY AXES AT PIVOT

20 deg Deadrise, L/R = 0.117, Cv = 1.5

| RUN   | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|-------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 586   | 0           | -10         | -10        | -1.62   | 0.46    | -11.59  | 0.84       | 1.33       | -2.67      |
| 581   | 0           | -10         | -5         | -1.36   | 1.64    | -11.38  | 0.68       | 0.49       | -1.28      |
| 570   | 0           | -10         | 0          | -1.21   | 2.43    | -11.24  | 0.61       | 0.23       | -0.20      |
| 573   | 0           | -10         | 5          | -1.36   | 3.13    | -11.12  | 0.37       | 0.30       | 0.78       |
| 578   | 0           | -10         | 10         | -1.64   | 4.72    | -10.83  | -0.05      | 1.00       | 1.96       |
| 469 * | 0           | 0           | -15        | -2.04   | -5.16   | -11.49  | 0.60       | 2.12       | -5.69      |
| 465   | 0           | 0           | -10        | -1.59   | -1.80   | -11.49  | 0.56       | 0.81       | -3.03      |
| 460   | 0           | 0           | -5         | -1.34   | -0.45   | -11.49  | 0.26       | 0.05       | -1.50      |
| 443   | 0           | 0           | 0          | -1.26   | 0.01    | -11.49  | 0.01       | 0.19       | -0.43      |
| 447   | 0           | 0           | 5          | -1.25   | 0.71    | -11.49  | -0.01      | 0.29       | 0.42       |
| 451   | 0           | 0           | 10         | -1.47   | 1.92    | -11.49  | -0.14      | 1.14       | 1.43       |
| 455 * | 0           | 0           | 15         | -1.94   | 4.85    | -11.49  | -0.31      | 2.54       | 2.96       |
| 535   | 0           | 10          | -10        | -1.64   | -4.35   | -10.90  | 0.12       | -0.16      | -3.52      |
| 531   | 0           | 10          | -5         | -1.34   | -2.76   | -11.18  | -0.22      | -0.28      | -1.79      |
| 472   | 0           | 10          | 0          | -1.23   | -1.88   | -11.34  | -0.30      | -0.27      | -0.64      |
| 518   | 0           | 10          | 0          | -1.19   | -2.04   | -11.31  | -0.45      | -0.16      | -0.65      |
| 476   | 0           | 10          | 5          | -1.28   | -1.20   | -11.46  | -0.34      | 0.23       | 0.35       |
| 523   | 0           | 10          | 5          | -1.17   | -1.34   | -11.43  | -0.36      | 0.18       | 0.23       |
| 526   | 0           | 10          | 10         | -1.38   | -0.35   | -11.61  | -0.44      | 1.06       | 1.00       |
| 561   | 0           | 20          | -10        | -1.81   | -6.31   | -9.93   | 0.12       | -0.94      | -3.39      |
| 556   | 0           | 20          | -5         | -1.37   | -4.63   | -10.54  | -0.26      | -0.86      | -1.54      |
| 539   | 0           | 20          | 0          | -1.25   | -3.83   | -10.83  | -0.53      | -0.44      | -0.71      |
| 544   | 0           | 20          | 5          | -1.16   | -3.15   | -11.08  | -0.54      | 0.01       | -0.08      |
| 549   | 0           | 20          | 10         | -1.34   | -2.07   | -11.47  | -0.61      | 1.27       | 0.59       |
| 251   | 3           | -10         | -15        | -0.81   | -1.10   | -11.92  | 0.12       | -2.64      | -0.84      |
| 246   | 3           | -10         | -10        | -0.73   | 0.51    | -11.63  | 0.32       | -4.11      | -1.01      |
| 242   | 3           | -10         | -5         | -0.62   | 1.73    | -11.41  | 0.49       | -4.79      | -1.18      |
| 238   | 3           | -10         | 0          | -0.56   | 2.70    | -11.24  | 0.57       | -4.97      | -1.21      |
| 234   | 3           | -10         | 5          | -0.69   | 3.56    | -11.09  | 0.54       | -4.52      | -1.20      |
| 230   | 3           | -10         | 10         | -0.93   | 4.81    | -10.88  | 0.14       | -3.59      | -1.38      |
| 226   | 3           | -10         | 15         | -1.23   | 7.96    | -10.35  | -0.30      | -1.71      | -1.93      |
| 108   | 3           | 0           | -15        | -1.02   | -3.93   | -11.56  | -0.24      | -3.55      | -0.71      |
| 110   | 3           | 0           | -15        | -0.99   | -3.77   | -11.56  | -0.16      | -3.62      | -0.70      |
| 105   | 3           | 0           | -10        | -0.79   | -1.56   | -11.55  | -0.21      | -4.86      | -0.54      |
| 101   | 3           | 0           | -5         | -0.66   | -0.47   | -11.54  | -0.16      | -5.24      | -0.44      |
| 97    | 3           | 0           | 0          | -0.60   | 0.26    | -11.54  | -0.06      | -5.29      | -0.38      |
| 91    | 3           | 0           | 5          | -0.61   | 1.12    | -11.54  | 0.06       | -5.13      | -0.45      |
| 92    | 3           | 0           | 5          | -0.64   | 1.10    | -11.54  | 0.02       | -5.07      | -0.45      |
| 88    | 3           | 0           | 10         | -0.78   | 2.33    | -11.55  | 0.05       | -4.38      | -0.69      |
| 86    | 3           | 0           | 15         | -1.04   | 4.84    | -11.56  | -0.05      | -2.95      | -1.27      |

\* Indicates model was close to heave stop

TABLE 6.211.2 - STABILITY DATA IN BODY AXES AT PIVOT

20 deg Deadrise, L/R = 0.117, Cv = 1.5

| RUN | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|-----|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 114 | 3           | 10          | -15        | -1.19   | -6.43   | -10.61  | -0.36      | -3.58      | -0.26      |
| 160 | 3           | 10          | -10        | -0.93   | -3.70   | -11.08  | -0.46      | -4.68      | 0.36       |
| 164 | 3           | 10          | -5         | -0.77   | -2.54   | -11.28  | -0.55      | -5.24      | 0.47       |
| 168 | 3           | 10          | 0          | -0.67   | -1.60   | -11.44  | -0.40      | -5.28      | 0.54       |
| 172 | 3           | 10          | 5          | -0.63   | -0.93   | -11.55  | -0.42      | -5.21      | 0.33       |
| 188 | 3           | 10          | 10         | -0.65   | 0.21    | -11.76  | -0.21      | -4.34      | -0.11      |
| 192 | 3           | 10          | 15         | -0.84   | 2.13    | -12.10  | -0.01      | -2.94      | -0.63      |
| 220 | 3           | 20          | -15        | -1.03   | -7.84   | -9.45   | -0.09      | -3.59      | 0.64       |
| 216 | 3           | 20          | -10        | -0.83   | -5.45   | -10.31  | -0.30      | -4.52      | 1.12       |
| 212 | 3           | 20          | -5         | -0.67   | -4.34   | -10.70  | -0.46      | -4.96      | 1.35       |
| 204 | 3           | 20          | 5          | -0.54   | -2.86   | -11.23  | -0.48      | -4.95      | 1.11       |
| 208 | 3           | 20          | 5          | -0.50   | -3.64   | -10.95  | -0.49      | -5.14      | 1.35       |
| 200 | 3           | 20          | 10         | -0.64   | -1.73   | -11.65  | -0.28      | -4.33      | 0.53       |
| 196 | 3           | 20          | 15         | -0.82   | -0.27   | -12.19  | -0.16      | -3.09      | -0.20      |
| 420 | 6           | -10         | -15        | -0.24   | -0.86   | -11.91  | 0.05       | -7.77      | 0.86       |
| 416 | 6           | -10         | -10        | -0.23   | 0.18    | -11.72  | 0.17       | -8.21      | 0.03       |
| 412 | 6           | -10         | -5         | -0.17   | 1.21    | -11.54  | 0.19       | -8.44      | -1.07      |
| 409 | 6           | -10         | -5         | -0.18   | 1.29    | -11.52  | 0.22       | -8.41      | -1.05      |
| 394 | 6           | -10         | 0          | -0.22   | 2.35    | -11.34  | 0.32       | -8.37      | -1.97      |
| 398 | 6           | -10         | 5          | -0.31   | 3.51    | -11.15  | 0.37       | -7.96      | -2.86      |
| 402 | 6           | -10         | 10         | -0.40   | 5.11    | -10.87  | 0.32       | -7.11      | -4.07      |
| 406 | 6           | -10         | 15         | -0.53   | 7.64    | -10.44  | 0.17       | -5.68      | -5.93      |
| 296 | 6           | 0           | -15        | -0.31   | -2.81   | -11.59  | -0.19      | -7.99      | 1.97       |
| 292 | 6           | 0           | -10        | -0.29   | -1.47   | -11.58  | -0.14      | -8.60      | 1.01       |
| 288 | 6           | 0           | -5         | -0.25   | -0.35   | -11.58  | 0.01       | -8.98      | 0.29       |
| 268 | 6           | 0           | 0          | -0.12   | 0.48    | -11.57  | 0.00       | -9.04      | -0.55      |
| 274 | 6           | 0           | 5          | -0.28   | 1.51    | -11.58  | 0.11       | -8.74      | -1.37      |
| 278 | 6           | 0           | 10         | -0.27   | 2.78    | -11.58  | 0.25       | -8.13      | -2.31      |
| 284 | 6           | 0           | 15         | -0.45   | 4.73    | -11.60  | 0.21       | -7.24      | -3.90      |
| 300 | 6           | 10          | -15        | -0.43   | -5.25   | -10.85  | -0.37      | -7.32      | 3.58       |
| 305 | 6           | 10          | -10        | -0.32   | -3.42   | -11.16  | -0.42      | -8.28      | 2.43       |
| 309 | 6           | 10          | -5         | -0.31   | -2.37   | -11.35  | -0.44      | -8.76      | 1.66       |
| 325 | 6           | 10          | 0          | -0.21   | -1.23   | -11.54  | -0.27      | -9.05      | 0.89       |
| 329 | 6           | 10          | 5          | -0.18   | -0.08   | -11.74  | -0.17      | -8.91      | -0.18      |
| 333 | 6           | 10          | 10         | -0.22   | 1.07    | -11.94  | 0.00       | -8.48      | -1.19      |
| 337 | 6           | 10          | 15         | -0.28   | 2.36    | -12.18  | 0.07       | -7.89      | -2.40      |
| 365 | 6           | 20          | -15        | -0.53   | -8.12   | -9.40   | -0.39      | -6.22      | 5.36       |
| 361 | 6           | 20          | -10        | -0.44   | -5.76   | -10.25  | -0.55      | -7.45      | 4.09       |
| 357 | 6           | 20          | -5         | -0.40   | -4.36   | -10.75  | -0.64      | -8.13      | 3.25       |
| 341 | 6           | 20          | 0          | -0.38   | -3.11   | -11.20  | -0.63      | -8.47      | 2.26       |
| 345 | 6           | 20          | 5          | -0.34   | -1.93   | -11.63  | -0.58      | -8.70      | 1.21       |
| 349 | 6           | 20          | 10         | -0.30   | -0.60   | -12.11  | -0.42      | -8.49      | -0.16      |
| 353 | 6           | 20          | 15         | -0.27   | 0.18    | -12.39  | -0.32      | -8.29      | -0.91      |

\* Indicates model was close to heave stop

TABLE 6.213.1 - STABILITY DATA IN BODY AXES AT PIVOT

20 deg Deadrise, L/R = 0.117, Cv = 3

| RUN   | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|-------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 587   | 0           | -10         | -10        | -5.18   | -5.75   | -12.68  | 0.73       | 10.61      | -7.43      |
| 583   | 0           | -10         | -5         | -3.87   | -0.58   | -11.77  | 0.57       | 6.34       | -2.63      |
| 571   | 0           | -10         | 0          | -3.52   | 2.45    | -11.24  | 0.45       | 3.01       | -0.30      |
| 575   | 0           | -10         | 5          | -4.48   | 6.86    | -10.46  | -0.08      | 4.19       | 0.92       |
| 579 * | 0           | -10         | 10         | -5.92   | 16.60   | -8.74   | -1.22      | 7.07       | 3.85       |
| 466 * | 0           | 0           | -10        | -6.04   | -11.70  | -11.49  | 1.31       | 5.35       | -10.58     |
| 461   | 0           | 0           | -5         | -4.07   | -3.03   | -11.49  | 0.28       | 4.51       | -4.90      |
| 444   | 0           | 0           | 0          | -3.58   | 0.05    | -11.49  | 0.15       | 4.60       | -1.64      |
| 448   | 0           | 0           | 5          | -4.08   | 3.07    | -11.49  | 0.05       | 5.90       | 0.59       |
| 452 * | 0           | 0           | 10         | -5.77   | 12.12   | -11.49  | -0.52      | 9.91       | 0.07       |
| 456 * | 0           | 0           | 15         | -6.18   | 22.76   | -11.49  | -0.47      | 12.16      | 2.14       |
| 536   | 0           | 10          | -10        | -5.60   | -14.68  | -9.08   | 0.96       | -0.04      | -12.77     |
| 532   | 0           | 10          | -5         | -4.02   | -5.71   | -10.66  | 0.07       | 0.42       | -5.22      |
| 473   | 0           | 10          | 0          | -3.58   | -2.69   | -11.19  | -0.65      | 2.40       | -3.18      |
| 478   | 0           | 10          | 5          | -3.72   | 0.73    | -11.80  | 0.11       | 5.76       | -0.73      |
| 527   | 0           | 10          | 10         | -4.64   | 5.76    | -12.68  | 0.15       | 9.80       | 0.75       |
| 528   | 0           | 10          | 10         | -4.67   | 5.73    | -12.68  | 0.13       | 9.86       | 0.72       |
| 562 * | 0           | 20          | -10        | -6.74   | -16.31  | -6.29   | 1.63       | 9.09       | -14.55     |
| 567   | 0           | 20          | -8         | -4.99   | -12.75  | -7.59   | 1.00       | 0.10       | -9.47      |
| 557   | 0           | 20          | -5         | -3.96   | -7.59   | -9.47   | 0.13       | -0.25      | -4.47      |
| 558   | 0           | 20          | -5         | -4.02   | -7.80   | -9.39   | 0.01       | -0.25      | -4.62      |
| 540   | 0           | 20          | 0          | -3.38   | -4.03   | -10.76  | -0.22      | 0.31       | -2.41      |
| 546   | 0           | 20          | 5          | -3.31   | -1.45   | -11.70  | -0.19      | 3.94       | -2.26      |
| 550   | 0           | 20          | 10         | -3.29   | 1.30    | -12.70  | 0.03       | 5.94       | -1.74      |
| 252   | 3           | -10         | -15        | -1.31   | -3.16   | -12.31  | -0.36      | -5.19      | 1.43       |
| 247   | 3           | -10         | -10        | -1.48   | -1.04   | -11.95  | 0.05       | -3.96      | 0.42       |
| 243   | 3           | -10         | -5         | -1.53   | 0.77    | -11.63  | 0.41       | -2.83      | -0.09      |
| 239   | 3           | -10         | 0          | -1.75   | 3.05    | -11.24  | 0.66       | -2.73      | -1.08      |
| 235   | 3           | -10         | 5          | -2.31   | 6.27    | -10.70  | 0.67       | -1.54      | -2.58      |
| 231   | 3           | -10         | 10         | -3.35   | 14.06   | -9.38   | 0.37       | 2.71       | -5.29      |
| 227 * | 3           | -10         | 15         | -5.17   | 33.17   | -6.11   | -1.13      | 11.07      | -5.17      |
| 111   | 3           | 0           | -15        | -3.13   | -11.40  | -11.67  | -0.78      | 2.08       | 0.07       |
| 106   | 3           | 0           | -10        | -2.09   | -3.65   | -11.62  | -0.56      | -2.60      | -0.23      |
| 102   | 3           | 0           | -5         | -1.77   | -0.99   | -11.60  | -0.21      | -3.75      | -0.52      |
| 98    | 3           | 0           | 0          | -1.48   | 0.89    | -11.58  | 0.13       | -4.00      | -0.73      |
| 94    | 3           | 0           | 5          | -1.86   | 3.55    | -11.60  | 0.48       | -3.04      | -1.67      |
| 89    | 3           | 0           | 10         | -2.55   | 7.96    | -11.64  | 0.82       | -0.25      | -3.47      |
| 85    | 3           | 0           | 15         | -4.04   | 19.86   | -11.72  | 0.58       | 6.03       | -7.05      |

\* Indicates model was close to heave stop

TABLE 6.213.2 - STABILITY DATA IN BODY AXES AT PIVOT

20 deg Deadrise, L/R = 0.117, Cv = 3

| RUN | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|-----|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 115 | 3           | 10          | -15        | -4.49   | -22.41  | -7.97   | -0.04      | 5.20       | -1.77      |
| 155 | 3           | 10          | -15        | -4.31   | -20.69  | -8.26   | -0.53      | 4.91       | -0.76      |
| 156 | 3           | 10          | -15        | -4.32   | -20.88  | -8.23   | -0.21      | 4.92       | -0.92      |
| 161 | 3           | 10          | -10        | -2.65   | -7.25   | -10.55  | -0.72      | -1.30      | 0.92       |
| 165 | 3           | 10          | -5         | -1.92   | -2.94   | -11.27  | -0.70      | -3.60      | 0.08       |
| 169 | 3           | 10          | 0          | -1.63   | -0.79   | -11.63  | -0.33      | -4.23      | -0.56      |
| 173 | 3           | 10          | 5          | -1.37   | 0.97    | -11.93  | 0.07       | -5.13      | -0.95      |
| 189 | 3           | 10          | 10         | -1.35   | 2.96    | -12.28  | 0.43       | -5.79      | -2.04      |
| 193 | 3           | 10          | 15         | -1.42   | 5.62    | -12.75  | 0.89       | -5.66      | -3.72      |
| 221 | 3           | 20          | -15        | -3.82   | -20.12  | -5.13   | -0.05      | 2.37       | -0.80      |
| 217 | 3           | 20          | -10        | -2.59   | -9.10   | -9.08   | -0.49      | -0.85      | 1.31       |
| 213 | 3           | 20          | -5         | -1.88   | -4.65   | -10.65  | -0.55      | -3.42      | 0.83       |
| 209 | 3           | 20          | 0          | -1.60   | -2.73   | -11.34  | -0.44      | -4.24      | -0.07      |
| 205 | 3           | 20          | 5          | -1.34   | -1.01   | -11.95  | -0.04      | -5.61      | -0.33      |
| 201 | 3           | 20          | 10         | -1.26   | 0.86    | -12.63  | 0.31       | -7.11      | -1.23      |
| 197 | 3           | 20          | 15         | -1.15   | 2.92    | -13.37  | 0.71       | -8.98      | -2.66      |
| 421 | 6           | -10         | -15        | -0.35   | -1.42   | -12.02  | -0.27      | -13.59     | 2.10       |
| 417 | 6           | -10         | -10        | -0.35   | -0.29   | -11.82  | -0.02      | -12.44     | 0.84       |
| 413 | 6           | -10         | -5         | -0.32   | 0.77    | -11.63  | 0.15       | -10.69     | -0.30      |
| 395 | 6           | -10         | 0          | -0.74   | 2.10    | -11.44  | 0.49       | -8.57      | -1.28      |
| 399 | 6           | -10         | 5          | -1.09   | 5.25    | -10.92  | 0.74       | -7.06      | -4.73      |
| 403 | 6           | -10         | 10         | -1.49   | 10.29   | -10.08  | 0.78       | -4.16      | -9.27      |
| 407 | 6           | -10         | 15         | -1.96   | 19.36   | -8.53   | 0.60       | 1.23       | -15.82     |
| 297 | 6           | 0           | -15        | -0.75   | -3.51   | -11.63  | -0.78      | -9.91      | 3.28       |
| 293 | 6           | 0           | -10        | -0.57   | -1.75   | -11.61  | -0.43      | -10.74     | 1.72       |
| 289 | 6           | 0           | -5         | -0.37   | -0.47   | -11.59  | -0.18      | -10.99     | 0.45       |
| 269 | 6           | 0           | 0          | -0.41   | 0.92    | -11.60  | 0.20       | -10.95     | -0.73      |
| 275 | 6           | 0           | 5          | -0.55   | 2.26    | -11.61  | 0.53       | -10.45     | -2.00      |
| 279 | 6           | 0           | 10         | -0.87   | 4.52    | -11.65  | 0.81       | -9.66      | -4.43      |
| 280 | 6           | 0           | 10         | -0.85   | 4.43    | -11.64  | 0.78       | -9.60      | -4.41      |
| 285 | 6           | 0           | 15         | -1.19   | 8.67    | -11.68  | 1.11       | -7.42      | -8.59      |
| 302 | 6           | 10          | -15        | -1.35   | -8.69   | -10.34  | -0.91      | -5.09      | 6.93       |
| 306 | 6           | 10          | -10        | -1.10   | -4.02   | -11.14  | -0.79      | -7.90      | 3.11       |
| 310 | 6           | 10          | -5         | -0.72   | -1.70   | -11.51  | -0.48      | -9.61      | 1.12       |
| 326 | 6           | 10          | 0          | -0.37   | -0.47   | -11.69  | -0.27      | -11.56     | 0.05       |
| 330 | 6           | 10          | 5          | -0.25   | 0.72    | -11.88  | 0.00       | -13.19     | -1.29      |
| 334 | 6           | 10          | 10         | -0.24   | 1.87    | -12.09  | 0.23       | -14.49     | -2.63      |
| 338 | 6           | 10          | 15         | -0.29   | 3.03    | -12.30  | 0.35       | -15.39     | -4.22      |
| 366 | 6           | 20          | -15        | -1.79   | -14.80  | -7.11   | -0.45      | -1.71      | 10.47      |
| 362 | 6           | 20          | -10        | -1.44   | -7.62   | -9.68   | -0.85      | -5.63      | 5.73       |
| 358 | 6           | 20          | -5         | -1.27   | -3.90   | -11.02  | -0.88      | -7.95      | 2.66       |
| 342 | 6           | 20          | 0          | -0.70   | -1.75   | -11.74  | -0.61      | -10.43     | 0.89       |
| 346 | 6           | 20          | 5          | -0.54   | -1.09   | -11.96  | -0.53      | -12.77     | 0.36       |
| 350 | 6           | 20          | 10         | -0.39   | -0.48   | -12.16  | -0.51      | -14.60     | -0.09      |
| 354 | 6           | 20          | 15         | -0.25   | -0.15   | -12.27  | -0.63      | -15.63     | -0.53      |

\* Indicates model was close to heave stop



TABLE 6.214.1 - STABILITY DATA IN BODY AXES AT PIVOT

20 deg Deadrise, L/R = 0.117, Cv = 4

| RUN   | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|-------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 588   | 0           | -10         | -10        | -8.59   | -10.30  | -13.48  | 0.83       | 20.45      | -12.46     |
| 584   | 0           | -10         | -5         | -6.08   | -1.66   | -11.96  | 0.35       | 12.88      | -3.45      |
| 572   | 0           | -10         | 0          | -5.86   | 2.20    | -11.28  | 0.25       | 9.15       | 0.83       |
| 576 * | 0           | -10         | 5          | -9.16   | 11.60   | -9.62   | -0.54      | 11.19      | 0.60       |
| 580 * | 0           | -10         | 10         | -9.61   | 27.82   | -6.76   | -2.35      | 13.17      | 6.57       |
| 467 * | 0           | 0           | -10        | -10.37  | -19.87  | -11.49  | 1.57       | 11.45      | -19.60     |
| 462   | 0           | 0           | -5         | -6.87   | -5.09   | -11.49  | 0.55       | 10.50      | -8.95      |
| 445   | 0           | 0           | 0          | -5.51   | -0.28   | -11.49  | 0.06       | 10.00      | -2.14      |
| 449   | 0           | 0           | 5          | -6.73   | 4.93    | -11.49  | 0.03       | 12.12      | 1.23       |
| 453 * | 0           | 0           | 10         | -9.70   | 19.96   | -11.49  | -0.92      | 18.18      | 1.50       |
| 457 * | 0           | 0           | 15         | -10.79  | 39.29   | -11.49  | -1.56      | 21.99      | 4.34       |
| 537 * | 0           | 10          | -10        | -10.15  | -25.98  | -7.09   | 2.86       | 1.56       | -27.04     |
| 533   | 0           | 10          | -5         | -7.67   | -9.14   | -10.06  | 0.44       | 3.72       | -11.25     |
| 474   | 0           | 10          | 0          | -5.92   | -2.31   | -11.26  | 0.43       | 8.11       | -5.63      |
| 519   | 0           | 10          | 0          | -5.92   | -2.51   | -11.23  | 0.23       | 8.36       | -5.89      |
| 520   | 0           | 10          | 0          | -5.78   | -2.66   | -11.20  | 0.22       | 7.96       | -5.70      |
| 479   | 0           | 10          | 5          | -5.45   | 1.43    | -11.92  | 0.26       | 9.64       | -2.02      |
| 521   | 0           | 10          | 5          | -5.40   | 1.20    | -11.88  | 0.30       | 9.71       | -2.04      |
| 529   | 0           | 10          | 10         | -6.05   | 7.47    | -12.98  | 0.73       | 13.21      | 0.28       |
| 563   | 0           | 20          | -10        | -11.02  | -22.61  | -4.00   | 2.49       | 17.10      | -26.05     |
| 566 * | 0           | 20          | -8         | -10.25  | -23.86  | -3.54   | 2.41       | -1.84      | -26.65     |
| 554   | 0           | 20          | -5         | -7.36   | -10.54  | -8.39   | 0.79       | 0.93       | -10.70     |
| 559   | 0           | 20          | -5         | -7.71   | -11.99  | -7.86   | 0.16       | 0.70       | -12.00     |
| 541   | 0           | 20          | 0          | -6.41   | -4.06   | -10.75  | -0.04      | 2.66       | -5.19      |
| 547   | 0           | 20          | 5          | -5.03   | -1.43   | -11.71  | -0.04      | 7.54       | -4.31      |
| 564   | 0           | 20          | 5          | -5.15   | -1.19   | -11.79  | -0.03      | 7.87       | -4.26      |
| 551   | 0           | 20          | 10         | -4.27   | 1.82    | -12.89  | -0.37      | 5.25       | -3.41      |
| 552   | 0           | 20          | 10         | -4.25   | 1.83    | -12.89  | -0.39      | 5.25       | -3.42      |
| 565   | 0           | 20          | 10         | -4.29   | 1.49    | -12.77  | -0.35      | 5.71       | -3.39      |
| 253   | 3           | -10         | -15        | -1.49   | -3.65   | -12.41  | -0.45      | -10.46     | 3.47       |
| 248   | 3           | -10         | -10        | -1.69   | -1.38   | -12.02  | -0.08      | -8.23      | 1.56       |
| 249   | 3           | -10         | -10        | -1.59   | -1.28   | -11.99  | -0.08      | -8.25      | 1.52       |
| 244   | 3           | -10         | -5         | -2.03   | 0.68    | -11.67  | 0.19       | -4.83      | 0.07       |
| 240   | 3           | -10         | 0          | -2.56   | 3.46    | -11.21  | 0.81       | -1.45      | -1.03      |
| 236   | 3           | -10         | 5          | -3.54   | 8.55    | -10.36  | 0.87       | 1.17       | -4.20      |
| 232   | 3           | -10         | 10         | -6.02   | 23.87   | -7.80   | 0.43       | 11.08      | -7.99      |
| 228 * | 3           | -10         | 15         | -8.41   | 56.15   | -2.23   | -1.76      | 24.10      | -8.01      |
| 254 * | 3           | -10         | 15         | -8.44   | 55.77   | -2.30   | -2.13      | 24.00      | -7.70      |
| 112   | 3           | 0           | -15        | -4.31   | -15.28  | -11.73  | -1.52      | 4.10       | 1.86       |
| 107   | 3           | 0           | -10        | -2.38   | -3.68   | -11.63  | -0.79      | -4.05      | 0.88       |
| 103   | 3           | 0           | -5         | -2.31   | -0.94   | -11.63  | -0.23      | -5.06      | 0.03       |
| 99    | 3           | 0           | 0          | -2.27   | 1.42    | -11.62  | 0.28       | -4.85      | -0.71      |
| 95    | 3           | 0           | 5          | -2.60   | 4.67    | -11.64  | 0.84       | -3.60      | -2.48      |
| 82    | 3           | 0           | 10         | -3.58   | 10.58   | -11.69  | 1.37       | 0.68       | -5.52      |
| 84    | 3           | 0           | 15         | -6.48   | 30.96   | -11.85  | 1.38       | 13.54      | -10.74     |

\* Indicates model was close to heave stop

TABLE 6.214.2 - STABILITY DATA IN BODY AXES AT PIVOT

20 deg Deadrise, L/R = 0.117, Cv = 4

| RUN | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|-----|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 158 | 3           | 10          | -15        | -7.24   | -32.12  | -6.41   | -1.47      | 9.87       | -5.18      |
| 162 | 3           | 10          | -10        | -3.59   | -7.66   | -10.52  | -1.13      | 0.43       | 1.32       |
| 166 | 3           | 10          | -5         | -2.74   | -2.74   | -11.35  | -0.81      | -3.02      | -0.20      |
| 170 | 3           | 10          | 0          | -2.11   | -0.30   | -11.74  | -0.21      | -6.24      | -0.59      |
| 174 | 3           | 10          | 5          | -1.82   | 1.84    | -12.10  | 0.20       | -9.33      | -2.00      |
| 186 | 3           | 10          | 5          | -1.69   | 1.83    | -12.10  | 0.11       | -9.38      | -2.09      |
| 190 | 3           | 10          | 10         | -1.56   | 4.13    | -12.49  | 0.39       | -11.47     | -4.34      |
| 194 | 3           | 10          | 15         | -1.49   | 6.89    | -12.98  | 0.78       | -13.04     | -7.02      |
| 222 | 3           | 20          | -15        | -4.98   | -23.37  | -4.02   | -0.85      | 5.68       | -0.44      |
| 224 | 3           | 20          | -14        | -6.89   | -31.29  | -1.24   | -0.29      | 11.30      | -3.72      |
| 223 | 3           | 20          | -13        | -6.31   | -24.90  | -3.53   | -0.87      | 8.70       | -1.82      |
| 218 | 3           | 20          | -10        | -3.78   | -10.19  | -8.75   | -0.84      | 1.47       | 1.39       |
| 214 | 3           | 20          | -5         | -2.69   | -4.53   | -10.75  | -0.80      | -2.60      | 0.30       |
| 210 | 3           | 20          | 0          | -2.07   | -2.32   | -11.52  | -0.36      | -6.04      | 0.27       |
| 206 | 3           | 20          | 5          | -1.72   | -0.39   | -12.20  | -0.06      | -9.71      | -0.49      |
| 202 | 3           | 20          | 10         | -1.52   | 1.76    | -12.97  | 0.17       | -12.29     | -2.11      |
| 198 | 3           | 20          | 15         | -1.40   | 3.85    | -13.73  | 0.32       | -14.20     | -4.26      |
| 422 | 6           | -10         | -15        | -0.36   | -0.93   | -11.93  | 0.02       | -15.56     | 1.53       |
| 418 | 6           | -10         | -10        | -0.29   | 0.33    | -11.70  | 0.16       | -14.69     | -0.09      |
| 414 | 6           | -10         | -5         | -0.30   | 1.40    | -11.52  | 0.31       | -13.76     | -1.43      |
| 396 | 6           | -10         | 0          | -0.60   | 2.79    | -11.30  | 0.62       | -12.27     | -2.79      |
| 400 | 6           | -10         | 5          | -1.07   | 5.00    | -10.96  | 0.90       | -9.73      | -5.28      |
| 404 | 6           | -10         | 10         | -1.80   | 10.72   | -10.03  | 1.18       | -5.64      | -11.45     |
| 408 | 6           | -10         | 15         | -2.72   | 25.79   | -7.47   | 1.00       | 4.81       | -23.91     |
| 298 | 6           | 0           | -15        | -0.59   | -3.74   | -11.62  | -0.91      | -14.93     | 5.18       |
| 294 | 6           | 0           | -10        | -0.50   | -2.01   | -11.61  | -0.55      | -14.95     | 2.94       |
| 290 | 6           | 0           | -5         | -0.29   | -0.40   | -11.58  | -0.24      | -15.17     | 0.71       |
| 270 | 6           | 0           | 0          | -0.25   | 1.54    | -11.58  | 0.37       | -15.04     | -1.25      |
| 272 | 6           | 0           | 0          | -0.19   | 1.12    | -11.57  | 0.13       | -15.13     | -1.44      |
| 276 | 6           | 0           | 5          | -0.46   | 2.74    | -11.60  | 0.48       | -15.21     | -3.60      |
| 281 | 6           | 0           | 10         | -0.55   | 4.34    | -11.61  | 0.82       | -15.09     | -5.78      |
| 286 | 6           | 0           | 15         | -0.67   | 6.22    | -11.62  | 1.22       | -14.71     | -8.09      |
| 303 | 6           | 10          | -15        | -1.28   | -7.36   | -10.57  | -1.42      | -7.74      | 7.83       |
| 307 | 6           | 10          | -10        | -0.97   | -3.75   | -11.17  | -1.08      | -10.93     | 4.03       |
| 311 | 6           | 10          | -5         | -0.58   | -2.17   | -11.41  | -0.71      | -13.28     | 2.60       |
| 322 | 6           | 10          | -5         | -0.62   | -2.36   | -11.38  | -0.87      | -13.28     | 2.51       |
| 327 | 6           | 10          | 0          | -0.35   | -0.94   | -11.60  | -0.57      | -14.89     | 1.07       |
| 331 | 6           | 10          | 5          | -0.16   | 0.14    | -11.77  | -0.43      | -15.55     | -0.41      |
| 335 | 6           | 10          | 10         | -0.26   | 1.34    | -11.99  | -0.34      | -16.80     | -2.16      |
| 339 | 6           | 10          | 15         | -0.28   | 2.79    | -12.25  | -0.23      | -17.43     | -4.10      |
| 367 | 6           | 20          | -15        | -2.27   | -16.72  | -6.46   | -0.62      | 0.02       | 14.89      |
| 363 | 6           | 20          | -10        | -1.68   | -7.57   | -9.73   | -1.15      | -6.25      | 7.07       |
| 359 | 6           | 20          | -5         | -1.38   | -3.44   | -11.20  | -1.14      | -10.13     | 2.90       |
| 343 | 6           | 20          | 0          | -0.58   | -2.51   | -11.45  | -0.91      | -13.41     | 2.66       |
| 347 | 6           | 20          | 5          | -0.39   | -2.00   | -11.61  | -0.92      | -15.39     | 2.32       |
| 351 | 6           | 20          | 10         | -0.24   | -1.74   | -11.69  | -0.94      | -16.33     | 2.10       |
| 355 | 6           | 20          | 15         | -0.14   | -1.60   | -11.73  | -1.03      | -16.75     | 1.79       |

\* Indicates model was close to heave stop

TABLE 6.220.1 - STABILITY DATA IN BODY AXES AT PIVOT

20 deg Deadrise, L/R = 0.234, Cv = 0

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 2934 | 0           | -10         | -15        | 0.00    | 1.92    | -11.33  | 0.51       | -3.51      | -0.59      |
| 2930 | 0           | -10         | -10        | -0.02   | 1.94    | -11.33  | 0.54       | -3.45      | -0.62      |
| 2926 | 0           | -10         | -5         | -0.03   | 1.98    | -11.32  | 0.57       | -3.43      | -0.66      |
| 2912 | 0           | -10         | 0          | -0.04   | 1.95    | -11.32  | 0.49       | -3.31      | -0.56      |
| 2916 | 0           | -10         | 5          | -0.01   | 2.01    | -11.31  | 0.58       | -3.40      | -0.59      |
| 2920 | 0           | -10         | 10         | -0.01   | 1.97    | -11.32  | 0.56       | -3.38      | -0.58      |
| 2924 | 0           | -10         | 15         | -0.01   | 1.95    | -11.32  | 0.51       | -3.42      | -0.58      |
| 2830 | 0           | 0           | -15        | -0.04   | -0.08   | -11.49  | 0.12       | -3.89      | 0.00       |
| 2831 | 0           | 0           | -15        | -0.05   | -0.08   | -11.49  | 0.12       | -3.88      | 0.00       |
| 2825 | 0           | 0           | -10        | -0.05   | -0.06   | -11.49  | 0.10       | -3.78      | -0.01      |
| 2821 | 0           | 0           | -5         | -0.05   | -0.04   | -11.49  | 0.12       | -3.67      | -0.01      |
| 2797 | 0           | 0           | 0          | -0.03   | 0.02    | -11.49  | 0.11       | -3.61      | -0.03      |
| 2802 | 0           | 0           | 5          | -0.05   | 0.01    | -11.49  | 0.11       | -3.69      | -0.01      |
| 2816 | 0           | 0           | 10         | -0.07   | 0.07    | -11.49  | 0.18       | -3.66      | 0.09       |
| 2859 | 0           | 10          | -15        | -0.05   | -2.10   | -11.30  | -0.38      | -3.83      | 0.64       |
| 2855 | 0           | 10          | -10        | -0.06   | -2.04   | -11.31  | -0.32      | -3.90      | 0.67       |
| 2851 | 0           | 10          | -5         | -0.06   | -2.03   | -11.31  | -0.33      | -3.67      | 0.64       |
| 2835 | 0           | 10          | 0          | -0.02   | -2.08   | -11.30  | -0.37      | -3.54      | 0.64       |
| 2839 | 0           | 10          | 5          | -0.02   | -2.05   | -11.31  | -0.33      | -3.66      | 0.70       |
| 2843 | 0           | 10          | 10         | -0.05   | -2.05   | -11.31  | -0.34      | -3.65      | 0.67       |
| 2847 | 0           | 10          | 15         | -0.06   | -2.06   | -11.30  | -0.35      | -3.63      | 0.68       |
| 2895 | 0           | 20          | -15        | -0.08   | -3.98   | -10.78  | -0.50      | -3.97      | 1.46       |
| 2889 | 0           | 20          | -10        | -0.06   | -3.93   | -10.80  | -0.44      | -3.63      | 1.33       |
| 2891 | 0           | 20          | -10        | -0.07   | -3.97   | -10.78  | -0.47      | -3.60      | 1.33       |
| 2880 | 0           | 20          | -5         | -0.05   | -4.00   | -10.77  | -0.41      | -0.17      | 0.03       |
| 2885 | 0           | 20          | -5         | -0.05   | -3.96   | -10.79  | -0.44      | -3.55      | 1.30       |
| 2864 | 0           | 20          | 0          | -0.04   | -3.98   | -10.78  | -0.48      | -3.44      | 1.24       |
| 2868 | 0           | 20          | 5          | -0.01   | -4.00   | -10.77  | -0.46      | -3.51      | 1.28       |
| 2872 | 0           | 20          | 10         | -0.03   | -3.99   | -10.78  | -0.45      | -3.53      | 1.30       |
| 2876 | 0           | 20          | 15         | -0.07   | -3.96   | -10.79  | -0.46      | -3.52      | 1.28       |
| 3072 | 3           | -10         | -15        | 0.60    | 1.97    | -11.30  | 0.50       | -8.58      | -1.47      |
| 3068 | 3           | -10         | -10        | 0.59    | 1.99    | -11.30  | 0.55       | -8.57      | -1.48      |
| 3064 | 3           | -10         | -5         | 0.58    | 2.01    | -11.30  | 0.55       | -8.54      | -1.47      |
| 3047 | 3           | -10         | 0          | 0.63    | 1.91    | -11.31  | 0.49       | -8.42      | -1.48      |
| 3051 | 3           | -10         | 5          | 0.59    | 1.97    | -11.30  | 0.52       | -8.53      | -1.45      |
| 3056 | 3           | -10         | 10         | 0.59    | 1.98    | -11.30  | 0.51       | -8.54      | -1.45      |
| 3061 | 3           | -10         | 15         | 0.59    | 2.00    | -11.30  | 0.51       | -8.57      | -1.47      |
| 2967 | 3           | 0           | -15        | 0.60    | -0.01   | -11.47  | 0.15       | -9.12      | 0.04       |
| 2962 | 3           | 0           | -10        | 0.60    | -0.02   | -11.47  | 0.14       | -9.12      | 0.07       |
| 2958 | 3           | 0           | -5         | 0.59    | -0.02   | -11.47  | 0.16       | -9.13      | 0.05       |
| 2942 | 3           | 0           | 0          | 0.61    | -0.04   | -11.47  | 0.13       | -8.89      | 0.04       |
| 2946 | 3           | 0           | 5          | 0.60    | -0.02   | -11.47  | 0.16       | -9.05      | 0.10       |
| 2950 | 3           | 0           | 10         | 0.58    | -0.02   | -11.48  | 0.15       | -9.05      | 0.06       |
| 2954 | 3           | 0           | 15         | 0.57    | -0.04   | -11.48  | 0.12       | -9.03      | 0.03       |

\* Indicates model was close to heave stop

TABLE 6.220.2 - STABILITY DATA IN BODY AXES AT PIVOT

20 deg Deadrise, L/R = 0.234, Cv = 0

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 2984 | 3           | 10          | -15        | 0.61    | -2.00   | -11.30  | -0.19      | -8.74      | 1.56       |
| 2980 | 3           | 10          | -10        | 0.60    | -2.04   | -11.29  | -0.23      | -8.76      | 1.54       |
| 2976 | 3           | 10          | -5         | 0.59    | -2.03   | -11.29  | -0.25      | -8.71      | 1.54       |
| 2972 | 3           | 10          | 0          | 0.60    | -1.94   | -11.31  | -0.18      | -8.52      | 1.51       |
| 2989 | 3           | 10          | 5          | 0.57    | -2.02   | -11.30  | -0.22      | -8.81      | 1.54       |
| 2993 | 3           | 10          | 10         | 0.59    | -2.00   | -11.30  | -0.19      | -8.81      | 1.58       |
| 2997 | 3           | 10          | 15         | 0.58    | -2.03   | -11.29  | -0.25      | -8.80      | 1.55       |
| 3042 | 3           | 20          | -15        | 0.57    | -3.94   | -10.78  | -0.39      | -7.98      | 2.90       |
| 3037 | 3           | 20          | -10        | 0.58    | -3.95   | -10.77  | -0.41      | -7.91      | 2.92       |
| 3033 | 3           | 20          | -5         | 0.57    | -3.94   | -10.78  | -0.38      | -7.90      | 2.88       |
| 3003 | 3           | 20          | 0          | 0.58    | -3.92   | -10.78  | -0.39      | -7.93      | 2.89       |
| 3007 | 3           | 20          | 5          | 0.58    | -3.97   | -10.77  | -0.44      | -8.08      | 2.94       |
| 3024 | 3           | 20          | 10         | 0.60    | -3.97   | -10.77  | -0.45      | -7.88      | 2.92       |
| 3029 | 3           | 20          | 15         | 0.57    | -3.99   | -10.76  | -0.50      | -7.90      | 2.95       |
| 3198 | 6           | -10         | -15        | 1.21    | 2.03    | -11.24  | 0.44       | -11.96     | -2.01      |
| 3194 | 6           | -10         | -10        | 1.21    | 2.03    | -11.24  | 0.44       | -11.75     | -1.98      |
| 3190 | 6           | -10         | -5         | 1.21    | 2.03    | -11.24  | 0.43       | -11.94     | -2.02      |
| 3186 | 6           | -10         | 0          | 1.22    | 2.05    | -11.24  | 0.42       | -11.58     | -1.97      |
| 3202 | 6           | -10         | 5          | 1.20    | 2.03    | -11.24  | 0.46       | -11.75     | -1.97      |
| 3206 | 6           | -10         | 10         | 1.19    | 2.02    | -11.25  | 0.40       | -11.75     | -2.00      |
| 3210 | 6           | -10         | 15         | 1.20    | 2.03    | -11.24  | 0.41       | -11.66     | -1.96      |
| 3106 | 6           | 0           | -15        | 1.21    | 0.03    | -11.43  | 0.19       | -12.25     | 0.04       |
| 3101 | 6           | 0           | -10        | 1.21    | 0.04    | -11.43  | 0.21       | -12.30     | 0.05       |
| 3097 | 6           | 0           | -5         | 1.19    | 0.02    | -11.43  | 0.19       | -12.21     | 0.06       |
| 3079 | 6           | 0           | 0          | 1.21    | 0.02    | -11.43  | 0.14       | -12.17     | 0.01       |
| 3093 | 6           | 0           | 15         | 1.20    | 0.02    | -11.43  | 0.17       | -12.20     | 0.06       |
| 3150 | 6           | 10          | -15        | 1.22    | -1.96   | -11.25  | -0.07      | -11.90     | 2.11       |
| 3146 | 6           | 10          | -10        | 1.21    | -1.95   | -11.26  | -0.07      | -11.88     | 2.11       |
| 3142 | 6           | 10          | -5         | 1.21    | -1.96   | -11.26  | -0.06      | -11.86     | 2.12       |
| 3125 | 6           | 10          | 0          | 1.27    | -1.89   | -11.26  | -0.06      | -11.37     | 2.05       |
| 3129 | 6           | 10          | 5          | 1.21    | -1.97   | -11.25  | -0.10      | -11.87     | 2.12       |
| 3134 | 6           | 10          | 10         | 1.20    | -1.97   | -11.26  | -0.11      | -11.79     | 2.11       |
| 3138 | 6           | 10          | 15         | 1.17    | -1.98   | -11.26  | -0.11      | -11.79     | 2.08       |
| 3168 | 6           | 20          | -15        | 1.20    | -3.85   | -10.76  | -0.26      | -11.07     | 4.05       |
| 3164 | 6           | 20          | -10        | 1.20    | -3.88   | -10.75  | -0.29      | -11.05     | 4.04       |
| 3160 | 6           | 20          | -5         | 1.20    | -3.85   | -10.76  | -0.25      | -10.88     | 3.97       |
| 3156 | 6           | 20          | 0          | 1.23    | -3.89   | -10.74  | -0.32      | -10.73     | 3.93       |
| 3172 | 6           | 20          | 5          | 1.20    | -3.92   | -10.73  | -0.33      | -11.15     | 4.06       |
| 3176 | 6           | 20          | 10         | 1.21    | -3.87   | -10.75  | -0.29      | -10.67     | 3.90       |
| 3180 | 6           | 20          | 15         | 1.19    | -3.85   | -10.76  | -0.27      | -10.82     | 3.97       |

\* Indicates model was close to heave stop

TABLE 6.221.1 - STABILITY DATA IN BODY AXES AT PIVOT

20 deg Deadrise, L/R = 0.234, Cv = 1.5

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|--------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 2935   | 0           | -10         | -15        | -1.99   | -3.60   | -12.30  | 0.87       | 2.65       | -6.98      |
| 2936   | 0           | -10         | -15        | -1.92   | -3.48   | -12.28  | 0.86       | 2.56       | -6.82      |
| 2931   | 0           | -10         | -10        | -1.60   | -0.85   | -11.82  | 0.69       | 1.28       | -4.20      |
| 2927   | 0           | -10         | -5         | -1.41   | 0.86    | -11.52  | 0.66       | 0.70       | -2.28      |
| 2913   | 0           | -10         | 0          | -1.27   | 1.82    | -11.35  | 0.48       | 0.53       | -0.98      |
| 2917   | 0           | -10         | 5          | -1.31   | 2.70    | -11.19  | 0.41       | 0.99       | 0.10       |
| 2921   | 0           | -10         | 10         | -1.70   | 4.40    | -10.89  | 0.19       | 2.22       | 0.95       |
| 2925 * | 0           | -10         | 15         | -2.18   | 7.63    | -10.32  | -0.39      | 4.15       | 2.72       |
| 2832 * | 0           | 0           | -15        | -2.13   | -7.21   | -11.49  | 0.72       | 0.58       | -8.42      |
| 2826   | 0           | 0           | -10        | -1.70   | -3.16   | -11.49  | 0.51       | 0.48       | -4.49      |
| 2822   | 0           | 0           | -5         | -1.38   | -1.22   | -11.49  | 0.41       | 0.00       | -2.36      |
| 2799   | 0           | 0           | 0          | -1.33   | -0.20   | -11.49  | 0.23       | 0.22       | -1.11      |
| 2803   | 0           | 0           | 5          | -1.38   | 0.49    | -11.49  | 0.19       | 0.81       | -0.22      |
| 2817   | 0           | 0           | 10         | -1.58   | 1.83    | -11.49  | 0.08       | 2.02       | 0.76       |
| 2860 * | 0           | 10          | -15        | -2.40   | -8.33   | -10.20  | 0.72       | -0.21      | -8.20      |
| 2856   | 0           | 10          | -10        | -1.82   | -5.64   | -10.67  | 0.24       | -0.79      | -5.05      |
| 2852   | 0           | 10          | -5         | -1.48   | -3.40   | -11.07  | -0.01      | -0.70      | -2.58      |
| 2836   | 0           | 10          | 0          | -1.30   | -2.37   | -11.25  | -0.29      | -0.27      | -1.33      |
| 2840   | 0           | 10          | 5          | -1.33   | -1.50   | -11.40  | -0.30      | 0.47       | -0.46      |
| 2844   | 0           | 10          | 10         | -1.54   | -0.45   | -11.59  | -0.25      | 1.58       | 0.22       |
| 2848   | 0           | 10          | 15         | -1.98   | 1.81    | -11.99  | -0.34      | 4.10       | 0.97       |
| 2849   | 0           | 10          | 15         | -1.99   | 1.81    | -11.99  | -0.31      | 4.08       | 0.96       |
| 2894 * | 0           | 20          | -15        | -2.58   | -10.11  | -8.55   | 0.83       | -1.70      | -8.31      |
| 2890   | 0           | 20          | -10        | -1.89   | -6.73   | -9.78   | 0.12       | -1.66      | -4.20      |
| 2886   | 0           | 20          | -5         | -1.51   | -5.28   | -10.30  | -0.21      | -1.23      | -2.50      |
| 2865   | 0           | 20          | 0          | -1.27   | -4.19   | -10.70  | -0.44      | -0.57      | -1.47      |
| 2869   | 0           | 20          | 5          | -1.26   | -3.39   | -10.99  | -0.55      | 0.10       | -0.84      |
| 2873   | 0           | 20          | 10         | -1.38   | -2.26   | -11.40  | -0.57      | 1.45       | -0.30      |
| 2877   | 0           | 20          | 15         | -1.75   | -0.45   | -12.06  | -0.51      | 3.42       | 0.20       |
| 3073   | 3           | -10         | -15        | -0.91   | -1.25   | -11.95  | 0.34       | -2.54      | -1.74      |
| 3069   | 3           | -10         | -10        | -0.78   | 0.51    | -11.64  | 0.54       | -3.91      | -1.71      |
| 3065   | 3           | -10         | -5         | -0.70   | 1.70    | -11.42  | 0.60       | -4.51      | -1.65      |
| 3048   | 3           | -10         | 0          | -0.64   | 2.50    | -11.28  | 0.61       | -4.51      | -1.71      |
| 3052   | 3           | -10         | 5          | -0.73   | 3.46    | -11.11  | 0.59       | -3.92      | -1.77      |
| 3057   | 3           | -10         | 10         | -0.93   | 5.07    | -10.84  | 0.40       | -2.55      | -1.98      |
| 3060   | 3           | -10         | 15         | -1.33   | 8.75    | -10.21  | -0.00      | -0.27      | -2.60      |
| 2968   | 3           | 0           | -15        | -1.05   | -4.05   | -11.56  | 0.01       | -4.07      | -1.64      |
| 2963   | 3           | 0           | -10        | -0.83   | -1.79   | -11.55  | 0.09       | -5.13      | -0.97      |
| 2959   | 3           | 0           | -5         | -0.76   | -0.53   | -11.55  | 0.11       | -5.34      | -0.79      |
| 2943   | 3           | 0           | 0          | -0.67   | 0.29    | -11.54  | 0.20       | -5.14      | -0.82      |
| 2947   | 3           | 0           | 5          | -0.74   | 1.17    | -11.54  | 0.27       | -4.58      | -0.94      |
| 2951   | 3           | 0           | 10         | -0.92   | 2.51    | -11.55  | 0.23       | -3.46      | -1.31      |
| 2955   | 3           | 0           | 15         | -1.25   | 5.34    | -11.57  | 0.11       | -1.42      | -2.28      |

\* Indicates model was close to heave stop

TABLE 6.221.2 - STABILITY DATA IN BODY AXES AT PIVOT

20 deg Deadrise, L/R = 0.234, Cv = 1.5

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 2985 | 3           | 10          | -15        | -1.10   | -6.08   | -10.67  | -0.12      | -4.60      | -0.82      |
| 2986 | 3           | 10          | -15        | -1.09   | -6.07   | -10.67  | -0.09      | -4.60      | -0.89      |
| 2981 | 3           | 10          | -10        | -0.88   | -3.77   | -11.06  | -0.21      | -5.19      | -0.18      |
| 2977 | 3           | 10          | -5         | -0.78   | -2.63   | -11.26  | -0.28      | -5.42      | 0.09       |
| 2973 | 3           | 10          | 0          | -0.70   | -1.66   | -11.43  | -0.20      | -5.34      | 0.13       |
| 2990 | 3           | 10          | 5          | -0.76   | -0.96   | -11.55  | -0.23      | -5.00      | -0.14      |
| 2994 | 3           | 10          | 10         | -0.81   | 0.30    | -11.78  | 0.03       | -3.94      | -0.73      |
| 2998 | 3           | 10          | 15         | -1.04   | 2.12    | -12.11  | 0.05       | -2.21      | -1.62      |
| 3043 | 3           | 20          | -15        | -1.18   | -7.50   | -9.58   | 0.32       | -4.39      | -0.45      |
| 3038 | 3           | 20          | -10        | -0.86   | -5.79   | -10.18  | -0.19      | -4.96      | 0.61       |
| 3034 | 3           | 20          | -5         | -0.82   | -4.29   | -10.73  | -0.31      | -5.09      | 0.93       |
| 3004 | 3           | 20          | 0          | -0.72   | -3.54   | -11.00  | -0.46      | -5.03      | 0.86       |
| 3008 | 3           | 20          | 5          | -0.73   | -2.65   | -11.32  | -0.49      | -4.92      | 0.55       |
| 3025 | 3           | 20          | 10         | -0.68   | -1.52   | -11.73  | -0.46      | -4.38      | -0.11      |
| 3030 | 3           | 20          | 15         | -0.82   | -0.29   | -12.19  | -0.32      | -3.07      | -0.90      |
| 3199 | 6           | -10         | -15        | -0.33   | -0.74   | -11.90  | 0.26       | -7.81      | 0.59       |
| 3195 | 6           | -10         | -10        | -0.31   | 0.48    | -11.68  | 0.40       | -8.35      | -0.52      |
| 3191 | 6           | -10         | -5         | -0.32   | 1.62    | -11.48  | 0.49       | -8.54      | -1.57      |
| 3187 | 6           | -10         | 0          | -0.31   | 2.81    | -11.27  | 0.57       | -8.37      | -2.52      |
| 3203 | 6           | -10         | 5          | -0.45   | 4.01    | -11.07  | 0.64       | -7.76      | -3.41      |
| 3207 | 6           | -10         | 10         | -0.57   | 5.78    | -10.77  | 0.55       | -6.63      | -4.80      |
| 3211 | 6           | -10         | 15         | -0.73   | 9.15    | -10.20  | 0.38       | -4.37      | -7.08      |
| 3212 | 6           | -10         | 15         | -0.84   | 9.43    | -10.16  | 0.43       | -4.42      | -7.20      |
| 3107 | 6           | 0           | -15        | -0.42   | -2.67   | -11.60  | -0.08      | -8.37      | 1.53       |
| 3102 | 6           | 0           | -10        | -0.37   | -1.40   | -11.59  | 0.04       | -8.94      | 0.70       |
| 3098 | 6           | 0           | -5         | -0.37   | -0.28   | -11.59  | 0.16       | -9.02      | -0.12      |
| 3082 | 6           | 0           | 0          | -0.28   | 0.78    | -11.58  | 0.27       | -8.89      | -0.96      |
| 3085 | 6           | 0           | 5          | -0.35   | 1.83    | -11.59  | 0.37       | -8.50      | -1.84      |
| 3090 | 6           | 0           | 10         | -0.49   | 3.32    | -11.61  | 0.49       | -7.74      | -3.08      |
| 3094 | 6           | 0           | 15         | -0.62   | 5.59    | -11.62  | 0.39       | -6.42      | -5.08      |
| 3151 | 6           | 10          | -15        | -0.50   | -4.81   | -10.94  | -0.22      | -7.98      | 3.04       |
| 3147 | 6           | 10          | -10        | -0.38   | -3.20   | -11.21  | -0.22      | -8.62      | 2.15       |
| 3143 | 6           | 10          | -5         | -0.36   | -2.05   | -11.41  | -0.11      | -8.95      | 1.40       |
| 3126 | 6           | 10          | 0          | -0.28   | -0.97   | -11.59  | -0.06      | -8.92      | 0.55       |
| 3130 | 6           | 10          | 5          | -0.30   | 0.14    | -11.79  | 0.01       | -8.66      | -0.71      |
| 3135 | 6           | 10          | 10         | -0.37   | 1.25    | -11.99  | 0.17       | -8.06      | -1.73      |
| 3139 | 6           | 10          | 15         | -0.53   | 2.82    | -12.29  | 0.32       | -7.34      | -3.22      |
| 3169 | 6           | 20          | -15        | -0.58   | -7.36   | -9.68   | -0.15      | -7.09      | 4.68       |
| 3165 | 6           | 20          | -10        | -0.50   | -5.30   | -10.42  | -0.32      | -8.05      | 3.66       |
| 3161 | 6           | 20          | -5         | -0.46   | -3.98   | -10.90  | -0.32      | -8.48      | 2.87       |
| 3157 | 6           | 20          | 0          | -0.42   | -2.90   | -11.29  | -0.38      | -8.69      | 1.98       |
| 3173 | 6           | 20          | 5          | -0.56   | -1.52   | -11.80  | -0.30      | -8.91      | 0.77       |
| 3177 | 6           | 20          | 10         | -0.50   | -0.38   | -12.21  | -0.13      | -8.37      | -0.51      |
| 3181 | 6           | 20          | 15         | -0.49   | 0.64    | -12.58  | 0.09       | -8.16      | -1.47      |

\* Indicates model was close to heave stop

TABLE 6.223.1 - STABILITY DATA IN BODY AXES AT PIVOT

20 deg Deadrise, L/R = 0.234, Cv = 3

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 2937 | * 0         | -10         | -15        | -7.93   | -21.90  | -15.53  | 0.66       | 10.51      | -21.57     |
| 2939 | * 0         | -10         | -15        | -7.72   | -22.01  | -15.55  | 0.82       | 8.88       | -22.03     |
| 2932 | 0           | -10         | -10        | -5.37   | -9.48   | -13.34  | 0.88       | 10.13      | -12.94     |
| 2928 | 0           | -10         | -5         | -4.37   | -2.92   | -12.18  | 0.66       | 7.18       | -6.24      |
| 2914 | 0           | -10         | 0          | -4.06   | 1.30    | -11.44  | 0.58       | 4.59       | -3.33      |
| 2918 | 0           | -10         | 5          | -4.85   | 6.41    | -10.54  | 0.10       | 7.41       | -3.37      |
| 2922 | * 0         | -10         | 10         | -6.40   | 17.73   | -8.54   | -0.86      | 12.38      | -2.30      |
| 2833 | * 0         | 0           | -15        | -7.07   | -28.64  | -11.49  | 1.42       | 3.23       | -28.01     |
| 2828 | 0           | 0           | -10        | -5.84   | -13.04  | -11.49  | 1.22       | 2.06       | -14.79     |
| 2823 | 0           | 0           | -5         | -4.38   | -4.65   | -11.49  | 0.67       | 3.37       | -7.41      |
| 2800 | 0           | 0           | 0          | -4.05   | -0.69   | -11.49  | 0.61       | 4.39       | -4.16      |
| 2804 | 0           | 0           | 5          | -4.53   | 2.82    | -11.49  | 0.44       | 7.61       | -2.50      |
| 2818 | * 0         | 0           | 10         | -6.37   | 13.73   | -11.49  | -0.32      | 12.98      | -4.97      |
| 2857 | 0           | 10          | -10        | -5.68   | -18.19  | -8.46   | 1.33       | -4.11      | -18.06     |
| 2853 | 0           | 10          | -5         | -4.54   | -7.44   | -10.36  | 0.47       | -1.26      | -7.93      |
| 2837 | 0           | 10          | 0          | -4.00   | -2.76   | -11.18  | 0.16       | 1.04       | -4.47      |
| 2841 | 0           | 10          | 5          | -4.14   | 0.51    | -11.76  | 0.42       | 5.28       | -3.05      |
| 2845 | 0           | 10          | 10         | -4.95   | 5.71    | -12.67  | 0.61       | 8.75       | -2.76      |
| 2850 | * 0         | 10          | 15         | -6.86   | 20.33   | -15.25  | 0.25       | 14.67      | -4.78      |
| 2896 | * 0         | 20          | -15        | -9.24   | -30.73  | -1.04   | 1.70       | 13.76      | -32.05     |
| 2892 | 0           | 20          | -10        | -6.14   | -15.68  | -6.52   | 1.06       | 6.88       | -15.63     |
| 2887 | 0           | 20          | -5         | -4.43   | -9.60   | -8.73   | 0.37       | -2.22      | -8.02      |
| 2866 | 0           | 20          | 0          | -3.88   | -4.85   | -10.46  | -0.20      | -0.94      | -4.06      |
| 2870 | 0           | 20          | 5          | -3.79   | -1.39   | -11.72  | -0.05      | 2.09       | -3.58      |
| 2874 | 0           | 20          | 10         | -3.45   | 1.22    | -12.67  | 0.33       | 3.30       | -3.45      |
| 2878 | 0           | 20          | 15         | -3.05   | 3.57    | -13.53  | 0.25       | 1.81       | -3.55      |
| 2883 | 0           | 20          | 15         | -3.07   | 3.43    | -13.48  | 0.15       | 2.09       | -3.53      |
| 3074 | 3           | -10         | -15        | -1.66   | -3.24   | -12.34  | -0.03      | -2.99      | 0.02       |
| 3070 | 3           | -10         | -10        | -1.70   | -1.20   | -11.99  | 0.36       | -2.28      | -0.52      |
| 3066 | 3           | -10         | -5         | -1.79   | 0.70    | -11.66  | 0.70       | -1.61      | -0.86      |
| 3049 | 3           | -10         | 0          | -2.04   | 3.58    | -11.16  | 0.89       | -1.51      | -2.57      |
| 3053 | 3           | -10         | 5          | -2.61   | 7.35    | -10.53  | 0.89       | 0.48       | -4.52      |
| 3054 | 3           | -10         | 5          | -2.59   | 7.38    | -10.52  | 0.89       | 0.42       | -4.51      |
| 3058 | 3           | -10         | 10         | -3.78   | 16.73   | -8.93   | 0.52       | 6.34       | -8.30      |
| 3062 | * 3         | -10         | 15         | -5.75   | 35.98   | -5.64   | -0.76      | 16.69      | -9.34      |
| 2969 | 3           | 0           | -15        | -3.85   | -13.86  | -11.71  | -0.57      | 2.61       | -3.58      |
| 2964 | 3           | 0           | -10        | -2.45   | -4.62   | -11.63  | -0.25      | -2.02      | -1.96      |
| 2960 | 3           | 0           | -5         | -2.08   | -1.06   | -11.61  | 0.07       | -3.62      | -1.46      |
| 2944 | 3           | 0           | 0          | -2.00   | 1.03    | -11.61  | 0.33       | -3.48      | -2.05      |
| 2948 | 3           | 0           | 5          | -2.14   | 3.83    | -11.62  | 0.68       | -2.29      | -3.35      |
| 2953 | 3           | 0           | 10         | -2.76   | 8.58    | -11.65  | 0.99       | 0.70       | -6.27      |
| 2956 | 3           | 0           | 15         | -4.43   | 20.97   | -11.74  | 0.80       | 8.98       | -11.43     |

\* Indicates model was close to heave stop

TABLE 6.223.2 - STABILITY DATA IN BODY AXES AT PIVOT

20 deg Deadrise, L/R = 0.234, Cv = 3

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 2987 | 3           | 10          | -15        | -2.30   | -9.31   | -10.16  | -0.81      | 4.37       | 0.77       |
| 2982 | 3           | 10          | -10        | -2.88   | -7.05   | -10.59  | -0.38      | -2.66      | -0.90      |
| 2978 | 3           | 10          | -5         | -2.18   | -2.64   | -11.33  | -0.37      | -4.34      | -0.93      |
| 2974 | 3           | 10          | 0          | -1.89   | -0.63   | -11.67  | -0.04      | -4.55      | -1.45      |
| 2991 | 3           | 10          | 5          | -1.58   | 1.11    | -11.96  | 0.36       | -5.30      | -1.92      |
| 2995 | 3           | 10          | 10         | -1.55   | 3.19    | -12.33  | 0.88       | -6.31      | -3.00      |
| 2999 | 3           | 10          | 15         | -1.56   | 5.79    | -12.79  | 1.45       | -6.98      | -4.71      |
| 3044 | 3           | 20          | -15        | -2.98   | -14.13  | -7.27   | 0.60       | 4.69       | -0.67      |
| 3039 | 3           | 20          | -10        | -2.61   | -9.07   | -9.09   | -0.18      | 0.39       | -0.22      |
| 3035 | 3           | 20          | -5         | -2.30   | -4.42   | -10.76  | -0.45      | -4.34      | 0.62       |
| 3005 | 3           | 20          | 0          | -1.94   | -1.64   | -11.75  | -0.35      | -5.37      | -0.89      |
| 3009 | 3           | 20          | 5          | -1.71   | 0.01    | -12.34  | -0.02      | -7.15      | -1.65      |
| 3026 | 3           | 20          | 10         | -1.38   | 1.04    | -12.70  | 0.06       | -9.42      | -2.31      |
| 3031 | 3           | 20          | 15         | -1.19   | 2.19    | -13.11  | 0.10       | -12.16     | -3.16      |
| 3200 | 6           | -10         | -15        | -0.49   | -0.99   | -11.96  | 0.15       | -13.24     | 1.57       |
| 3196 | 6           | -10         | -10        | -0.63   | 0.01    | -11.80  | 0.36       | -11.66     | 0.33       |
| 3192 | 6           | -10         | -5         | -0.64   | 1.13    | -11.60  | 0.64       | -9.74      | -0.70      |
| 3188 | 6           | -10         | 0          | -1.11   | 3.58    | -11.22  | 0.97       | -8.17      | -3.39      |
| 3204 | 6           | -10         | 5          | -1.49   | 7.17    | -10.63  | 1.12       | -6.16      | -7.16      |
| 3208 | 6           | -10         | 10         | -1.84   | 13.11   | -9.62   | 1.26       | -2.50      | -12.48     |
| 3213 | 6           | -10         | 15         | -3.00   | 28.05   | -7.11   | 0.92       | 6.80       | -21.08     |
| 3108 | 6           | 0           | -15        | -0.91   | -2.98   | -11.65  | -0.43      | -10.12     | 2.49       |
| 3103 | 6           | 0           | -10        | -0.63   | -1.31   | -11.62  | -0.07      | -10.49     | 1.03       |
| 3104 | 6           | 0           | -10        | -0.65   | -1.33   | -11.62  | -0.07      | -10.80     | 1.08       |
| 3099 | 6           | 0           | -5         | -0.68   | 0.06    | -11.62  | 0.32       | -11.07     | -0.14      |
| 3081 | 6           | 0           | 0          | -0.74   | 1.31    | -11.63  | 0.62       | -10.98     | -1.36      |
| 3086 | 6           | 0           | 5          | -0.82   | 3.07    | -11.64  | 1.02       | -10.49     | -3.18      |
| 3091 | 6           | 0           | 10         | -1.08   | 5.79    | -11.67  | 1.43       | -9.53      | -6.16      |
| 3095 | 6           | 0           | 15         | -1.50   | 11.31   | -11.71  | 1.78       | -6.51      | -11.79     |
| 3152 | 6           | 10          | -15        | -1.45   | -6.75   | -10.70  | -0.59      | -6.42      | 4.86       |
| 3148 | 6           | 10          | -10        | -1.13   | -2.95   | -11.33  | -0.45      | -8.65      | 1.92       |
| 3144 | 6           | 10          | -5         | -0.83   | -0.93   | -11.66  | -0.04      | -10.70     | 0.42       |
| 3127 | 6           | 10          | 0          | -0.71   | 0.37    | -11.87  | 0.31       | -12.65     | -0.64      |
| 3131 | 6           | 10          | 5          | -0.58   | 1.44    | -12.05  | 0.55       | -14.44     | -2.07      |
| 3136 | 6           | 10          | 10         | -0.61   | 2.74    | -12.28  | 0.94       | -15.83     | -3.53      |
| 3140 | 6           | 10          | 15         | -0.57   | 3.65    | -12.44  | 1.03       | -16.82     | -4.87      |
| 3170 | 6           | 20          | -15        | -1.86   | -12.53  | -7.94   | -0.19      | -3.92      | 7.65       |
| 3166 | 6           | 20          | -10        | -1.48   | -5.76   | -10.37  | -0.50      | -7.19      | 3.83       |
| 3162 | 6           | 20          | -5         | -1.25   | -2.27   | -11.61  | -0.42      | -9.54      | 1.07       |
| 3158 | 6           | 20          | 0          | -1.14   | -0.02   | -12.42  | -0.24      | -11.96     | -0.80      |
| 3174 | 6           | 20          | 5          | -0.92   | 0.10    | -12.44  | 0.04       | -14.64     | -0.45      |
| 3178 | 6           | 20          | 10         | -0.76   | 0.27    | -12.48  | 0.06       | -16.03     | -0.63      |
| 3182 | 6           | 20          | 15         | -0.80   | 0.97    | -12.74  | 0.07       | -17.68     | -1.31      |

\* Indicates model was close to heave stop



TABLE 6.224.1 - STABILITY DATA IN BODY AXES AT PIVOT

20 deg Deadrise, L/R = 0.234, Cv = 4

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|--------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 2933   | 0           | -10         | -10        | -8.82   | -17.04  | -14.67  | 0.99       | 21.73      | -23.61     |
| 2929   | 0           | -10         | -5         | -6.91   | -6.40   | -12.80  | 0.71       | 16.78      | -10.49     |
| 2915   | 0           | -10         | 0          | -6.13   | -0.20   | -11.70  | 0.54       | 11.59      | -3.37      |
| 2919   | 0           | -10         | 5          | -8.50   | 10.74   | -9.77   | -0.00      | 14.52      | -7.83      |
| 2829   | 0           | 0           | -10        | -9.78   | -21.15  | -11.49  | 1.81       | 7.39       | -28.71     |
| 2824   | 0           | 0           | -5         | -6.88   | -7.93   | -11.49  | 0.95       | 9.58       | -13.41     |
| 2801   | 0           | 0           | 0          | -6.11   | -1.90   | -11.49  | 0.85       | 10.78      | -6.68      |
| 2805   | 0           | 0           | 5          | -7.16   | 5.26    | -11.49  | 0.66       | 14.10      | -5.09      |
| 2820 * | 0           | 0           | 10         | -9.80   | 22.34   | -11.49  | -0.20      | 21.74      | -7.96      |
| 2858   | 0           | 10          | -10        | -8.90   | -27.53  | -6.81   | 2.52       | -3.84      | -34.43     |
| 2854   | 0           | 10          | -5         | -7.67   | -10.67  | -9.79   | 0.95       | 0.19       | -15.38     |
| 2838   | 0           | 10          | 0          | -6.11   | -3.47   | -11.05  | 0.64       | 5.35       | -8.77      |
| 2842   | 0           | 10          | 5          | -6.53   | 2.26    | -12.07  | 1.01       | 9.99       | -5.99      |
| 2846   | 0           | 10          | 10         | -6.15   | 7.01    | -12.90  | 1.55       | 11.18      | -3.75      |
| 2893   | 0           | 20          | -10        | -10.09  | -22.54  | -4.02   | 1.66       | 14.77      | -30.52     |
| 2888   | 0           | 20          | -5         | -7.16   | -13.30  | -7.39   | 0.93       | -1.86      | -15.60     |
| 2867   | 0           | 20          | 0          | -6.29   | -4.95   | -10.43  | 0.19       | 0.26       | -8.09      |
| 2871   | 0           | 20          | 5          | -5.44   | -0.22   | -12.15  | 0.56       | 4.27       | -6.86      |
| 2875   | 0           | 20          | 10         | -4.19   | 2.30    | -13.07  | 0.05       | 2.32       | -5.30      |
| 2879   | 0           | 20          | 15         | -3.65   | 4.61    | -13.90  | -0.52      | -0.50      | -5.02      |
| 2884   | 0           | 20          | 15         | -3.60   | 4.50    | -13.87  | -0.54      | -0.26      | -4.97      |
| 3075   | 3           | -10         | -15        | -2.21   | -5.29   | -12.73  | -0.20      | -6.45      | 1.47       |
| 3071   | 3           | -10         | -10        | -2.31   | -2.47   | -12.24  | 0.39       | -3.46      | -0.13      |
| 3067   | 3           | -10         | -5         | -2.49   | 0.47    | -11.73  | 0.93       | -0.54      | -0.82      |
| 3050   | 3           | -10         | 0          | -3.03   | 4.38    | -11.07  | 1.23       | 1.32       | -2.99      |
| 3055   | 3           | -10         | 5          | -4.14   | 12.30   | -9.73   | 1.36       | 5.53       | -8.09      |
| 3059   | 3           | -10         | 10         | -6.08   | 28.23   | -7.03   | 0.79       | 16.58      | -14.42     |
| 2970   | 3           | 0           | -15        | -6.15   | -21.61  | -11.83  | -1.13      | 8.84       | -7.94      |
| 2965   | 3           | 0           | -10        | -3.67   | -5.96   | -11.70  | -0.59      | 0.01       | -3.67      |
| 2961   | 3           | 0           | -5         | -2.76   | -1.36   | -11.65  | 0.19       | -2.72      | -1.99      |
| 2945   | 3           | 0           | 0          | -2.77   | 1.78    | -11.65  | 0.55       | -3.04      | -2.71      |
| 2949   | 3           | 0           | 5          | -2.91   | 6.07    | -11.66  | 1.18       | -1.62      | -5.02      |
| 2952   | 3           | 0           | 10         | -3.65   | 12.77   | -11.70  | 1.92       | 1.80       | -9.34      |
| 2957   | 3           | 0           | 15         | -6.36   | 31.76   | -11.84  | 1.69       | 16.21      | -17.61     |

\* Indicates model was close to heave stop

TABLE 6.224.2 - STABILITY DATA IN BODY AXES AT PIVOT

20 deg Deadrise, L/R = 0.234, Cv = 4

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 2988 | 3           | 10          | -15        | -3.11   | -13.28  | -9.51   | -1.08      | 2.61       | 2.67       |
| 2983 | 3           | 10          | -10        | -4.81   | -9.46   | -10.27  | -0.61      | 0.26       | -3.71      |
| 2979 | 3           | 10          | -5         | -3.17   | -2.36   | -11.44  | -0.49      | -3.36      | -2.60      |
| 2975 | 3           | 10          | 0          | -2.51   | 0.39    | -11.89  | 0.12       | -6.26      | -2.20      |
| 2992 | 3           | 10          | 5          | -1.90   | 2.90    | -12.30  | 0.78       | -10.69     | -3.22      |
| 2996 | 3           | 10          | 10         | -1.75   | 5.59    | -12.76  | 1.37       | -13.95     | -5.54      |
| 3000 | 3           | 10          | 15         | -1.47   | 7.65    | -13.11  | 1.58       | -17.36     | -7.86      |
| 3045 | 3           | 20          | -15        | -3.96   | -17.72  | -6.01   | 0.77       | 6.65       | 0.79       |
| 3040 | 3           | 20          | -10        | -4.03   | -11.49  | -8.29   | -0.14      | 5.59       | -2.85      |
| 3041 | 3           | 20          | -10        | -4.06   | -11.42  | -8.31   | -0.18      | 5.51       | -2.68      |
| 3036 | 3           | 20          | -5         | -3.88   | -3.18   | -11.30  | -0.48      | -3.62      | -2.14      |
| 3006 | 3           | 20          | 0          | -2.71   | -0.08   | -12.37  | -0.33      | -7.12      | -1.58      |
| 3010 | 3           | 20          | 5          | -1.77   | 0.88    | -12.66  | -0.12      | -11.39     | -1.64      |
| 3027 | 3           | 20          | 10         | -1.27   | 1.74    | -12.95  | -0.13      | -14.35     | -2.23      |
| 3028 | 3           | 20          | 10         | -1.18   | 1.59    | -12.89  | -0.15      | -14.35     | -2.07      |
| 3032 | 3           | 20          | 15         | -0.91   | 2.40    | -13.17  | -0.21      | -17.04     | -2.77      |
| 3201 | 6           | -10         | -15        | -0.56   | -1.17   | -12.00  | 0.42       | -19.06     | 1.79       |
| 3197 | 6           | -10         | -10        | -0.88   | 0.15    | -11.80  | 0.65       | -17.47     | 0.06       |
| 3193 | 6           | -10         | -5         | -0.76   | 1.70    | -11.51  | 0.99       | -14.63     | -1.61      |
| 3189 | 6           | -10         | 0          | -1.37   | 4.15    | -11.15  | 1.39       | -10.81     | -4.21      |
| 3205 | 6           | -10         | 5          | -1.89   | 9.10    | -10.33  | 1.81       | -7.56      | -9.85      |
| 3209 | 6           | -10         | 10         | -2.18   | 16.86   | -8.99   | 1.94       | -2.17      | -18.03     |
| 3109 | 6           | 0           | -15        | -0.89   | -3.15   | -11.65  | -0.46      | -16.14     | 3.90       |
| 3105 | 6           | 0           | -10        | -0.68   | -1.31   | -11.62  | 0.02       | -16.87     | 1.88       |
| 3100 | 6           | 0           | -5         | -0.70   | 0.62    | -11.63  | 0.55       | -17.13     | -0.49      |
| 3083 | 6           | 0           | 0          | -0.70   | 2.50    | -11.63  | 1.03       | -16.93     | -2.76      |
| 3087 | 6           | 0           | 5          | -0.77   | 4.22    | -11.63  | 1.49       | -16.59     | -4.86      |
| 3092 | 6           | 0           | 10         | -0.98   | 6.55    | -11.66  | 2.12       | -15.54     | -7.70      |
| 3096 | 6           | 0           | 15         | -0.16   | 5.15    | -11.57  | 1.57       | -20.69     | -7.32      |
| 3153 | 6           | 10          | -15        | -2.03   | -7.40   | -10.64  | -0.96      | -8.27      | 6.78       |
| 3149 | 6           | 10          | -10        | -1.23   | -2.55   | -11.41  | -0.56      | -12.16     | 2.45       |
| 3145 | 6           | 10          | -5         | -0.93   | -0.66   | -11.71  | 0.01       | -16.03     | 1.07       |
| 3128 | 6           | 10          | 0          | -0.62   | 0.92    | -11.96  | 0.30       | -18.21     | -0.61      |
| 3132 | 6           | 10          | 5          | -0.59   | 2.25    | -12.19  | 0.48       | -19.70     | -2.56      |
| 3137 | 6           | 10          | 10         | -0.38   | 3.27    | -12.35  | 0.64       | -19.87     | -4.09      |
| 3141 | 6           | 10          | 15         | -0.47   | 4.55    | -12.58  | 0.80       | -21.93     | -5.87      |
| 3171 | 6           | 20          | -15        | -2.77   | -17.11  | -6.38   | -0.27      | -1.81      | 11.27      |
| 3167 | 6           | 20          | -10        | -2.03   | -5.75   | -10.43  | -0.68      | -8.45      | 4.88       |
| 3163 | 6           | 20          | -5         | -1.57   | -1.10   | -12.07  | -0.53      | -12.75     | 0.66       |
| 3159 | 6           | 20          | 0          | -1.04   | 0.57    | -12.62  | -0.36      | -16.25     | -0.55      |
| 3175 | 6           | 20          | 5          | -0.54   | -0.56   | -12.15  | -0.31      | -18.45     | 1.47       |
| 3179 | 6           | 20          | 10         | -0.53   | 0.01    | -12.36  | -0.31      | -20.37     | 1.04       |
| 3183 | 6           | 20          | 15         | -0.56   | 0.53    | -12.55  | -0.29      | -21.49     | 0.42       |

\* Indicates model was close to heave stop

TABLE 7.100.1 - STABILITY DATA IN BODY AXES AT TRANSOM

10 deg Deadrise, L/R = 0.000, Cv = 0

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 2112 | -2          | -10         | 0          | -0.44   | 1.97    | -11.31  | 1.26       | 22.38      | 3.86       |
| 2116 | -2          | -10         | 5          | -0.44   | 1.95    | -11.31  | 1.27       | 22.38      | 3.84       |
| 2120 | -2          | -10         | 10         | -0.43   | 1.95    | -11.31  | 1.27       | 22.35      | 3.81       |
| 2122 | -2          | -10         | 15         | -0.44   | 1.91    | -11.32  | 1.21       | 22.42      | 3.73       |
| 2059 | -2          | 0           | 0          | -0.44   | -0.07   | -11.48  | -0.00      | 23.12      | -0.12      |
| 2065 | -2          | 0           | 5          | -0.45   | -0.08   | -11.48  | -0.04      | 23.08      | -0.13      |
| 2069 | -2          | 0           | 10         | -0.44   | -0.06   | -11.48  | -0.00      | 23.02      | -0.12      |
| 2070 | -2          | 0           | 15         | -0.44   | -0.08   | -11.48  | -0.04      | 23.03      | -0.15      |
| 2074 | -2          | 10          | 0          | -0.44   | -2.04   | -11.30  | -1.25      | 22.18      | -3.93      |
| 2078 | -2          | 10          | 5          | -0.44   | -2.02   | -11.30  | -1.22      | 22.22      | -3.92      |
| 2081 | -2          | 10          | 10         | -0.41   | -2.07   | -11.29  | -1.32      | 22.16      | -4.01      |
| 2083 | -2          | 10          | 15         | -0.42   | -2.07   | -11.29  | -1.32      | 22.17      | -4.03      |
| 2090 | -2          | 20          | 0          | -0.40   | -3.94   | -10.79  | -2.06      | 20.63      | -7.42      |
| 2094 | -2          | 20          | 5          | -0.43   | -4.01   | -10.76  | -2.18      | 20.66      | -7.61      |
| 2098 | -2          | 20          | 10         | -0.45   | -4.01   | -10.76  | -2.14      | 20.64      | -7.60      |
| 2108 | -2          | 20          | 12         | -0.44   | -3.99   | -10.77  | -2.12      | 20.65      | -7.56      |
| 2101 | -2          | 20          | 15         | -0.43   | -3.99   | -10.77  | -2.14      | 20.62      | -7.56      |
| 1829 | 0           | -10         | 0          | 0.00    | 1.98    | -11.32  | 1.26       | 17.87      | 3.13       |
| 1833 | 0           | -10         | 5          | 0.01    | 1.99    | -11.32  | 1.27       | 17.84      | 3.15       |
| 1837 | 0           | -10         | 10         | 0.00    | 1.99    | -11.32  | 1.26       | 17.92      | 3.15       |
| 1843 | 0           | -10         | 15         | -0.00   | 1.99    | -11.32  | 1.26       | 17.85      | 3.14       |
| 1760 | 0           | 0           | 0          | 0.01    | 0.00    | -11.49  | -0.03      | 17.83      | 0.01       |
| 1764 | 0           | 0           | 5          | 0.02    | -0.02   | -11.49  | -0.06      | 17.82      | -0.03      |
| 1768 | 0           | 0           | 10         | 0.01    | -0.02   | -11.49  | -0.05      | 17.85      | -0.03      |
| 1773 | 0           | 0           | 15         | 0.00    | 0.01    | -11.49  | -0.01      | 17.85      | 0.03       |
| 1779 | 0           | 10          | 0          | 0.01    | -1.99   | -11.32  | -1.30      | 17.49      | -3.02      |
| 1783 | 0           | 10          | 5          | -0.02   | -2.01   | -11.31  | -1.35      | 17.55      | -3.12      |
| 1787 | 0           | 10          | 10         | 0.00    | -2.01   | -11.31  | -1.37      | 17.57      | -3.13      |
| 1792 | 0           | 10          | 15         | -0.00   | -2.01   | -11.31  | -1.36      | 17.53      | -3.11      |
| 1809 | 0           | 21          | 0          | 0.11    | -4.08   | -10.74  | -2.18      | 16.63      | -6.23      |
| 1814 | 0           | 21          | 5          | -0.00   | -4.11   | -10.73  | -2.21      | 16.71      | -6.37      |
| 1819 | 0           | 21          | 10         | -0.02   | -4.12   | -10.73  | -2.21      | 16.75      | -6.43      |
| 1823 | 0           | 21          | 15         | -0.02   | -4.15   | -10.71  | -2.29      | 16.80      | -6.55      |
| 1918 | 3           | -11         | 0          | 0.69    | 2.23    | -11.25  | 1.22       | 12.13      | 2.54       |
| 1922 | 3           | -11         | 5          | 0.63    | 2.27    | -11.25  | 1.26       | 12.16      | 2.63       |
| 1926 | 3           | -11         | 10         | 0.63    | 2.28    | -11.24  | 1.27       | 12.10      | 2.62       |
| 1930 | 3           | -11         | 15         | 0.65    | 2.25    | -11.25  | 1.23       | 12.06      | 2.57       |
| 1850 | 3           | 0           | 0          | 0.61    | 0.04    | -11.47  | -0.02      | 11.77      | 0.12       |
| 1854 | 3           | 0           | 0          | 0.61    | 0.03    | -11.47  | -0.02      | 11.81      | 0.09       |
| 1856 | 3           | 0           | 5          | 0.61    | 0.01    | -11.47  | -0.06      | 11.84      | 0.06       |
| 1860 | 3           | 0           | 10         | 0.62    | 0.03    | -11.47  | -0.05      | 11.87      | 0.08       |
| 1864 | 3           | 0           | 15         | 0.62    | 0.01    | -11.47  | -0.08      | 11.90      | 0.05       |

\* Indicates model was close to heave stop

TABLE 7.100.2 - STABILITY DATA IN BODY AXES AT TRANSOM

10 deg Deadrise, L/R = 0.000, Cv = 0

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 1880 | 3           | 10          | 0          | 0.62    | -1.92   | -11.31  | -1.12      | 12.05      | -1.99      |
| 1884 | 3           | 10          | 5          | 0.63    | -2.03   | -11.29  | -1.28      | 12.03      | -2.21      |
| 1888 | 3           | 10          | 10         | 0.63    | -1.93   | -11.31  | -1.14      | 11.97      | -2.01      |
| 1894 | 3           | 10          | 15         | 0.62    | -1.99   | -11.30  | -1.21      | 12.11      | -2.18      |
| 1900 | 3           | 21          | 0          | 0.62    | -4.09   | -10.72  | -2.18      | 11.90      | -4.60      |
| 1904 | 3           | 21          | 5          | 0.62    | -4.09   | -10.72  | -2.16      | 11.87      | -4.63      |
| 1908 | 3           | 21          | 10         | 0.62    | -4.10   | -10.71  | -2.17      | 11.90      | -4.65      |
| 1912 | 3           | 21          | 15         | 0.61    | -4.05   | -10.74  | -2.10      | 11.90      | -4.51      |
| 2022 | 6           | -10         | 0          | 1.22    | 2.04    | -11.24  | 0.99       | 8.82       | 1.86       |
| 2026 | 6           | -10         | 5          | 1.20    | 2.00    | -11.25  | 0.94       | 8.82       | 1.73       |
| 2030 | 6           | -10         | 10         | 1.20    | 1.97    | -11.26  | 0.90       | 8.78       | 1.66       |
| 2034 | 6           | -10         | 15         | 1.22    | 1.97    | -11.25  | 0.91       | 8.85       | 1.67       |
| 1963 | 6           | 0           | 0          | 1.19    | 0.03    | -11.43  | -0.04      | 8.84       | 0.13       |
| 1967 | 6           | 0           | 5          | 1.20    | 0.01    | -11.43  | -0.06      | 8.73       | 0.08       |
| 1972 | 6           | 0           | 10         | 1.21    | -0.01   | -11.43  | -0.08      | 8.81       | 0.02       |
| 1976 | 6           | 0           | 15         | 1.20    | -0.02   | -11.43  | -0.09      | 8.82       | -0.02      |
| 1982 | 6           | 10          | 0          | 1.19    | -1.98   | -11.25  | -1.05      | 8.91       | -1.62      |
| 1986 | 6           | 10          | 5          | 1.20    | -1.98   | -11.25  | -1.07      | 8.68       | -1.60      |
| 1990 | 6           | 10          | 10         | 1.21    | -2.00   | -11.25  | -1.10      | 8.74       | -1.64      |
| 1993 | 6           | 10          | 10         | 1.21    | -1.99   | -11.25  | -1.09      | 8.77       | -1.68      |
| 1995 | 6           | 10          | 15         | 1.21    | -1.99   | -11.25  | -1.10      | 8.73       | -1.65      |
| 2002 | 6           | 20          | 0          | 1.23    | -3.87   | -10.75  | -1.89      | 8.75       | -3.26      |
| 2007 | 6           | 20          | 5          | 1.18    | -3.88   | -10.75  | -1.91      | 8.82       | -3.31      |
| 2011 | 6           | 20          | 10         | 1.19    | -3.88   | -10.75  | -1.92      | 8.76       | -3.28      |
| 2015 | 6           | 20          | 15         | 1.19    | -3.88   | -10.75  | -1.91      | 8.74       | -3.28      |

\* Indicates model was close to heave stop

TABLE 7.101.1 - STABILITY DATA IN BODY AXES AT TRANSOM

10 deg Deadrise, L/R = 0.000, Cv = 1.5

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|--------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 2113   | -2          | -10         | 0          | -2.05   | 2.11    | -11.23  | 1.05       | 26.05      | 5.01       |
| 2117   | -2          | -10         | 5          | -2.24   | 3.27    | -11.02  | 1.32       | 25.63      | 8.91       |
| 2121   | -2          | -10         | 10         | -2.84   | 5.60    | -10.59  | 1.89       | 25.41      | 16.28      |
| 2123 * | -2          | -10         | 15         | -3.21   | 8.56    | -10.05  | 2.30       | 25.07      | 25.04      |
| 2060   | -2          | 0           | 0          | -2.10   | -0.02   | -11.42  | 0.17       | 27.06      | 0.00       |
| 2063   | -2          | 0           | 0          | -2.10   | -0.03   | -11.42  | 0.20       | 27.06      | 0.00       |
| 2066   | -2          | 0           | 5          | -2.24   | 0.96    | -11.42  | 0.26       | 27.34      | 3.28       |
| 2068   | -2          | 0           | 10         | -2.56   | 2.60    | -11.41  | 0.77       | 27.70      | 8.52       |
| 2071 * | -2          | 0           | 15         | -3.13   | 5.37    | -11.39  | 1.37       | 28.39      | 17.14      |
| 2075   | -2          | 10          | 0          | -2.01   | -2.18   | -11.22  | -0.95      | 25.87      | -5.12      |
| 2079   | -2          | 10          | 5          | -2.03   | -1.35   | -11.36  | -0.81      | 26.86      | -2.35      |
| 2082   | -2          | 10          | 10         | -2.22   | -0.09   | -11.58  | -0.72      | 28.05      | 1.54       |
| 2084   | -2          | 10          | 15         | -2.72   | 2.25    | -11.97  | -0.16      | 29.96      | 8.65       |
| 2091   | -2          | 20          | 0          | -1.89   | -4.08   | -10.68  | -1.72      | 23.86      | -9.06      |
| 2095   | -2          | 20          | 5          | -2.01   | -3.32   | -10.95  | -1.58      | 25.81      | -6.70      |
| 2099   | -2          | 20          | 10         | -2.21   | -2.09   | -11.39  | -1.18      | 27.94      | -3.35      |
| 2102   | -2          | 20          | 15         | -2.20   | -0.06   | -12.13  | -0.42      | 30.90      | 1.93       |
| 1830   | 0           | -10         | 0          | -1.25   | 1.91    | -11.33  | 1.17       | 22.43      | 3.59       |
| 1834   | 0           | -10         | 5          | -1.40   | 2.70    | -11.19  | 1.30       | 21.88      | 5.80       |
| 1840   | 0           | -10         | 10         | -1.73   | 4.25    | -10.92  | 1.41       | 21.77      | 10.12      |
| 1844   | 0           | -10         | 15         | -2.17   | 7.20    | -10.40  | 1.42       | 21.73      | 17.90      |
| 1761   | 0           | 0           | 0          | -1.25   | -0.02   | -11.49  | 0.06       | 22.90      | -0.05      |
| 1765   | 0           | 0           | 5          | -1.31   | 0.43    | -11.49  | 0.16       | 22.97      | 1.30       |
| 1769   | 0           | 0           | 10         | -1.51   | 1.25    | -11.49  | 0.24       | 23.28      | 3.61       |
| 1774   | 0           | 0           | 15         | -1.95   | 3.26    | -11.49  | 0.58       | 24.19      | 9.03       |
| 1780   | 0           | 10          | 0          | -1.30   | -1.96   | -11.32  | -1.10      | 22.34      | -3.67      |
| 1784   | 0           | 10          | 5          | -1.33   | -1.42   | -11.42  | -0.97      | 23.09      | -2.27      |
| 1788   | 0           | 10          | 10         | -1.43   | -0.69   | -11.55  | -0.73      | 23.92      | -0.45      |
| 1789   | 0           | 10          | 10         | -1.43   | -0.72   | -11.54  | -0.73      | 23.81      | -0.54      |
| 1793   | 0           | 10          | 15         | -1.67   | 0.51    | -11.76  | -0.26      | 25.55      | 2.18       |
| 1810   | 0           | 21          | 0          | -1.10   | -4.16   | -10.71  | -2.11      | 20.18      | -7.72      |
| 1815   | 0           | 21          | 5          | -1.19   | -3.43   | -10.99  | -1.98      | 21.64      | -5.97      |
| 1820   | 0           | 21          | 10         | -1.25   | -2.28   | -11.43  | -1.55      | 23.38      | -3.55      |
| 1824   | 0           | 21          | 15         | -1.44   | -0.99   | -11.93  | -1.07      | 26.06      | -1.34      |
| 1919   | 3           | -11         | 0          | -0.55   | 2.14    | -11.33  | 1.28       | 16.77      | 2.98       |
| 1923   | 3           | -11         | 5          | -0.67   | 3.00    | -11.17  | 1.55       | 16.43      | 4.43       |
| 1927   | 3           | -11         | 10         | -0.81   | 4.27    | -10.93  | 1.67       | 16.42      | 6.67       |
| 1931   | 3           | -11         | 15         | -1.05   | 6.87    | -10.44  | 1.83       | 16.61      | 11.65      |
| 1851   | 3           | 0           | 0          | -0.48   | 0.04    | -11.53  | 0.07       | 16.75      | 0.12       |
| 1855   | 3           | 0           | 0          | -0.55   | 0.04    | -11.53  | 0.03       | 16.74      | 0.12       |
| 1857   | 3           | 0           | 5          | -0.60   | 0.65    | -11.54  | 0.26       | 16.94      | 0.99       |
| 1861   | 3           | 0           | 10         | -0.70   | 1.52    | -11.54  | 0.53       | 17.61      | 2.25       |
| 1865   | 3           | 0           | 15         | -0.84   | 2.80    | -11.55  | 0.84       | 18.87      | 4.26       |

\* Indicates model was close to heave stop

TABLE 7.101.2 - STABILITY DATA IN BODY AXES AT TRANSOM

10 deg Deadrise, L/R = 0.000, Cv = 1.5

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 1881 | 3           | 10          | 0          | -0.60   | -1.93   | -11.37  | -1.17      | 16.65      | -2.56      |
| 1885 | 3           | 10          | 5          | -0.56   | -1.19   | -11.50  | -0.96      | 17.15      | -1.49      |
| 1889 | 3           | 10          | 10         | -0.58   | -0.25   | -11.67  | -0.44      | 17.89      | -0.25      |
| 1895 | 3           | 10          | 15         | -0.69   | 0.70    | -11.84  | 0.02       | 19.60      | 0.67       |
| 1901 | 3           | 21          | 0          | -0.68   | -4.08   | -10.80  | -2.20      | 15.88      | -5.55      |
| 1905 | 3           | 21          | 5          | -0.72   | -2.97   | -11.22  | -1.93      | 16.94      | -4.00      |
| 1909 | 3           | 21          | 10         | -0.73   | -1.72   | -11.71  | -1.52      | 18.06      | -2.36      |
| 1913 | 3           | 21          | 15         | -0.69   | -0.71   | -12.09  | -0.90      | 19.72      | -1.41      |
| 2023 | 6           | -10         | 0          | -0.43   | 1.79    | -11.46  | 1.04       | 13.17      | 1.89       |
| 2027 | 6           | -10         | 5          | -0.45   | 2.82    | -11.28  | 1.51       | 12.92      | 2.87       |
| 2031 | 6           | -10         | 10         | -0.51   | 4.17    | -11.05  | 2.01       | 12.93      | 4.38       |
| 2035 | 6           | -10         | 15         | -0.55   | 6.32    | -10.68  | 2.70       | 13.10      | 6.91       |
| 1964 | 6           | 0           | 0          | -0.27   | 0.00    | -11.58  | 0.05       | 13.24      | 0.10       |
| 1969 | 6           | 0           | 5          | -0.27   | 0.95    | -11.58  | 0.64       | 13.35      | 0.86       |
| 1973 | 6           | 0           | 10         | -0.35   | 1.98    | -11.59  | 1.37       | 13.76      | 1.77       |
| 1977 | 6           | 0           | 15         | -0.40   | 3.22    | -11.60  | 1.80       | 14.38      | 2.89       |
| 1983 | 6           | 10          | 0          | -0.42   | -1.69   | -11.48  | -0.49      | 13.28      | -1.53      |
| 1987 | 6           | 10          | 5          | -0.37   | -0.64   | -11.66  | 0.02       | 13.55      | -0.57      |
| 1991 | 6           | 10          | 10         | -0.30   | 0.42    | -11.84  | 0.65       | 14.34      | 0.08       |
| 1996 | 6           | 10          | 15         | -0.29   | 1.15    | -11.96  | 0.75       | 14.88      | 0.61       |
| 2003 | 6           | 20          | 0          | -0.44   | -3.50   | -11.07  | -1.39      | 12.85      | -3.42      |
| 2008 | 6           | 20          | 5          | -0.51   | -2.18   | -11.56  | -0.72      | 13.72      | -2.10      |
| 2012 | 6           | 20          | 10         | -0.47   | -0.80   | -12.06  | -0.16      | 14.71      | -1.09      |
| 2016 | 6           | 20          | 15         | -0.45   | -0.22   | -12.26  | 0.07       | 15.47      | -0.75      |

\* Indicates model was close to heave stop

TABLE 7.103.1 - STABILITY DATA IN BODY AXES AT TRANSOM

10 deg Deadrise, L/R = 0.000, Cv = 3

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|--------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 2114   | -2          | -10         | 0          | -7.22   | 3.89    | -10.73  | 1.62       | 23.35      | 9.54       |
| 2118   | -2          | -10         | 5          | -8.29   | 10.85   | -9.47   | 3.24       | 19.21      | 31.38      |
| 2064   | -2          | 0           | 0          | -6.94   | 0.16    | -11.25  | 0.14       | 23.87      | 0.49       |
| 2067   | -2          | 0           | 5          | -7.81   | 6.55    | -11.22  | 2.06       | 24.01      | 20.30      |
| 2076   | -2          | 10          | 0          | -6.74   | -3.44   | -10.83  | -1.48      | 23.56      | -8.30      |
| 2080   | -2          | 10          | 5          | -7.46   | 1.31    | -11.64  | -0.54      | 27.85      | 6.72       |
| 2092   | -2          | 20          | 0          | -6.01   | -4.79   | -10.27  | -1.94      | 23.54      | -9.98      |
| 2096   | -2          | 20          | 5          | -5.72   | -0.59   | -11.81  | -0.44      | 30.83      | 2.35       |
| 2100   | -2          | 20          | 10         | -6.38   | 4.65    | -13.69  | 1.06       | 40.70      | 15.88      |
| 2103   | -2          | 20          | 15         | -5.33   | 2.49    | -12.94  | 2.27       | 46.31      | 6.36       |
| 1831   | 0           | -10         | 0          | -3.73   | 1.91    | -11.33  | 1.14       | 26.70      | 2.59       |
| 1835   | 0           | -10         | 5          | -4.99   | 5.79    | -10.65  | 1.91       | 26.36      | 11.84      |
| 1841   | 0           | -10         | 10         | -6.85   | 15.48   | -8.94   | 3.48       | 24.79      | 34.87      |
| 1845   | 0           | -10         | 15         | -7.02   | 26.27   | -7.03   | 4.63       | 22.81      | 58.22      |
| 1762   | 0           | 0           | 0          | -3.55   | 0.01    | -11.49  | 0.10       | 27.53      | -0.11      |
| 1766   | 0           | 0           | 5          | -4.56   | 2.54    | -11.49  | 0.96       | 29.29      | 4.00       |
| 1770 * | 0           | 0           | 10         | -7.39   | 11.89   | -11.49  | 2.99       | 33.38      | 24.18      |
| 1775 * | 0           | 0           | 15         | -7.80   | 19.75   | -11.49  | 4.20       | 37.14      | 41.26      |
| 1781   | 0           | 10          | 0          | -3.64   | -1.90   | -11.33  | -1.02      | 26.68      | -3.07      |
| 1785   | 0           | 10          | 5          | -3.85   | 0.25    | -11.71  | 0.04       | 31.14      | 0.52       |
| 1790   | 0           | 10          | 10         | -3.96   | 2.00    | -12.02  | 0.98       | 34.65      | 3.56       |
| 1794   | 0           | 10          | 15         | -3.73   | 3.41    | -12.27  | 2.08       | 35.61      | 6.15       |
| 1811   | 0           | 21          | 0          | -3.58   | -4.09   | -10.74  | -1.93      | 22.58      | -7.23      |
| 1816   | 0           | 21          | 5          | -3.60   | -1.12   | -11.88  | -1.01      | 29.25      | -2.23      |
| 1821   | 0           | 21          | 10         | -2.78   | -0.47   | -12.13  | -0.41      | 31.16      | -1.89      |
| 1825   | 0           | 21          | 15         | -2.19   | -0.61   | -12.07  | -0.88      | 25.24      | -2.41      |
| 1920   | 3           | -11         | 0          | -1.72   | 1.48    | -11.53  | 1.15       | 19.63      | 2.19       |
| 1924   | 3           | -11         | 5          | -2.23   | 4.53    | -10.96  | 2.12       | 19.11      | 6.23       |
| 1928   | 3           | -11         | 10         | -3.30   | 10.77   | -9.80   | 3.50       | 19.78      | 16.08      |
| 1933   | 3           | -11         | 15         | -5.31   | 28.55   | -6.46   | 6.97       | 20.41      | 51.81      |
| 1852   | 3           | 0           | 0          | -1.25   | -0.01   | -11.57  | -0.00      | 19.65      | 0.10       |
| 1858   | 3           | 0           | 5          | -1.56   | 1.25    | -11.59  | 0.75       | 19.64      | 1.46       |
| 1862   | 3           | 0           | 10         | -1.85   | 3.35    | -11.60  | 1.62       | 20.46      | 3.75       |
| 1866   | 3           | 0           | 15         | -2.44   | 7.34    | -11.63  | 2.98       | 22.93      | 8.34       |

\* Indicates model was close to heave stop

TABLE 7.103.2 - STABILITY DATA IN BODY AXES AT TRANSOM

10 deg Deadrise, L/R = 0.000, Cv = 3

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 1882 | 3           | 10          | 0          | -1.65   | -1.40   | -11.52  | -1.11      | 19.29      | -1.78      |
| 1886 | 3           | 10          | 5          | -1.32   | -0.20   | -11.72  | -0.39      | 19.14      | -0.56      |
| 1890 | 3           | 10          | 10         | -1.03   | 0.39    | -11.81  | 0.21       | 16.08      | 0.22       |
| 1891 | 3           | 10          | 10         | -1.02   | 0.35    | -11.80  | 0.18       | 16.03      | 0.12       |
| 1896 | 3           | 10          | 15         | -0.76   | 0.82    | -11.87  | 0.52       | 12.15      | 0.47       |
| 1902 | 3           | 21          | 0          | -2.16   | -3.61   | -11.06  | -2.17      | 18.81      | -4.78      |
| 1906 | 3           | 21          | 5          | -1.57   | -0.86   | -12.08  | -1.21      | 19.75      | -1.78      |
| 1910 | 3           | 21          | 10         | -0.92   | -0.75   | -12.09  | -1.03      | 15.66      | -1.58      |
| 1914 | 3           | 21          | 15         | -0.54   | -0.85   | -12.03  | -1.24      | 11.93      | -1.26      |
| 2024 | 6           | -10         | 0          | -0.81   | 0.65    | -11.70  | 0.47       | 11.93      | 1.07       |
| 2028 | 6           | -10         | 5          | -1.20   | 2.25    | -11.46  | 1.40       | 13.16      | 2.16       |
| 2032 | 6           | -10         | 10         | -1.48   | 5.62    | -10.90  | 2.78       | 13.95      | 4.99       |
| 2036 | 6           | -10         | 15         | -1.84   | 12.45   | -9.73   | 5.08       | 15.15      | 11.83      |
| 1965 | 6           | 0           | 0          | -0.44   | 0.04    | -11.60  | 0.02       | 10.36      | 0.22       |
| 1970 | 6           | 0           | 5          | -0.31   | 0.43    | -11.59  | 0.45       | 10.27      | 0.53       |
| 1974 | 6           | 0           | 10         | -0.48   | 1.02    | -11.60  | 1.10       | 10.67      | 0.89       |
| 1978 | 6           | 0           | 15         | -0.71   | 2.20    | -11.63  | 1.84       | 10.80      | 1.48       |
| 1984 | 6           | 10          | 0          | -0.77   | -0.48   | -11.73  | -0.04      | 11.43      | -0.49      |
| 1988 | 6           | 10          | 5          | -0.49   | -0.15   | -11.76  | 0.35       | 9.28       | -0.19      |
| 1992 | 6           | 10          | 10         | -0.31   | 0.13    | -11.79  | 0.54       | 7.55       | 0.05       |
| 1997 | 6           | 10          | 15         | -0.16   | 0.27    | -11.80  | 0.55       | 6.70       | 0.13       |
| 2004 | 6           | 20          | 0          | -1.00   | -1.79   | -11.76  | -1.13      | 13.31      | -1.73      |
| 2009 | 6           | 20          | 5          | -0.72   | 0.28    | -12.48  | -0.33      | 11.73      | -0.23      |
| 2013 | 6           | 20          | 10         | -0.36   | -0.90   | -12.01  | -0.69      | 8.76       | -0.91      |
| 2017 | 6           | 20          | 15         | -0.30   | -1.02   | -11.96  | -0.75      | 7.35       | -0.78      |

\* Indicates model was close to heave stop



TABLE 7.104.1 - STABILITY DATA IN BODY AXES AT TRANSOM

10 deg Deadrise, L/R = 0.000, Cv = 4

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|--------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 2115   | -2          | -10         | 0          | -13.25  | 6.40    | -10.08  | 3.32       | 19.18      | 16.02      |
| 2077   | -2          | 10          | 0          | -13.19  | -5.56   | -10.23  | -2.44      | 19.39      | -13.70     |
| 2093 * | -2          | 20          | 0          | -13.60  | -9.96   | -8.10   | -4.16      | 17.91      | -28.37     |
| 2097 * | -2          | 20          | 5          | -13.54  | 0.55    | -11.93  | -0.42      | 34.88      | 4.94       |
| 2105   | -2          | 20          | 10         | -11.27  | 4.08    | -13.30  | 3.14       | 58.16      | 10.56      |
| 2107   | -2          | 20          | 10         | -13.46  | 15.74   | -17.46  | 5.66       | 53.42      | 46.37      |
| 2109   | -2          | 20          | 12         | -6.82   | 2.07    | -12.74  | 1.86       | 49.45      | 4.03       |
| 2104   | -2          | 20          | 15         | -4.62   | 0.91    | -12.39  | 0.93       | 40.42      | 0.41       |
| 1832   | 0           | -10         | 0          | -6.88   | 1.34    | -11.43  | 0.78       | 33.92      | 0.46       |
| 1836   | 0           | -10         | 5          | -10.59  | 10.26   | -9.86   | 2.98       | 32.94      | 24.02      |
| 1842   | 0           | -10         | 10         | -11.42  | 24.57   | -7.33   | 5.03       | 29.47      | 57.12      |
| 1846   | 0           | -10         | 15         | -11.51  | 44.96   | -3.74   | 7.47       | 24.36      | 100.14     |
| 1763   | 0           | 0           | 0          | -6.51   | -0.07   | -11.49  | 0.13       | 36.15      | -0.41      |
| 1767   | 0           | 0           | 5          | -8.75   | 3.31    | -11.49  | 1.41       | 39.71      | 5.47       |
| 1772 * | 0           | 0           | 10         | -12.30  | 17.25   | -11.49  | 4.27       | 44.45      | 37.36      |
| 1776 * | 0           | 0           | 15         | -13.34  | 33.24   | -11.49  | 7.4J       | 49.71      | 69.75      |
| 1782   | 0           | 10          | 0          | -6.76   | -1.28   | -11.44  | -0.50      | 34.58      | -2.09      |
| 1786   | 0           | 10          | 5          | -5.66   | 0.61    | -11.77  | 0.58       | 38.97      | 0.87       |
| 1791   | 0           | 10          | 10         | -4.40   | 1.51    | -11.93  | 1.32       | 35.37      | 2.66       |
| 1795   | 0           | 10          | 15         | -3.19   | 2.39    | -12.09  | 1.59       | 28.67      | 3.66       |
| 1812   | 0           | 21          | 0          | -6.61   | -3.71   | -10.88  | -1.65      | 28.30      | -6.86      |
| 1818   | 0           | 21          | 5          | -5.24   | -0.85   | -11.98  | -0.60      | 36.80      | -3.13      |
| 1822   | 0           | 21          | 10         | -3.64   | -0.86   | -11.98  | -0.95      | 28.72      | -3.31      |
| 1826   | 0           | 21          | 15         | -1.89   | -1.83   | -11.61  | -2.06      | 19.70      | -3.25      |
| 1921   | 3           | -11         | 0          | -2.27   | 0.96    | -11.66  | 0.92       | 20.12      | 1.99       |
| 1925   | 3           | -11         | 5          | -3.54   | 4.88    | -10.96  | 2.39       | 21.75      | 6.69       |
| 1929   | 3           | -11         | 10         | -5.37   | 15.59   | -8.98   | 4.99       | 23.58      | 23.55      |
| 1934   | 3           | -11         | 15         | -8.45   | 47.64   | -2.91   | 11.46      | 24.36      | 87.27      |
| 1853   | 3           | 0           | 0          | -1.80   | 0.06    | -11.60  | -0.01      | 17.98      | 0.25       |
| 1859   | 3           | 0           | 5          | -2.00   | 0.87    | -11.61  | 0.72       | 18.18      | 1.26       |
| 1863   | 3           | 0           | 10         | -2.28   | 2.81    | -11.63  | 1.77       | 18.26      | 2.88       |
| 1867   | 3           | 0           | 15         | -2.75   | 6.42    | -11.65  | 3.32       | 20.48      | 6.07       |

\* Indicates model was close to heave stop

TABLE 7.104.2 - STABILITY DATA IN BODY AXES AT TRANSOM

10 deg Deadrise, L/R = 0.000, Cv = 4

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 1883 | 3           | 10          | 0          | -2.18   | -0.79   | -11.66  | -0.98      | 19.51      | -1.43      |
| 1887 | 3           | 10          | 5          | -1.51   | -0.02   | -11.76  | -0.32      | 14.04      | -0.32      |
| 1893 | 3           | 10          | 10         | -0.94   | 0.32    | -11.79  | -0.17      | 10.67      | 0.08       |
| 1897 | 3           | 10          | 15         | -0.72   | 0.45    | -11.80  | -0.20      | 9.01       | 0.19       |
| 1903 | 3           | 21          | 0          | -3.23   | -2.96   | -11.37  | -2.11      | 20.94      | -3.84      |
| 1907 | 3           | 21          | 5          | -1.66   | -1.08   | -12.00  | -1.42      | 16.65      | -1.83      |
| 1911 | 3           | 21          | 10         | -0.89   | -1.19   | -11.92  | -1.61      | 11.35      | -1.24      |
| 1915 | 3           | 21          | 15         | -0.65   | -1.61   | -11.74  | -1.93      | 8.47       | -1.01      |
| 2025 | 6           | -10         | 0          | -0.62   | 1.14    | -11.60  | 0.86       | 7.90       | 1.30       |
| 2029 | 6           | -10         | 5          | -1.21   | 1.81    | -11.54  | 1.28       | 10.04      | 1.78       |
| 2033 | 6           | -10         | 10         | -1.80   | 5.17    | -11.01  | 2.92       | 12.20      | 3.92       |
| 2037 | 6           | -10         | 15         | -2.41   | 13.44   | -9.62   | 5.88       | 14.79      | 10.51      |
| 1966 | 6           | 0           | 0          | -0.24   | 0.19    | -11.58  | 0.10       | 4.98       | 0.33       |
| 1971 | 6           | 0           | 5          | -0.25   | 0.61    | -11.58  | 0.55       | 5.26       | 0.53       |
| 1975 | 6           | 0           | 10         | -0.28   | 1.06    | -11.58  | 1.08       | 5.30       | 0.73       |
| 1979 | 6           | 0           | 15         | -0.43   | 1.55    | -11.60  | 1.74       | 5.53       | 0.97       |
| 1985 | 6           | 10          | 0          | -0.68   | -0.84   | -11.66  | -0.47      | 7.37       | -0.44      |
| 1989 | 6           | 10          | 5          | -0.41   | -0.58   | -11.67  | -0.22      | 6.24       | -0.17      |
| 1994 | 6           | 10          | 10         | -0.27   | -0.38   | -11.69  | -0.37      | 5.43       | 0.03       |
| 1998 | 6           | 10          | 15         | -0.17   | -0.23   | -11.71  | -0.21      | 5.06       | 0.12       |
| 2005 | 6           | 20          | 0          | -1.25   | -1.18   | -12.01  | -1.07      | 11.29      | -1.19      |
| 2010 | 6           | 20          | 5          | -0.70   | -0.24   | -12.29  | -0.63      | 8.79       | -0.43      |
| 2014 | 6           | 20          | 10         | -0.33   | -1.54   | -11.77  | -1.56      | 5.93       | -0.57      |
| 2018 | 6           | 20          | 15         | -0.21   | -1.80   | -11.66  | -1.33      | 5.31       | -0.57      |

\* Indicates model was close to heave stop

TABLE 7.110.1 - STABILITY DATA IN BODY AXES AT TRANSOM

10 deg Deadrise, L/R = 0.117, Cv = 0

| RUN | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|-----|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 753 | 0           | -10         | -15        | -0.01   | 2.30    | -11.26  | 1.49       | 17.80      | 3.80       |
| 749 | 0           | -10         | -10        | -0.03   | 2.12    | -11.29  | 1.30       | 17.88      | 3.40       |
| 745 | 0           | -10         | -5         | -0.03   | 2.04    | -11.31  | 1.22       | 17.89      | 3.24       |
| 732 | 0           | -10         | 0          | -0.03   | 2.12    | -11.29  | 1.33       | 17.90      | 3.42       |
| 736 | 0           | -10         | 5          | 0.00    | 2.08    | -11.30  | 1.26       | 17.85      | 3.32       |
| 740 | 0           | -10         | 10         | 0.00    | 2.01    | -11.31  | 1.14       | 17.77      | 3.22       |
| 664 | 0           | 0           | -10        | -0.05   | 0.08    | -11.49  | -0.10      | 17.94      | 0.14       |
| 660 | 0           | 0           | -5         | -0.03   | 0.05    | -11.49  | -0.08      | 17.97      | 0.11       |
| 643 | 0           | 0           | 0          | -0.06   | 0.03    | -11.49  | -0.10      | 18.00      | 0.06       |
| 645 | 0           | 0           | 0          | -0.09   | 0.05    | -11.49  | -0.06      | 18.19      | 0.08       |
| 647 | 0           | 0           | 0          | -0.08   | 0.03    | -11.49  | -0.07      | 18.20      | 0.06       |
| 648 | 0           | 0           | 0          | -0.06   | 0.05    | -11.49  | -0.04      | 18.10      | 0.10       |
| 653 | 0           | 0           | 5          | -0.03   | 0.06    | -11.49  | -0.03      | 17.96      | 0.12       |
| 656 | 0           | 0           | 10         | -0.02   | 0.05    | -11.49  | -0.05      | 17.87      | 0.11       |
| 668 | 0           | 10          | -10        | -0.04   | -1.89   | -11.33  | -1.33      | 17.85      | -2.95      |
| 689 | 0           | 10          | -10        | -0.05   | -2.00   | -11.32  | -1.53      | 17.85      | -3.12      |
| 685 | 0           | 10          | -5         | -0.03   | -1.95   | -11.32  | -1.43      | 17.84      | -3.07      |
| 672 | 0           | 10          | 5          | -0.01   | -1.94   | -11.33  | -1.42      | 17.74      | -3.03      |
| 676 | 0           | 10          | 10         | -0.00   | -1.93   | -11.33  | -1.39      | 17.66      | -2.99      |
| 681 | 0           | 10          | 15         | 0.00    | -1.93   | -11.33  | -1.40      | 17.60      | -2.98      |
| 728 | 0           | 20          | -10        | -0.05   | -4.00   | -10.77  | -2.42      | 17.01      | -6.23      |
| 724 | 0           | 20          | -5         | -0.04   | -3.85   | -10.82  | -2.24      | 17.15      | -6.10      |
| 706 | 0           | 20          | 0          | -0.03   | -3.84   | -10.83  | -2.18      | 17.06      | -6.03      |
| 707 | 0           | 20          | 0          | -0.03   | -3.84   | -10.83  | -2.19      | 17.07      | -6.03      |
| 711 | 0           | 20          | 5          | -0.04   | -3.89   | -10.81  | -2.25      | 17.03      | -6.10      |
| 715 | 0           | 20          | 10         | -0.02   | -3.85   | -10.83  | -2.20      | 16.97      | -5.98      |
| 720 | 0           | 20          | 15         | -0.00   | -3.84   | -10.83  | -2.21      | 16.95      | -5.98      |
| 883 | 3           | -10         | -15        | 0.59    | 1.99    | -11.30  | 1.05       | 12.43      | 2.19       |
| 887 | 3           | -10         | -10        | 0.63    | 2.04    | -11.29  | 1.09       | 12.22      | 2.28       |
| 891 | 3           | -10         | -5         | 0.60    | 2.02    | -11.29  | 1.07       | 12.17      | 2.23       |
| 895 | 3           | -10         | 0          | 0.58    | 1.99    | -11.30  | 1.01       | 12.26      | 2.18       |
| 899 | 3           | -10         | 5          | 0.61    | 2.06    | -11.29  | 1.10       | 12.15      | 2.30       |
| 903 | 3           | -10         | 10         | 0.59    | 2.01    | -11.30  | 1.03       | 12.17      | 2.21       |
| 907 | 3           | -10         | 15         | 0.61    | 2.02    | -11.29  | 1.03       | 11.99      | 2.21       |
| 802 | 3           | 0           | -15        | 0.59    | 0.03    | -11.47  | -0.11      | 12.12      | -0.03      |
| 798 | 3           | 0           | -10        | 0.59    | 0.05    | -11.47  | -0.09      | 11.84      | 0.02       |
| 794 | 3           | 0           | -5         | 0.58    | 0.01    | -11.48  | -0.11      | 12.04      | -0.05      |
| 759 | 3           | 0           | 0          | 0.61    | 0.08    | -11.47  | -0.07      | 12.04      | 0.11       |
| 763 | 3           | 0           | 5          | 0.62    | 0.10    | -11.47  | -0.05      | 11.95      | 0.13       |
| 767 | 3           | 0           | 10         | 0.62    | 0.02    | -11.47  | -0.06      | 11.84      | -0.03      |
| 790 | 3           | 0           | 10         | 0.60    | 0.04    | -11.47  | -0.09      | 11.91      | 0.03       |
| 771 | 3           | 0           | 15         | 0.64    | 0.04    | -11.47  | -0.11      | 11.66      | 0.02       |
| 786 | 3           | 0           | 15         | 0.61    | 0.05    | -11.47  | -0.10      | 11.96      | 0.05       |

\* Indicates model was close to heave stop

TABLE 7.110.2 - STABILITY DATA IN BODY AXES AT TRANSOM

10 deg Deadrise, L/R = 0.117, Cv = 0

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 836  | 3           | 10          | -15        | 0.58    | -2.00   | -11.30  | -1.29      | 12.09      | -2.27      |
| 832  | 3           | 10          | -10        | 0.60    | -1.94   | -11.31  | -1.24      | 12.13      | -2.17      |
| 828  | 3           | 10          | -5         | 0.61    | -1.99   | -11.30  | -1.29      | 12.09      | -2.26      |
| 811  | 3           | 10          | 0          | 0.61    | -1.92   | -11.31  | -1.22      | 11.90      | -2.08      |
| 816  | 3           | 10          | 5          | 0.62    | -1.95   | -11.31  | -1.26      | 11.93      | -2.14      |
| 820  | 3           | 10          | 10         | 0.63    | -1.96   | -11.30  | -1.24      | 11.90      | -2.13      |
| 824  | 3           | 10          | 15         | 0.62    | -1.96   | -11.30  | -1.25      | 11.89      | -2.15      |
| 875  | 3           | 20          | -15        | 0.59    | -3.89   | -10.80  | -2.16      | 12.06      | -4.48      |
| 870  | 3           | 20          | -10        | 0.60    | -3.88   | -10.80  | -2.06      | 12.08      | -4.47      |
| 853  | 3           | 20          | -5         | 0.61    | -3.96   | -10.77  | -2.26      | 11.92      | -4.65      |
| 867  | 3           | 20          | -5         | 0.60    | -3.81   | -10.82  | -2.09      | 12.09      | -4.33      |
| 841  | 3           | 20          | 0          | 0.56    | -4.00   | -10.76  | -2.22      | 11.95      | -4.73      |
| 845  | 3           | 20          | 5          | 0.60    | -4.01   | -10.75  | -2.30      | 11.85      | -4.69      |
| 849  | 3           | 20          | 10         | 0.62    | -3.99   | -10.76  | -2.28      | 11.83      | -4.66      |
| 878  | 3           | 20          | 15         | 0.64    | -3.92   | -10.78  | -2.22      | 11.68      | -4.39      |
| 1053 | 6           | -10         | -15        | 1.22    | 2.01    | -11.25  | 0.92       | 8.06       | 1.50       |
| 1049 | 6           | -10         | -10        | 1.23    | 2.06    | -11.24  | 0.96       | 7.94       | 1.57       |
| 1044 | 6           | -10         | -5         | 1.21    | 2.09    | -11.23  | 0.97       | 8.08       | 1.62       |
| 1011 | 6           | -10         | 0          | 1.22    | 2.00    | -11.25  | 0.86       | 8.75       | 1.62       |
| 1033 | 6           | -10         | 0          | 1.21    | 2.01    | -11.25  | 0.90       | 8.55       | 1.60       |
| 1040 | 6           | -10         | 5          | 1.24    | 2.03    | -11.24  | 0.92       | 8.16       | 1.58       |
| 1015 | 6           | -10         | 10         | 1.24    | 2.01    | -11.24  | 0.86       | 8.42       | 1.58       |
| 1019 | 6           | -10         | 15         | 1.22    | 1.95    | -11.26  | 0.79       | 8.31       | 1.44       |
| 1035 | 6           | -10         | 15         | 1.24    | 2.05    | -11.24  | 0.92       | 8.37       | 1.65       |
| 937  | 6           | 0           | -15        | 1.21    | -0.01   | -11.43  | -0.13      | 8.57       | -0.12      |
| 933  | 6           | 0           | -10        | 1.21    | 0.00    | -11.43  | -0.12      | 8.54       | -0.11      |
| 929  | 6           | 0           | -5         | 1.21    | -0.03   | -11.43  | -0.16      | 8.49       | -0.21      |
| 912  | 6           | 0           | 0          | 1.17    | -0.05   | -11.43  | -0.20      | 8.63       | -0.18      |
| 917  | 6           | 0           | 5          | 1.22    | -0.04   | -11.42  | -0.19      | 8.35       | -0.15      |
| 921  | 6           | 0           | 10         | 1.22    | -0.02   | -11.42  | -0.16      | 8.56       | -0.13      |
| 925  | 6           | 0           | 15         | 1.25    | 0.06    | -11.42  | -0.13      | 8.40       | 0.03       |
| 978  | 6           | 10          | -15        | 1.21    | -1.98   | -11.25  | -1.11      | 8.38       | -1.69      |
| 974  | 6           | 10          | -10        | 1.21    | -1.94   | -11.26  | -1.09      | 8.37       | -1.65      |
| 970  | 6           | 10          | -5         | 1.23    | -1.90   | -11.26  | -1.03      | 8.55       | -1.55      |
| 954  | 6           | 10          | 0          | 1.23    | -1.92   | -11.26  | -1.03      | 8.33       | -1.55      |
| 958  | 6           | 10          | 5          | 1.20    | -1.99   | -11.25  | -1.16      | 8.30       | -1.69      |
| 962  | 6           | 10          | 10         | 1.22    | -2.00   | -11.25  | -1.15      | 8.46       | -1.72      |
| 966  | 6           | 10          | 15         | 1.25    | -1.96   | -11.25  | -1.16      | 8.29       | -1.61      |
| 1002 | 6           | 20          | -15        | 1.21    | -3.89   | -10.74  | -1.99      | 8.42       | -3.31      |
| 998  | 6           | 20          | -10        | 1.22    | -3.87   | -10.75  | -1.98      | 8.47       | -3.32      |
| 994  | 6           | 20          | -5         | 1.22    | -3.89   | -10.74  | -2.00      | 8.65       | -3.41      |
| 982  | 6           | 20          | 0          | 1.22    | -3.91   | -10.74  | -1.99      | 8.61       | -3.41      |
| 986  | 6           | 20          | 5          | 1.22    | -3.88   | -10.75  | -1.98      | 8.61       | -3.36      |
| 990  | 6           | 20          | 10         | 1.23    | -3.88   | -10.75  | -2.02      | 8.54       | -3.33      |
| 1006 | 6           | 20          | 15         | 1.23    | -3.94   | -10.72  | -2.07      | 8.28       | -3.37      |

\* Indicates model was close to heave stop

TABLE 7.111.1 - STABILITY DATA IN BODY AXES AT TRANSOM

10 deg Deadrise, L/R = 0.117, Cv = 1.5

| RUN | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|-----|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 754 | 0           | -10         | -15        | -1.91   | -0.06   | -11.68  | 1.01       | 25.78      | -1.92      |
| 750 | 0           | -10         | -10        | -1.61   | 0.75    | -11.53  | 0.92       | 24.34      | -0.01      |
| 746 | 0           | -10         | -5         | -1.46   | 1.48    | -11.41  | 1.06       | 23.53      | 1.94       |
| 733 | 0           | -10         | 0          | -1.40   | 2.08    | -11.30  | 1.18       | 22.97      | 3.65       |
| 737 | 0           | -10         | 5          | -1.47   | 2.79    | -11.18  | 1.19       | 22.57      | 5.58       |
| 741 | 0           | -10         | 10         | -1.85   | 4.28    | -10.91  | 0.73       | 22.83      | 9.75       |
| 665 | 0           | 0           | -10        | -1.82   | -1.26   | -11.49  | -0.06      | 23.65      | -4.19      |
| 661 | 0           | 0           | -5         | -1.52   | -0.50   | -11.49  | 0.03       | 23.29      | -1.74      |
| 649 | 0           | 0           | 0          | -1.37   | 0.14    | -11.49  | 0.07       | 23.33      | 0.05       |
| 652 | 0           | 0           | 5          | -1.37   | 0.54    | -11.49  | 0.12       | 23.36      | 1.27       |
| 657 | 0           | 0           | 10         | -1.56   | 1.16    | -11.49  | 0.01       | 23.74      | 3.06       |
| 690 | 0           | 10          | -10        | -1.93   | -4.23   | -10.92  | -1.12      | 21.20      | -10.72     |
| 686 | 0           | 10          | -5         | -1.55   | -2.63   | -11.20  | -1.31      | 21.75      | -6.12      |
| 669 | 0           | 10          | 0          | -1.45   | -1.88   | -11.34  | -1.17      | 22.43      | -3.95      |
| 673 | 0           | 10          | 5          | -1.41   | -1.34   | -11.43  | -1.12      | 23.31      | -2.55      |
| 677 | 0           | 10          | 10         | -1.49   | -0.69   | -11.55  | -0.93      | 24.14      | -0.76      |
| 682 | 0           | 10          | 15         | -1.71   | 0.35    | -11.73  | -0.67      | 25.44      | 1.70       |
| 729 | 0           | 20          | -10        | -1.85   | -7.26   | -9.58   | -2.33      | 17.35      | -16.74     |
| 725 | 0           | 20          | -5         | -1.45   | -4.80   | -10.48  | -2.14      | 19.36      | -10.47     |
| 708 | 0           | 20          | 0          | -1.29   | -3.91   | -10.80  | -2.14      | 20.55      | -8.00      |
| 712 | 0           | 20          | 5          | -1.32   | -3.18   | -11.07  | -2.04      | 21.84      | -6.09      |
| 716 | 0           | 20          | 10         | -1.31   | -2.11   | -11.46  | -1.73      | 23.44      | -3.74      |
| 721 | 0           | 20          | 15         | -1.38   | -0.92   | -11.89  | -1.29      | 24.78      | -1.31      |
| 884 | 3           | -10         | -15        | -0.73   | -0.54   | -11.82  | -0.08      | 20.34      | -0.90      |
| 888 | 3           | -10         | -10        | -0.59   | 0.53    | -11.62  | 0.47       | 18.46      | 0.46       |
| 892 | 3           | -10         | -5         | -0.62   | 1.45    | -11.46  | 0.87       | 17.58      | 1.66       |
| 896 | 3           | -10         | 0          | -0.64   | 2.21    | -11.33  | 1.14       | 17.15      | 2.85       |
| 900 | 3           | -10         | 5          | -0.70   | 3.11    | -11.17  | 1.43       | 16.96      | 4.31       |
| 904 | 3           | -10         | 10         | -0.87   | 4.57    | -10.92  | 1.53       | 17.29      | 6.68       |
| 908 | 3           | -10         | 15         | -1.19   | 7.45    | -10.43  | 1.61       | 18.04      | 11.80      |
| 803 | 3           | 0           | -15        | -0.86   | -2.27   | -11.55  | -0.95      | 19.12      | -3.97      |
| 799 | 3           | 0           | -10        | -0.76   | -1.22   | -11.55  | -0.58      | 17.83      | -2.15      |
| 795 | 3           | 0           | -5         | -0.65   | -0.38   | -11.54  | -0.29      | 17.31      | -0.80      |
| 760 | 3           | 0           | 0          | -0.53   | 0.26    | -11.53  | 0.01       | 17.12      | 0.18       |
| 764 | 3           | 0           | 5          | -0.63   | 1.03    | -11.54  | 0.35       | 17.33      | 1.30       |
| 768 | 3           | 0           | 10         | -0.76   | 1.95    | -11.55  | 0.66       | 18.26      | 2.52       |
| 809 | 3           | 0           | 10         | -0.75   | 2.03    | -11.55  | 0.63       | 18.23      | 2.74       |
| 772 | 3           | 0           | 15         | -0.95   | 3.71    | -11.56  | 0.91       | 19.83      | 5.19       |
| 789 | 3           | 0           | 15         | -0.92   | 3.65    | -11.55  | 0.93       | 19.75      | 5.15       |

\* Indicates model was close to heave stop

TABLE 7.111.2 - STABILITY DATA IN BODY AXES AT TRANSON

10 deg Deadrise, L/R = 0.117, Cv = 1.5

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 837  | 3           | 10          | -15        | -1.03   | -5.61   | -10.75  | -1.68      | 16.51      | -9.82      |
| 833  | 3           | 10          | -10        | -0.78   | -3.34   | -11.14  | -1.53      | 16.36      | -5.38      |
| 840  | 3           | 10          | -10        | -1.01   | -3.84   | -11.06  | -2.00      | 16.27      | -6.33      |
| 830  | 3           | 10          | -5         | -0.68   | -2.33   | -11.31  | -1.37      | 16.41      | -3.53      |
| 812  | 3           | 10          | 0          | -0.64   | -1.58   | -11.44  | -1.12      | 16.83      | -2.31      |
| 813  | 3           | 10          | 0          | -0.61   | -1.58   | -11.44  | -1.09      | 16.76      | -2.29      |
| 817  | 3           | 10          | 5          | -0.57   | -0.91   | -11.55  | -0.88      | 17.15      | -1.31      |
| 821  | 3           | 10          | 10         | -0.59   | 0.04    | -11.72  | -0.46      | 18.09      | -0.20      |
| 825  | 3           | 10          | 15         | -0.69   | 1.18    | -11.93  | 0.10       | 19.71      | 1.11       |
| 876  | 3           | 20          | -15        | -1.14   | -9.11   | -8.99   | -2.46      | 13.24      | -16.10     |
| 871  | 3           | 20          | -10        | -0.87   | -6.02   | -10.10  | -2.41      | 14.56      | -9.94      |
| 854  | 3           | 20          | -5         | -0.78   | -4.57   | -10.62  | -2.34      | 15.30      | -7.12      |
| 842  | 3           | 20          | 0          | -0.77   | -3.60   | -10.98  | -2.13      | 16.12      | -5.34      |
| 846  | 3           | 20          | 5          | -0.76   | -2.58   | -11.35  | -1.96      | 16.95      | -3.82      |
| 850  | 3           | 20          | 10         | -0.78   | -1.30   | -11.82  | -1.49      | 18.22      | -2.14      |
| 879  | 3           | 20          | 15         | -0.74   | -0.25   | -12.19  | -0.86      | 19.55      | -0.90      |
| 1054 | 6           | -10         | -15        | -0.30   | -1.23   | -11.98  | -0.43      | 15.36      | -0.96      |
| 1050 | 6           | -10         | -10        | -0.33   | -0.14   | -11.79  | 0.13       | 14.07      | -0.19      |
| 1045 | 6           | -10         | -5         | -0.41   | 1.14    | -11.57  | 0.70       | 13.38      | 0.89       |
| 1012 | 6           | -10         | 0          | -0.41   | 2.14    | -11.40  | 0.98       | 13.43      | 1.95       |
| 1034 | 6           | -10         | 0          | -0.35   | 2.16    | -11.39  | 0.96       | 13.29      | 1.94       |
| 1039 | 6           | -10         | 5          | -0.48   | 3.22    | -11.21  | 1.24       | 13.10      | 2.97       |
| 1016 | 6           | -10         | 10         | -0.57   | 4.97    | -10.92  | 1.73       | 13.31      | 5.04       |
| 1020 | 6           | -10         | 15         | -0.73   | 7.89    | -10.42  | 2.27       | 13.77      | 8.56       |
| 1038 | 6           | -10         | 15         | -0.64   | 7.87    | -10.41  | 2.40       | 13.36      | 8.53       |
| 938  | 6           | 0           | -15        | -0.40   | -2.88   | -11.60  | -1.31      | 14.43      | -2.92      |
| 934  | 6           | 0           | -10        | -0.34   | -1.79   | -11.59  | -0.90      | 13.90      | -1.82      |
| 930  | 6           | 0           | -5         | -0.35   | -0.77   | -11.59  | -0.58      | 13.47      | -1.08      |
| 913  | 6           | 0           | 0          | -0.34   | 0.31    | -11.59  | -0.00      | 13.26      | -0.01      |
| 918  | 6           | 0           | 5          | -0.35   | 1.33    | -11.59  | 0.36       | 13.59      | 0.96       |
| 922  | 6           | 0           | 10         | -0.40   | 2.36    | -11.59  | 0.75       | 14.21      | 1.86       |
| 926  | 6           | 0           | 15         | -0.49   | 4.11    | -11.60  | 1.25       | 14.99      | 3.62       |
| 979  | 6           | 10          | -15        | -0.48   | -5.43   | -10.83  | -2.12      | 12.79      | -6.13      |
| 975  | 6           | 10          | -10        | -0.44   | -3.60   | -11.14  | -1.73      | 12.62      | -3.96      |
| 971  | 6           | 10          | -5         | -0.33   | -2.26   | -11.37  | -1.20      | 12.74      | -2.29      |
| 955  | 6           | 10          | 0          | -0.36   | -1.22   | -11.55  | -0.81      | 12.90      | -1.22      |
| 959  | 6           | 10          | 5          | -0.37   | -0.21   | -11.73  | -0.53      | 13.41      | -0.41      |
| 963  | 6           | 10          | 10         | -0.31   | 0.70    | -11.89  | -0.10      | 14.35      | 0.12       |
| 967  | 6           | 10          | 15         | -0.28   | 1.60    | -12.04  | 0.30       | 14.86      | 0.91       |
| 1003 | 6           | 20          | -15        | -0.60   | -8.51   | -9.27   | -2.93      | 10.75      | -10.47     |
| 999  | 6           | 20          | -10        | -0.49   | -5.97   | -10.18  | -2.57      | 11.58      | -6.94      |
| 995  | 6           | 20          | -5         | -0.40   | -4.38   | -10.75  | -2.26      | 12.18      | -4.90      |
| 983  | 6           | 20          | 0          | -0.37   | -3.09   | -11.21  | -1.86      | 12.78      | -3.34      |
| 987  | 6           | 20          | 5          | -0.39   | -1.64   | -11.74  | -1.39      | 13.61      | -1.86      |
| 991  | 6           | 20          | 10         | -0.39   | -0.47   | -12.17  | -0.94      | 14.56      | -0.97      |
| 1007 | 6           | 20          | 15         | -0.44   | -0.01   | -12.34  | -0.65      | 15.20      | -0.70      |

\* Indicates model was close to heave stop

TABLE 7.113.1 - STABILITY DATA IN BODY AXES AT TRANSOM

10 deg Deadrise, L/R = 0.117, Cv = 3

| RUN   | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|-------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 755   | 0           | -10         | -15        | -4.47   | -2.84   | -12.17  | -1.22      | 39.41      | -6.80      |
| 758   | 0           | -10         | -15        | -4.41   | -2.93   | -12.18  | -1.42      | 39.31      | -7.12      |
| 751   | 0           | -10         | -10        | -4.79   | -2.13   | -12.04  | -0.69      | 37.77      | -5.49      |
| 747   | 0           | -10         | -5         | -4.29   | -0.24   | -11.71  | 0.22       | 32.47      | -1.85      |
| 734   | 0           | -10         | 0          | -4.11   | 2.24    | -11.27  | 1.15       | 28.62      | 2.29       |
| 738   | 0           | -10         | 5          | -5.45   | 6.44    | -10.53  | 1.72       | 29.52      | 10.74      |
| 742   | 0           | -10         | 10         | -7.24   | 18.18   | -8.46   | 3.17       | 29.10      | 34.70      |
| 666 * | 0           | 0           | -10        | -7.50   | -10.34  | -11.49  | -2.03      | 31.61      | -25.33     |
| 662   | 0           | 0           | -5         | -4.80   | -2.22   | -11.49  | -0.68      | 29.41      | -4.96      |
| 650   | 0           | 0           | 0          | -3.82   | 0.36    | -11.49  | 0.17       | 28.28      | -0.20      |
| 654   | 0           | 0           | 5          | -4.89   | 3.19    | -11.49  | 0.82       | 31.31      | 4.52       |
| 658 * | 0           | 0           | 10         | -7.10   | 11.85   | -11.49  | 2.45       | 35.45      | 19.64      |
| 691 * | 0           | 10          | -10        | -7.56   | -15.52  | -8.93   | -2.36      | 21.25      | -39.47     |
| 687   | 0           | 10          | -5         | -4.93   | -5.16   | -10.76  | -1.66      | 24.27      | -12.11     |
| 670   | 0           | 10          | 0          | -3.82   | -1.97   | -11.32  | -1.13      | 25.71      | -3.78      |
| 674   | 0           | 10          | 5          | -3.96   | 0.15    | -11.69  | -0.32      | 30.52      | -0.26      |
| 678   | 0           | 10          | 10         | -4.41   | 2.99    | -12.19  | 0.90       | 34.86      | 4.17       |
| 683   | 0           | 10          | 15         | -3.88   | 3.87    | -12.35  | 1.99       | 34.97      | 6.03       |
| 730 * | 0           | 20          | -10        | -7.47   | -21.03  | -4.57   | -4.18      | 6.38       | -54.16     |
| 726   | 0           | 20          | -5         | -4.71   | -8.31   | -9.20   | -2.54      | 16.55      | -20.49     |
| 709   | 0           | 20          | 0          | -3.61   | -4.13   | -10.72  | -2.14      | 21.60      | -8.61      |
| 713   | 0           | 20          | 5          | -3.75   | -0.96   | -11.88  | -1.29      | 27.71      | -2.49      |
| 717   | 0           | 20          | 10         | -2.98   | -0.23   | -12.14  | -0.48      | 28.96      | -1.71      |
| 718   | 0           | 20          | 10         | -2.94   | -0.34   | -12.11  | -0.58      | 28.68      | -1.92      |
| 722   | 0           | 20          | 15         | -2.21   | -0.12   | -12.18  | -0.81      | 24.40      | -1.60      |
| 885   | 3           | -10         | -15        | -0.87   | -0.87   | -11.88  | -0.75      | 15.50      | -0.78      |
| 889   | 3           | -10         | -10        | -1.09   | -0.23   | -11.78  | -0.25      | 19.11      | 0.02       |
| 893   | 3           | -10         | -5         | -1.42   | 0.42    | -11.69  | 0.43       | 21.92      | 0.92       |
| 897   | 3           | -10         | 0          | -1.84   | 2.23    | -11.39  | 1.25       | 21.02      | 2.59       |
| 901   | 3           | -10         | 5          | -2.23   | 5.67    | -10.80  | 2.28       | 20.95      | 7.07       |
| 905   | 3           | -10         | 10         | -3.41   | 13.68   | -9.45   | 4.05       | 22.71      | 18.42      |
| 909 * | 3           | -10         | 15         | -5.83   | 31.34   | -6.47   | 6.39       | 26.77      | 51.02      |
| 804   | 3           | 0           | -15        | -2.12   | -5.11   | -11.62  | -2.62      | 22.42      | -6.43      |
| 800   | 3           | 0           | -10        | -1.86   | -2.42   | -11.60  | -1.56      | 21.35      | -3.16      |
| 796   | 3           | 0           | -5         | -1.57   | -0.70   | -11.59  | -0.65      | 20.86      | -0.94      |
| 761   | 3           | 0           | 0          | -1.43   | 0.43    | -11.58  | 0.22       | 20.20      | 0.34       |
| 806   | 3           | 0           | 0          | -1.42   | 0.39    | -11.58  | 0.10       | 20.85      | 0.27       |
| 765   | 3           | 0           | 5          | -1.70   | 2.27    | -11.59  | 1.15       | 20.57      | 2.34       |
| 807   | 3           | 0           | 5          | -1.73   | 2.10    | -11.60  | 0.91       | 21.12      | 2.11       |
| 769   | 3           | 0           | 10         | -2.05   | 5.17    | -11.61  | 2.19       | 21.98      | 5.44       |
| 808   | 3           | 0           | 10         | -2.05   | 5.02    | -11.61  | 1.97       | 22.39      | 5.27       |
| 773   | 3           | 0           | 15         | -2.88   | 11.44   | -11.66  | 3.97       | 26.28      | 12.69      |
| 788   | 3           | 0           | 15         | -2.59   | 10.47   | -11.64  | 3.63       | 25.51      | 11.31      |

\* Indicates model was close to heave stop

TABLE 7.113.2 - STABILITY DATA IN BODY AXES AT TRANSOM

10 deg Deadrise, L/R = 0.117, Cv = 3

| RUN   | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|-------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 838   | 3           | 10          | -15        | -4.45   | -20.18  | -8.36   | -5.20      | 19.48      | -36.30     |
| 834   | 3           | 10          | -10        | -2.64   | -6.60   | -10.66  | -2.58      | 19.29      | -10.26     |
| 831   | 3           | 10          | -5         | -1.93   | -2.89   | -11.28  | -1.73      | 18.78      | -4.05      |
| 814   | 3           | 10          | 0          | -1.55   | -0.59   | -11.66  | -0.79      | 19.44      | -1.24      |
| 818   | 3           | 10          | 5          | -1.27   | 0.11    | -11.77  | -0.14      | 18.49      | -0.23      |
| 822   | 3           | 10          | 10         | -0.94   | 0.69    | -11.86  | 0.42       | 14.88      | 0.42       |
| 826   | 3           | 10          | 15         | -0.59   | 0.99    | -11.89  | 0.60       | 11.12      | 0.51       |
| 877 * | 3           | 20          | -15        | -5.67   | -33.22  | -0.47   | -6.56      | -0.59      | -70.09     |
| 872   | 3           | 20          | -10        | -3.30   | -12.52  | -7.87   | -3.63      | 13.27      | -22.20     |
| 855   | 3           | 20          | -5         | -2.46   | -5.75   | -10.29  | -2.66      | 16.64      | -8.75      |
| 868   | 3           | 20          | -5         | -2.36   | -5.51   | -10.37  | -2.65      | 16.68      | -8.28      |
| 843   | 3           | 20          | 0          | -1.97   | -2.42   | -11.47  | -1.89      | 18.19      | -3.70      |
| 847   | 3           | 20          | 5          | -1.23   | -0.47   | -12.14  | -1.00      | 17.77      | -1.25      |
| 851   | 3           | 20          | 10         | -0.84   | -0.30   | -12.18  | -0.95      | 13.74      | -0.92      |
| 880   | 3           | 20          | 15         | -0.47   | -0.77   | -11.99  | -1.41      | 10.51      | -1.17      |
| 1055  | 6           | -10         | -15        | -0.25   | -0.73   | -11.89  | -0.67      | 6.93       | -0.71      |
| 1051  | 6           | -10         | -10        | -0.45   | -0.46   | -11.86  | -0.40      | 8.90       | -0.44      |
| 1047  | 6           | -10         | -5         | -0.74   | -0.10   | -11.83  | -0.19      | 11.70      | -0.16      |
| 1013  | 6           | -10         | 0          | -0.87   | 0.95    | -11.66  | 0.70       | 13.59      | 0.87       |
| 1057  | 6           | -10         | 0          | -0.94   | 0.84    | -11.68  | 0.59       | 13.51      | 0.68       |
| 1041  | 6           | -10         | 5          | -1.26   | 3.67    | -11.22  | 1.53       | 13.95      | 2.72       |
| 1017  | 6           | -10         | 10         | -1.74   | 8.89    | -10.35  | 3.30       | 15.18      | 7.55       |
| 1021  | 6           | -10         | 15         | -2.50   | 20.39   | -8.40   | 6.29       | 17.52      | 20.76      |
| 1037  | 6           | -10         | 15         | -2.14   | 19.46   | -8.53   | 6.04       | 17.15      | 19.66      |
| 939   | 6           | 0           | -15        | -0.70   | -1.86   | -11.63  | -1.62      | 11.28      | -1.54      |
| 935   | 6           | 0           | -10        | -0.44   | -0.76   | -11.60  | -0.90      | 11.23      | -0.79      |
| 931   | 6           | 0           | -5         | -0.43   | -0.37   | -11.60  | -0.47      | 11.05      | -0.49      |
| 914   | 6           | 0           | 0          | -0.37   | 0.06    | -11.59  | -0.01      | 10.74      | -0.14      |
| 919   | 6           | 0           | 5          | -0.46   | 0.54    | -11.60  | 0.52       | 10.98      | 0.44       |
| 923   | 6           | 0           | 10         | -0.66   | 1.68    | -11.62  | 1.13       | 10.99      | 1.01       |
| 927   | 6           | 0           | 15         | -0.89   | 3.49    | -11.65  | 1.94       | 11.62      | 2.01       |
| 980   | 6           | 10          | -15        | -1.52   | -8.45   | -10.40  | -3.69      | 14.31      | -8.11      |
| 976   | 6           | 10          | -10        | -1.29   | -3.66   | -11.22  | -2.15      | 13.46      | -3.45      |
| 972   | 6           | 10          | -5         | -0.94   | -1.02   | -11.65  | -1.14      | 12.76      | -1.29      |
| 956   | 6           | 10          | 0          | -0.58   | -0.46   | -11.71  | -0.64      | 10.47      | -0.77      |
| 960   | 6           | 10          | 5          | -0.40   | -0.07   | -11.76  | -0.33      | 8.23       | -0.45      |
| 964   | 6           | 10          | 10         | -0.23   | 0.22    | -11.79  | -0.09      | 6.54       | -0.16      |
| 968   | 6           | 10          | 15         | -0.14   | 0.35    | -11.81  | -0.07      | 5.72       | -0.08      |
| 1004  | 6           | 20          | -15        | -2.12   | -17.92  | -6.01   | -5.19      | 10.17      | -22.03     |
| 1000  | 6           | 20          | -10        | -1.72   | -8.63   | -9.34   | -3.62      | 12.60      | -9.49      |
| 996   | 6           | 20          | -5         | -1.33   | -3.55   | -11.15  | -2.14      | 13.35      | -3.81      |
| 984   | 6           | 20          | 0          | -0.85   | -0.56   | -12.19  | -1.23      | 12.60      | -0.96      |
| 988   | 6           | 20          | 5          | -0.34   | -0.62   | -12.11  | -1.06      | 9.47       | -0.86      |
| 992   | 6           | 20          | 10         | -0.18   | -0.84   | -12.01  | -1.27      | 7.56       | -0.88      |
| 1008  | 6           | 20          | 15         | -0.08   | -1.10   | -11.90  | -1.57      | 6.17       | -0.90      |

\* Indicates model was close to heave stop



TABLE 7.114.1 - STABILITY DATA IN BODY AXES AT TRANSON

10 deg Deadrise, L/R = 0.117, Cv = 4

| RUN   | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|-------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 756   | 0           | -10         | -15        | -3.84   | -2.36   | -12.08  | -1.37      | 34.23      | -4.56      |
| 757   | 0           | -10         | -15        | -3.82   | -2.37   | -12.09  | -1.45      | 34.13      | -4.60      |
| 752   | 0           | -10         | -10        | -5.32   | -1.66   | -11.96  | -0.84      | 42.46      | -4.13      |
| 748   | 0           | -10         | -5         | -7.02   | -1.24   | -11.89  | -0.62      | 44.93      | -4.24      |
| 735   | 0           | -10         | 0          | -7.37   | 1.41    | -11.42  | 0.67       | 37.03      | -0.47      |
| 739   | 0           | -10         | 5          | -11.25  | 12.28   | -9.50   | 3.10       | 36.85      | 20.44      |
| 743   | 0           | -10         | 10         | -11.95  | 28.55   | -6.63   | 4.73       | 36.08      | 55.66      |
| 667 * | 0           | 0           | -10        | -12.56  | -16.80  | -11.49  | -4.60      | 41.76      | -43.49     |
| 663   | 0           | 0           | -5         | -9.51   | -3.19   | -11.49  | -1.05      | 40.36      | -8.30      |
| 651   | 0           | 0           | 0          | -6.92   | 0.21    | -11.49  | 0.21       | 37.00      | -1.07      |
| 655   | 0           | 0           | 5          | -7.48   | 4.23    | -11.49  | 1.17       | 40.17      | 5.65       |
| 659 * | 0           | 0           | 10         | -11.88  | 17.54   | -11.49  | 3.47       | 47.43      | 30.12      |
| 692 * | 0           | 10          | -10        | -13.02  | -25.21  | -7.22   | -3.76      | 22.03      | -67.82     |
| 688 * | 0           | 10          | -5         | -11.55  | -10.57  | -9.80   | -2.73      | 29.34      | -29.91     |
| 671   | 0           | 10          | 0          | -7.01   | -1.81   | -11.35  | -1.41      | 32.05      | -3.38      |
| 675   | 0           | 10          | 5          | -6.33   | 0.78    | -11.80  | 0.21       | 38.61      | 0.19       |
| 679   | 0           | 10          | 10         | -4.63   | 1.55    | -11.94  | 1.33       | 34.45      | 2.13       |
| 680   | 0           | 10          | 10         | -4.54   | 1.47    | -11.93  | 1.31       | 34.17      | 2.00       |
| 684   | 0           | 10          | 15         | -3.54   | 2.76    | -12.15  | 1.96       | 28.82      | 3.88       |
| 731 * | 0           | 20          | -10        | -12.68  | -33.45  | -0.05   | -5.61      | -0.52      | -90.95     |
| 727 * | 0           | 20          | -5         | -11.46  | -15.57  | -6.56   | -4.00      | 14.45      | -46.24     |
| 710   | 0           | 20          | 0          | -6.61   | -4.35   | -10.64  | -2.14      | 25.16      | -10.76     |
| 714   | 0           | 20          | 5          | -5.38   | -0.73   | -11.96  | -0.90      | 32.40      | -3.31      |
| 719   | 0           | 20          | 10         | -3.51   | -0.72   | -11.96  | -1.20      | 26.15      | -3.03      |
| 723   | 0           | 20          | 15         | -1.85   | -1.82   | -11.56  | -2.25      | 18.31      | -3.10      |
| 886   | 3           | -10         | -15        | -0.84   | -0.67   | -11.85  | -0.50      | 11.23      | -0.50      |
| 890   | 3           | -10         | -10        | -1.13   | -0.22   | -11.78  | -0.44      | 13.79      | 0.09       |
| 894   | 3           | -10         | -5         | -1.94   | 0.24    | -11.74  | 0.23       | 19.70      | 0.68       |
| 898   | 3           | -10         | 0          | -2.42   | 1.94    | -11.47  | 1.30       | 22.86      | 2.45       |
| 902   | 3           | -10         | 5          | -3.61   | 7.43    | -10.57  | 3.01       | 24.40      | 8.70       |
| 906   | 3           | -10         | 10         | -6.05   | 22.35   | -8.06   | 6.45       | 29.06      | 30.42      |
| 910 * | 3           | -10         | 15         | -10.10  | 53.55   | -2.78   | 12.23      | 35.43      | 89.27      |
| 805   | 3           | 0           | -15        | -2.65   | -4.76   | -11.64  | -3.19      | 19.99      | -5.19      |
| 801   | 3           | 0           | -10        | -2.37   | -2.02   | -11.63  | -1.81      | 19.58      | -2.64      |
| 797   | 3           | 0           | -5         | -1.94   | -0.59   | -11.61  | -0.70      | 19.74      | -0.88      |
| 762   | 3           | 0           | 0          | -1.95   | 0.38    | -11.61  | 0.31       | 19.71      | 0.51       |
| 793   | 3           | 0           | 0          | -1.92   | 0.16    | -11.61  | 0.03       | 20.38      | 0.22       |
| 766   | 3           | 0           | 5          | -2.34   | 2.07    | -11.63  | 1.37       | 19.27      | 2.09       |
| 792   | 3           | 0           | 5          | -2.21   | 1.78    | -11.62  | 1.01       | 19.62      | 1.76       |
| 770   | 3           | 0           | 10         | -2.69   | 5.06    | -11.65  | 2.73       | 20.41      | 4.78       |
| 791   | 3           | 0           | 10         | -2.59   | 4.65    | -11.64  | 2.27       | 20.77      | 4.21       |
| 774   | 3           | 0           | 15         | -3.74   | 12.65   | -11.70  | 5.13       | 26.05      | 12.32      |
| 787   | 3           | 0           | 15         | -3.27   | 11.25   | -11.68  | 4.52       | 24.67      | 10.33      |

\* Indicates model was close to heave stop

TABLE 7.114.2 - STABILITY DATA IN BODY AXES AT TRANSOM

10 deg Deadrise, L/R = 0.117, Cv = 4

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 839  | 3           | 10          | -15        | -9.76   | -43.36  | -4.56   | -13.28     | 22.81      | -87.39     |
| 835  | 3           | 10          | -10        | -4.30   | -8.41   | -10.43  | -3.49      | 22.13      | -13.01     |
| 829  | 3           | 10          | -5         | -3.08   | -2.36   | -11.43  | -1.91      | 20.83      | -3.80      |
| 815  | 3           | 10          | 0          | -1.98   | -0.36   | -11.73  | -0.65      | 17.46      | -0.96      |
| 819  | 3           | 10          | 5          | -1.27   | 0.15    | -11.78  | -0.17      | 12.63      | -0.36      |
| 823  | 3           | 10          | 10         | -0.92   | 0.38    | -11.80  | -0.20      | 9.93       | -0.10      |
| 827  | 3           | 10          | 15         | -0.65   | 0.53    | -11.81  | -0.25      | 8.49       | 0.00       |
| 873  | 3           | 20          | -10        | -5.94   | -20.46  | -5.13   | -5.44      | 11.84      | -38.41     |
| 874  | 3           | 20          | -10        | -5.89   | -20.08  | -5.26   | -5.14      | 11.99      | -37.68     |
| 869  | 3           | 20          | -5         | -4.01   | -6.01   | -10.28  | -3.02      | 19.17      | -10.09     |
| 844  | 3           | 20          | 0          | -2.92   | -1.54   | -11.85  | -2.13      | 18.60      | -3.18      |
| 848  | 3           | 20          | 5          | -1.41   | -0.86   | -12.01  | -1.45      | 14.18      | -1.54      |
| 852  | 3           | 20          | 10         | -0.85   | -1.24   | -11.84  | -1.82      | 9.51       | -1.20      |
| 881  | 3           | 20          | 15         | -0.41   | -1.69   | -11.65  | -2.26      | 6.93       | -1.07      |
| 1056 | 6           | -10         | -15        | -0.22   | -0.36   | -11.82  | -0.15      | 4.21       | -1.04      |
| 1052 | 6           | -10         | -10        | -0.38   | -0.07   | -11.78  | 0.01       | 5.39       | -0.53      |
| 1048 | 6           | -10         | -5         | -0.63   | 0.32    | -11.74  | 0.19       | 6.76       | 0.03       |
| 1014 | 6           | -10         | 0          | -0.96   | 0.91    | -11.67  | 0.74       | 9.62       | 0.62       |
| 1043 | 6           | -10         | 0          | -0.92   | 0.64    | -11.72  | 0.49       | 9.04       | 0.45       |
| 1042 | 6           | -10         | 5          | -1.47   | 3.22    | -11.32  | 1.59       | 11.47      | 2.12       |
| 1018 | 6           | -10         | 10         | -2.34   | 9.60    | -10.29  | 3.80       | 14.51      | 6.91       |
| 1022 | 6           | -10         | 15         | -3.56   | 26.85   | -7.38   | 8.33       | 18.90      | 23.94      |
| 1036 | 6           | -10         | 15         | -2.90   | 25.05   | -7.62   | 7.75       | 18.44      | 21.60      |
| 940  | 6           | 0           | -15        | -0.38   | -1.38   | -11.59  | -1.57      | 5.71       | -1.13      |
| 936  | 6           | 0           | -10        | -0.30   | -0.88   | -11.58  | -1.03      | 5.43       | -0.89      |
| 932  | 6           | 0           | -5         | -0.32   | -0.29   | -11.59  | -0.48      | 5.33       | -0.48      |
| 915  | 6           | 0           | 0          | -0.35   | 0.33    | -11.59  | 0.18       | 5.40       | 0.05       |
| 916  | 6           | 0           | 0          | -0.31   | 0.28    | -11.59  | 0.10       | 5.22       | -0.08      |
| 920  | 6           | 0           | 5          | -0.29   | 0.75    | -11.58  | 0.63       | 5.42       | 0.24       |
| 924  | 6           | 0           | 10         | -0.39   | 1.21    | -11.59  | 1.13       | 5.63       | 0.47       |
| 928  | 6           | 0           | 15         | -0.50   | 1.87    | -11.61  | 1.65       | 6.30       | 0.76       |
| 981  | 6           | 10          | -15        | -1.96   | -7.89   | -10.55  | -4.10      | 13.13      | -6.25      |
| 977  | 6           | 10          | -10        | -1.45   | -3.03   | -11.35  | -2.38      | 10.80      | -2.64      |
| 973  | 6           | 10          | -5         | -0.79   | -1.15   | -11.61  | -1.44      | 8.40       | -1.28      |
| 957  | 6           | 10          | 0          | -0.52   | -0.92   | -11.63  | -1.32      | 6.07       | -1.06      |
| 961  | 6           | 10          | 5          | -0.33   | -0.73   | -11.64  | -1.23      | 5.21       | -0.86      |
| 965  | 6           | 10          | 10         | -0.18   | -0.47   | -11.67  | -1.12      | 4.46       | -0.55      |
| 969  | 6           | 10          | 15         | -0.04   | -0.27   | -11.69  | -1.08      | 3.85       | -0.37      |
| 1005 | 6           | 20          | -15        | -3.55   | -26.84  | -2.92   | -7.54      | 9.57       | -31.78     |
| 1001 | 6           | 20          | -10        | -2.49   | -9.74   | -9.03   | -4.17      | 12.80      | -9.33      |
| 997  | 6           | 20          | -5         | -1.68   | -2.76   | -11.48  | -2.21      | 12.23      | -2.89      |
| 985  | 6           | 20          | 0          | -1.07   | 0.07    | -12.44  | -1.43      | 10.07      | -0.58      |
| 989  | 6           | 20          | 5          | -0.31   | -1.36   | -11.83  | -1.86      | 6.23       | -0.84      |
| 993  | 6           | 20          | 10         | -0.08   | -1.63   | -11.71  | -2.06      | 4.81       | -0.68      |
| 1010 | 6           | 20          | 10         | -0.08   | -1.91   | -11.61  | -2.30      | 4.72       | -1.13      |
| 1009 | 6           | 20          | 15         | -0.01   | -1.96   | -11.58  | -2.39      | 3.74       | -0.70      |

\* Indicates model was close to heave stop

TABLE 7.120.1 - STABILITY DATA IN BODY AXES AT TRANSOM

10 deg Deadrise, L/R = 0.234, Cv = 0

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 2471 | 0           | -10         | -15        | -0.04   | 1.91    | -11.33  | 1.33       | 18.11      | 3.02       |
| 2462 | 0           | -10         | -10        | -0.01   | 1.94    | -11.33  | 1.33       | 18.11      | 3.10       |
| 2458 | 0           | -10         | -5         | -0.04   | 1.95    | -11.32  | 1.34       | 18.17      | 3.09       |
| 2427 | 0           | -10         | 0          | 0.12    | 1.92    | -11.33  | 1.25       | 18.46      | 3.08       |
| 2431 | 0           | -10         | 5          | 0.02    | 1.96    | -11.32  | 1.31       | 18.15      | 3.19       |
| 2435 | 0           | -10         | 10         | 0.01    | 1.96    | -11.32  | 1.33       | 18.14      | 3.15       |
| 2454 | 0           | -10         | 15         | -0.03   | 1.92    | -11.33  | 1.29       | 18.24      | 3.04       |
| 2348 | 0           | 0           | -15        | -0.02   | -0.08   | -11.49  | 0.00       | 18.10      | -0.14      |
| 2344 | 0           | 0           | -10        | -0.03   | -0.09   | -11.49  | -0.00      | 18.18      | -0.15      |
| 2340 | 0           | 0           | -5         | -0.04   | -0.09   | -11.49  | 0.01       | 18.23      | -0.12      |
| 2315 | 0           | 0           | 0          | -0.03   | -0.04   | -11.49  | 0.04       | 18.30      | -0.07      |
| 2329 | 0           | 0           | 5          | -0.04   | -0.04   | -11.49  | 0.03       | 18.30      | -0.06      |
| 2336 | 0           | 0           | 10         | -0.04   | -0.05   | -11.49  | 0.02       | 18.30      | -0.07      |
| 2395 | 0           | 10          | -10        | -0.07   | -2.16   | -11.29  | -1.39      | 17.71      | -3.39      |
| 2390 | 0           | 10          | -5         | -0.05   | -2.10   | -11.30  | -1.36      | 17.86      | -3.31      |
| 2373 | 0           | 10          | 0          | 0.05    | -2.06   | -11.30  | -1.24      | 18.25      | -3.30      |
| 2378 | 0           | 10          | 5          | -0.08   | -2.08   | -11.30  | -1.30      | 18.00      | -3.30      |
| 2382 | 0           | 10          | 10         | -0.08   | -2.04   | -11.31  | -1.25      | 17.95      | -3.24      |
| 2386 | 0           | 10          | 15         | -0.09   | -2.05   | -11.31  | -1.32      | 17.97      | -3.24      |
| 2422 | 0           | 20          | -15        | -0.05   | -4.00   | -10.77  | -2.10      | 16.92      | -6.29      |
| 2419 | 0           | 20          | -10        | -0.06   | -4.02   | -10.76  | -2.11      | 16.99      | -6.36      |
| 2415 | 0           | 20          | -5         | -0.05   | -4.02   | -10.76  | -2.12      | 17.04      | -6.37      |
| 2399 | 0           | 20          | 0          | -0.03   | -3.98   | -10.78  | -2.07      | 17.21      | -6.30      |
| 2403 | 0           | 20          | 0          | -0.07   | -4.01   | -10.77  | -2.12      | 17.11      | -6.36      |
| 2407 | 0           | 20          | 10         | -0.07   | -3.99   | -10.78  | -2.08      | 17.15      | -6.33      |
| 2411 | 0           | 20          | 15         | -0.07   | -4.00   | -10.77  | -2.10      | 17.11      | -6.32      |
| 2599 | 3           | -10         | -15        | 0.62    | 1.98    | -11.30  | 1.21       | 12.08      | 2.20       |
| 2595 | 3           | -10         | -10        | 0.60    | 1.97    | -11.30  | 1.20       | 12.17      | 2.18       |
| 2590 | 3           | -10         | -5         | 0.50    | 1.96    | -11.31  | 1.10       | 12.42      | 2.16       |
| 2585 | 3           | -10         | 0          | 0.59    | 1.98    | -11.30  | 1.21       | 12.21      | 2.24       |
| 2603 | 3           | -10         | 5          | 0.58    | 2.01    | -11.30  | 1.25       | 12.21      | 2.28       |
| 2607 | 3           | -10         | 10         | 0.58    | 2.00    | -11.30  | 1.23       | 12.14      | 2.24       |
| 2611 | 3           | -10         | 15         | 0.58    | 2.00    | -11.30  | 1.23       | 12.13      | 2.24       |
| 2501 | 3           | 0           | -15        | 0.61    | 0.01    | -11.47  | 0.11       | 12.01      | 0.03       |
| 2497 | 3           | 0           | -10        | 0.58    | -0.01   | -11.48  | 0.10       | 12.07      | 0.01       |
| 2493 | 3           | 0           | -5         | 0.59    | 0.03    | -11.47  | 0.10       | 12.02      | 0.08       |
| 2477 | 3           | 0           | 0          | 0.58    | -0.03   | -11.48  | 0.05       | 12.09      | -0.02      |
| 2481 | 3           | 0           | 5          | 0.54    | -0.02   | -11.48  | 0.09       | 12.08      | 0.01       |
| 2485 | 3           | 0           | 10         | 0.55    | 0.00    | -11.48  | 0.11       | 12.10      | 0.05       |
| 2489 | 3           | 0           | 15         | 0.55    | 0.00    | -11.48  | 0.09       | 12.10      | 0.04       |

\* Indicates model was close to heave stop

TABLE 7.120.2 - STABILITY DATA IN BODY AXES AT TRANSOM

10 deg Deadrise, L/R = 0.234, Cv = 0

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 2535 | 3           | 10          | -15        | 0.58    | -1.98   | -11.30  | -1.01      | 12.15      | -2.20      |
| 2519 | 3           | 10          | -10        | 0.58    | -1.97   | -11.30  | -1.01      | 12.11      | -2.14      |
| 2515 | 3           | 10          | -5         | 0.55    | -1.99   | -11.30  | -1.04      | 12.19      | -2.18      |
| 2507 | 3           | 10          | 0          | 0.56    | -1.96   | -11.31  | -1.02      | 12.17      | -2.12      |
| 2511 | 3           | 10          | 5          | 0.54    | -1.96   | -11.31  | -1.00      | 12.20      | -2.10      |
| 2540 | 3           | 10          | 10         | 0.59    | -1.93   | -11.31  | -0.99      | 11.97      | -2.04      |
| 2545 | 3           | 10          | 15         | 0.55    | -1.95   | -11.31  | -1.01      | 12.08      | -2.08      |
| 2578 | 3           | 20          | -15        | 0.60    | -3.92   | -10.78  | -1.93      | 11.92      | -4.43      |
| 2574 | 3           | 20          | -10        | 0.57    | -3.92   | -10.79  | -1.90      | 12.02      | -4.44      |
| 2570 | 3           | 20          | -5         | 0.56    | -3.93   | -10.78  | -1.93      | 11.98      | -4.45      |
| 2566 | 3           | 20          | 0          | 0.60    | -3.89   | -10.80  | -1.88      | 12.00      | -4.36      |
| 2561 | 3           | 20          | 5          | 0.55    | -3.90   | -10.79  | -1.90      | 12.06      | -4.40      |
| 2556 | 3           | 20          | 10         | 0.55    | -3.90   | -10.79  | -1.92      | 12.07      | -4.39      |
| 2552 | 3           | 20          | 15         | 0.59    | -3.85   | -10.81  | -1.87      | 12.03      | -4.31      |
| 3309 | 6           | -10         | -15        | 1.25    | 2.00    | -11.24  | 1.11       | 8.55       | 1.70       |
| 3305 | 6           | -10         | -10        | 1.25    | 2.01    | -11.24  | 1.09       | 8.57       | 1.74       |
| 3301 | 6           | -10         | -5         | 1.21    | 1.97    | -11.25  | 1.07       | 8.50       | 1.61       |
| 3284 | 6           | -10         | 0          | 1.19    | 2.04    | -11.24  | 1.09       | 8.90       | 1.83       |
| 3288 | 6           | -10         | 5          | 1.24    | 2.01    | -11.24  | 1.10       | 8.60       | 1.74       |
| 3293 | 6           | -10         | 10         | 1.22    | 2.02    | -11.24  | 1.12       | 8.58       | 1.74       |
| 3297 | 6           | -10         | 15         | 1.20    | 2.07    | -11.24  | 1.16       | 8.56       | 1.85       |
| 2658 | 6           | 0           | -15        | 1.22    | 0.01    | -11.42  | 0.09       | 8.63       | 0.13       |
| 2654 | 6           | 0           | -10        | 1.20    | 0.04    | -11.43  | 0.18       | 8.59       | 0.11       |
| 2650 | 6           | 0           | -5         | 1.20    | 0.02    | -11.43  | 0.11       | 8.70       | 0.13       |
| 2615 | 6           | 0           | 0          | 1.18    | 0.03    | -11.43  | 0.14       | 8.67       | 0.09       |
| 2620 | 6           | 0           | 5          | 1.20    | 0.03    | -11.43  | 0.15       | 8.57       | 0.12       |
| 2642 | 6           | 0           | 10         | 1.10    | 0.07    | -11.44  | 0.13       | 9.01       | 0.19       |
| 2646 | 6           | 0           | 15         | 1.19    | 0.07    | -11.43  | 0.16       | 8.70       | 0.20       |
| 2688 | 6           | 10          | -15        | 1.21    | -1.95   | -11.26  | -0.85      | 8.79       | -1.49      |
| 2683 | 6           | 10          | -10        | 1.20    | -1.96   | -11.26  | -0.85      | 8.72       | -1.53      |
| 2679 | 6           | 10          | -5         | 1.20    | -1.95   | -11.26  | -0.85      | 8.79       | -1.51      |
| 2663 | 6           | 10          | 0          | 1.19    | -1.83   | -11.28  | -0.73      | 8.76       | -1.22      |
| 2667 | 6           | 10          | 5          | 1.18    | -1.94   | -11.26  | -0.81      | 8.67       | -1.50      |
| 2671 | 6           | 10          | 10         | 1.20    | -1.96   | -11.26  | -0.88      | 8.73       | -1.47      |
| 2675 | 6           | 10          | 15         | 1.19    | -1.95   | -11.26  | -0.89      | 8.74       | -1.47      |
| 2701 | 6           | 20          | -15        | 1.19    | -3.89   | -10.75  | -1.70      | 8.87       | -3.37      |
| 2705 | 6           | 20          | -5         | 1.19    | -3.87   | -10.75  | -1.67      | 8.87       | -3.30      |
| 2695 | 6           | 20          | 0          | 1.22    | -3.89   | -10.74  | -1.73      | 8.94       | -3.38      |
| 2709 | 6           | 20          | 0          | 1.17    | -3.87   | -10.75  | -1.71      | 8.88       | -3.30      |
| 2713 | 6           | 20          | 5          | 1.16    | -3.85   | -10.76  | -1.67      | 8.88       | -3.26      |
| 2717 | 6           | 20          | 10         | 1.17    | -3.84   | -10.76  | -1.66      | 8.93       | -3.27      |
| 2735 | 6           | 20          | 10         | 1.19    | -3.89   | -10.75  | -1.77      | 8.91       | -3.33      |
| 2738 | 6           | 20          | 15         | 1.18    | -3.90   | -10.74  | -1.77      | 8.88       | -3.31      |

\* Indicates model was close to heave stop

TABLE 7.121.1 - STABILITY DATA IN BODY AXES AT TRANSOM

10 deg Deadrise, L/R = 0.234, Cv = 1.5

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|--------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 2472   | 0           | -10         | -15        | -1.87   | -0.99   | -11.84  | 0.28       | 26.16      | -4.40      |
| 2463   | 0           | -10         | -10        | -1.62   | 0.30    | -11.61  | 0.69       | 24.81      | -1.30      |
| 2459   | 0           | -10         | -5         | -1.49   | 1.20    | -11.45  | 0.99       | 24.00      | 1.04       |
| 2428   | 0           | -10         | 0          | -0.91   | 1.84    | -11.34  | 1.07       | 22.85      | 2.91       |
| 2432   | 0           | -10         | 5          | -1.37   | 2.54    | -11.22  | 1.19       | 23.32      | 4.72       |
| 2436   | 0           | -10         | 10         | -1.71   | 4.13    | -10.94  | 1.16       | 24.05      | 8.57       |
| 2455 * | 0           | -10         | 15         | -2.66   | 7.76    | -10.30  | 1.10       | 25.39      | 17.43      |
| 2349   | 0           | 0           | -15        | -2.20   | -4.40   | -11.49  | -0.34      | 23.19      | -13.43     |
| 2345   | 0           | 0           | -10        | -1.72   | -1.86   | -11.49  | -0.13      | 22.95      | -5.99      |
| 2341   | 0           | 0           | -5         | -1.54   | -0.84   | -11.49  | -0.03      | 23.08      | -2.91      |
| 2316   | 0           | 0           | 0          | -1.41   | -0.19   | -11.49  | -0.00      | 23.58      | -0.93      |
| 2318   | 0           | 0           | 0          | -1.38   | -0.16   | -11.49  | 0.05       | 23.51      | -0.90      |
| 2330   | 0           | 0           | 5          | -1.44   | 0.32    | -11.49  | 0.05       | 23.88      | 0.47       |
| 2335   | 0           | 0           | 10         | -1.65   | 1.06    | -11.49  | 0.10       | 24.67      | 2.47       |
| 2396   | 0           | 10          | -10        | -1.89   | -5.02   | -10.78  | -1.45      | 19.96      | -12.91     |
| 2391   | 0           | 10          | -5         | -1.54   | -3.08   | -11.12  | -1.37      | 21.25      | -7.53      |
| 2374   | 0           | 10          | 0          | -1.07   | -2.16   | -11.29  | -1.19      | 21.89      | -4.71      |
| 2379   | 0           | 10          | 5          | -1.42   | -1.61   | -11.38  | -1.07      | 23.36      | -3.42      |
| 2383   | 0           | 10          | 10         | -1.59   | -0.80   | -11.53  | -0.79      | 24.86      | -1.48      |
| 2387   | 0           | 10          | 15         | -1.79   | 0.30    | -11.72  | -0.49      | 26.44      | 1.12       |
| 2423 * | 0           | 20          | -15        | -2.62   | -12.86  | -7.55   | -2.82      | 10.30      | -32.78     |
| 2420   | 0           | 20          | -10        | -1.79   | -7.79   | -9.39   | -2.40      | 15.43      | -18.63     |
| 2416   | 0           | 20          | -5         | -1.48   | -5.20   | -10.33  | -2.21      | 18.27      | -11.65     |
| 2400   | 0           | 20          | 0          | -1.17   | -3.97   | -10.78  | -1.99      | 19.94      | -8.37      |
| 2404   | 0           | 20          | 5          | -1.32   | -3.27   | -11.04  | -1.94      | 21.29      | -6.77      |
| 2408   | 0           | 20          | 10         | -1.38   | -2.17   | -11.44  | -1.58      | 22.98      | -4.42      |
| 2412   | 0           | 20          | 15         | -1.53   | -0.97   | -11.88  | -1.13      | 25.26      | -1.93      |
| 2600   | 3           | -10         | -15        | -0.78   | -0.52   | -11.82  | 0.12       | 20.53      | -1.08      |
| 2596   | 3           | -10         | -10        | -0.70   | 0.72    | -11.59  | 0.73       | 18.58      | 0.32       |
| 2591   | 3           | -10         | -5         | -0.75   | 1.55    | -11.45  | 0.94       | 18.04      | 1.48       |
| 2586   | 3           | -10         | 0          | -0.60   | 2.26    | -11.32  | 1.23       | 17.34      | 2.64       |
| 2604   | 3           | -10         | 5          | -0.75   | 3.33    | -11.14  | 1.62       | 17.52      | 4.34       |
| 2608   | 3           | -10         | 10         | -0.93   | 4.81    | -10.88  | 1.71       | 18.17      | 6.66       |
| 2612   | 3           | -10         | 15         | -1.41   | 8.19    | -10.31  | 1.93       | 19.68      | 12.23      |
| 2502   | 3           | 0           | -15        | -0.80   | -1.98   | -11.55  | -0.68      | 18.01      | -3.69      |
| 2498   | 3           | 0           | -10        | -0.73   | -1.07   | -11.54  | -0.39      | 17.29      | -2.12      |
| 2494   | 3           | 0           | -5         | -0.66   | -0.28   | -11.54  | -0.09      | 16.98      | -0.83      |
| 2478   | 3           | 0           | 0          | -0.59   | 0.28    | -11.54  | 0.10       | 17.09      | -0.02      |
| 2482   | 3           | 0           | 5          | -0.74   | 1.04    | -11.54  | 0.46       | 17.67      | 1.03       |
| 2486   | 3           | 0           | 10         | -0.84   | 2.15    | -11.55  | 0.77       | 18.69      | 2.54       |
| 2490   | 3           | 0           | 15         | -1.07   | 3.98    | -11.56  | 1.12       | 20.69      | 5.14       |

\* Indicates model was close to heave stop

TABLE 7.121.2 - STABILITY DATA IN BODY AXES AT TRANSOM

10 deg Deadrise, L/R = 0.234, Cv = 1.5

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 2536 | 3           | 10          | -15        | -0.88   | -5.11   | -10.83  | -1.40      | 15.29      | -9.19      |
| 2520 | 3           | 10          | -10        | -0.80   | -3.30   | -11.14  | -1.28      | 15.63      | -5.66      |
| 2516 | 3           | 10          | -5         | -0.76   | -2.25   | -11.33  | -1.15      | 16.06      | -3.63      |
| 2508 | 3           | 10          | 0          | -0.70   | -1.50   | -11.46  | -0.89      | 16.57      | -2.41      |
| 2512 | 3           | 10          | 5          | -0.71   | -0.75   | -11.59  | -0.58      | 17.28      | -1.34      |
| 2541 | 3           | 10          | 10         | -0.75   | 0.21    | -11.76  | -0.18      | 18.08      | -0.12      |
| 2546 | 3           | 10          | 15         | -0.90   | 1.39    | -11.98  | 0.34       | 19.97      | 1.10       |
| 2579 | 3           | 20          | -15        | -1.05   | -9.08   | -9.00   | -2.30      | 11.55      | -16.52     |
| 2575 | 3           | 20          | -10        | -0.84   | -5.77   | -10.19  | -2.06      | 13.68      | -9.70      |
| 2571 | 3           | 20          | -5         | -0.81   | -4.29   | -10.73  | -2.00      | 14.87      | -6.78      |
| 2567 | 3           | 20          | 0          | -0.81   | -3.35   | -11.07  | -1.78      | 15.86      | -5.20      |
| 2562 | 3           | 20          | 5          | -0.82   | -2.21   | -11.48  | -1.51      | 16.91      | -3.50      |
| 2557 | 3           | 20          | 10         | -0.85   | -1.18   | -11.86  | -1.14      | 17.90      | -2.07      |
| 2558 | 3           | 20          | 10         | -0.85   | -1.16   | -11.87  | -1.08      | 17.89      | -2.05      |
| 2553 | 3           | 20          | 15         | -0.81   | -0.31   | -12.18  | -0.55      | 18.73      | -1.06      |
| 3310 | 6           | -10         | -15        | -0.26   | -0.78   | -11.90  | -0.07      | 15.27      | -0.52      |
| 3306 | 6           | -10         | -10        | -0.24   | 0.28    | -11.71  | 0.43       | 14.23      | 0.25       |
| 3302 | 6           | -10         | -5         | -0.35   | 1.43    | -11.52  | 0.91       | 13.45      | 1.03       |
| 3285 | 6           | -10         | 0          | -0.46   | 2.55    | -11.33  | 1.29       | 13.29      | 2.20       |
| 3289 | 6           | -10         | 5          | -0.45   | 3.78    | -11.11  | 1.77       | 13.34      | 3.57       |
| 3294 | 6           | -10         | 10         | -0.61   | 5.72    | -10.79  | 2.24       | 13.74      | 5.70       |
| 3298 | 6           | -10         | 15         | -0.77   | 8.79    | -10.26  | 2.91       | 14.32      | 9.43       |
| 2659 | 6           | 0           | -15        | -0.35   | -2.27   | -11.59  | -0.81      | 14.01      | -2.17      |
| 2655 | 6           | 0           | -10        | -0.32   | -1.19   | -11.59  | -0.37      | 13.45      | -1.18      |
| 2651 | 6           | 0           | -5         | -0.26   | -0.15   | -11.58  | 0.06       | 13.21      | -0.23      |
| 2616 | 6           | 0           | 0          | -0.29   | 0.71    | -11.58  | 0.35       | 13.08      | 0.39       |
| 2621 | 6           | 0           | 5          | -0.31   | 1.68    | -11.59  | 0.79       | 13.63      | 1.23       |
| 2643 | 6           | 0           | 10         | -0.36   | 2.87    | -11.59  | 1.21       | 14.34      | 2.34       |
| 2647 | 6           | 0           | 15         | -0.57   | 4.82    | -11.61  | 1.85       | 15.35      | 4.16       |
| 2689 | 6           | 10          | -15        | -0.44   | -4.56   | -10.97  | -1.62      | 12.43      | -5.05      |
| 2684 | 6           | 10          | -10        | -0.46   | -2.99   | -11.25  | -1.26      | 12.49      | -3.21      |
| 2680 | 6           | 10          | -5         | -0.46   | -1.90   | -11.45  | -0.85      | 12.82      | -2.00      |
| 2664 | 6           | 10          | 0          | -0.45   | -0.78   | -11.64  | -0.39      | 13.13      | -0.77      |
| 2668 | 6           | 10          | 5          | -0.44   | 0.16    | -11.81  | -0.08      | 13.59      | -0.17      |
| 2672 | 6           | 10          | 10         | -0.40   | 1.05    | -11.96  | 0.34       | 14.51      | 0.50       |
| 2676 | 6           | 10          | 15         | -0.39   | 1.78    | -12.09  | 0.70       | 15.03      | 1.02       |
| 2702 | 6           | 20          | -15        | -0.49   | -7.27   | -9.71   | -2.32      | 10.67      | -8.93      |
| 2696 | 6           | 20          | -10        | -0.39   | -5.24   | -10.43  | -2.07      | 11.41      | -6.10      |
| 2697 | 6           | 20          | -10        | -0.46   | -5.28   | -10.42  | -2.07      | 11.41      | -6.18      |
| 2706 | 6           | 20          | -5         | -0.46   | -3.89   | -10.93  | -1.75      | 12.04      | -4.35      |
| 2710 | 6           | 20          | 0          | -0.46   | -2.48   | -11.44  | -1.35      | 12.82      | -2.77      |
| 2714 | 6           | 20          | 5          | -0.47   | -1.09   | -11.95  | -0.89      | 13.67      | -1.38      |
| 2718 | 6           | 20          | 10         | -0.42   | -0.29   | -12.24  | -0.40      | 14.50      | -0.87      |
| 2739 | 6           | 20          | 15         | -0.38   | -0.07   | -12.31  | -0.20      | 14.65      | -0.66      |

\* Indicates model was close to heave stop

TABLE 7.123.1 - STABILITY DATA IN BODY AXES AT TRANSOM

10 deg Deadrise, L/R = 0.234, Cv = 3

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|--------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 2473   | 0           | -10         | -15        | -4.89   | -4.54   | -12.47  | -2.31      | 42.06      | -11.19     |
| 2464   | 0           | -10         | -10        | -5.37   | -3.18   | -12.23  | -1.23      | 40.02      | -8.57      |
| 2470   | 0           | -10         | -10        | -5.28   | -3.15   | -12.22  | -1.30      | 39.78      | -8.50      |
| 2460   | 0           | -10         | -5         | -4.73   | -0.87   | -11.82  | -0.13      | 33.99      | -4.17      |
| 2429   | 0           | -10         | 0          | -3.80   | 1.79    | -11.35  | 0.94       | 29.53      | 1.00       |
| 2433   | 0           | -10         | 5          | -5.79   | 6.79    | -10.47  | 1.89       | 32.07      | 9.06       |
| 2437 * | 0           | -10         | 10         | -7.94   | 20.33   | -8.08   | 4.37       | 31.98      | 36.05      |
| 2457 * | 0           | -10         | 15         | -8.41   | 32.39   | -5.96   | 5.47       | 33.79      | 60.73      |
| 2350 * | 0           | 0           | -15        | -8.96   | -24.14  | -11.49  | -5.04      | 29.98      | -65.55     |
| 2346   | 0           | 0           | -10        | -6.58   | -8.95   | -11.49  | -2.02      | 30.28      | -24.17     |
| 2342   | 0           | 0           | -5         | -4.92   | -2.92   | -11.49  | -0.87      | 28.30      | -7.83      |
| 2319   | 0           | 0           | 0          | -4.16   | -0.03   | -11.49  | 0.11       | 28.17      | -1.81      |
| 2320   | 0           | 0           | 0          | -3.98   | -0.10   | -11.49  | 0.04       | 27.86      | -1.86      |
| 2331   | 0           | 0           | 5          | -4.91   | 3.01    | -11.49  | 0.77       | 31.60      | 2.90       |
| 2332   | 0           | 0           | 5          | -4.92   | 3.01    | -11.49  | 0.79       | 31.56      | 2.88       |
| 2337 * | 0           | 0           | 10         | -7.66   | 15.95   | -11.49  | 3.63       | 36.54      | 23.47      |
| 2338 * | 0           | 0           | 10         | -7.77   | 15.95   | -11.49  | 3.68       | 36.78      | 23.38      |
| 2397 * | 0           | 10          | -10        | -8.08   | -20.12  | -8.12   | -4.20      | 11.32      | -56.83     |
| 2392   | 0           | 10          | -5         | -5.14   | -5.86   | -10.63  | -1.66      | 20.52      | -14.97     |
| 2375   | 0           | 10          | 0          | -4.07   | -2.06   | -11.30  | -0.85      | 24.27      | -4.97      |
| 2380   | 0           | 10          | 5          | -4.27   | 0.18    | -11.70  | -0.11      | 29.30      | -0.85      |
| 2384   | 0           | 10          | 10         | -4.66   | 3.38    | -12.26  | 1.20       | 34.09      | 3.59       |
| 2388   | 0           | 10          | 15         | -3.92   | 3.37    | -12.26  | 2.21       | 33.16      | 4.68       |
| 2421 * | 0           | 20          | -10        | -8.23   | -25.02  | -3.12   | -5.20      | -4.62      | -70.51     |
| 2417   | 0           | 20          | -5         | -5.07   | -9.20   | -8.88   | -2.56      | 12.18      | -23.59     |
| 2401   | 0           | 20          | 0          | -4.20   | -4.20   | -10.70  | -1.85      | 20.05      | -9.62      |
| 2405   | 0           | 20          | 5          | -3.88   | -0.91   | -11.89  | -0.96      | 24.65      | -2.33      |
| 2409   | 0           | 20          | 10         | -3.19   | 0.19    | -12.30  | -0.10      | 25.71      | -1.24      |
| 2413   | 0           | 20          | 15         | -2.55   | 0.23    | -12.31  | -0.52      | 23.01      | -1.13      |
| 2601   | 3           | -10         | -15        | -1.02   | -0.64   | -11.85  | -0.27      | 17.64      | -0.70      |
| 2597   | 3           | -10         | -10        | -1.37   | -0.24   | -11.80  | 0.18       | 21.42      | -0.33      |
| 2592   | 3           | -10         | -5         | -1.61   | 0.32    | -11.71  | 0.70       | 23.04      | 0.52       |
| 2587   | 3           | -10         | 0          | -1.95   | 2.91    | -11.27  | 1.74       | 21.57      | 2.84       |
| 2605   | 3           | -10         | 5          | -2.60   | 7.25    | -10.54  | 2.92       | 22.37      | 7.85       |
| 2609   | 3           | -10         | 10         | -3.91   | 15.60   | -9.14   | 4.74       | 25.52      | 18.89      |
| 2613 * | 3           | -10         | 15         | -6.90   | 36.02   | -5.70   | 8.56       | 33.09      | 55.44      |
| 2503   | 3           | 0           | -15        | -2.39   | -4.46   | -11.63  | -2.12      | 22.05      | -6.77      |
| 2499   | 3           | 0           | -10        | -2.10   | -2.01   | -11.62  | -1.11      | 20.94      | -3.28      |
| 2495   | 3           | 0           | -5         | -1.79   | -0.55   | -11.60  | -0.31      | 20.40      | -1.19      |
| 2479   | 3           | 0           | 0          | -1.69   | 0.81    | -11.59  | 0.50       | 20.25      | 0.27       |
| 2483   | 3           | 0           | 5          | -2.02   | 2.88    | -11.61  | 1.45       | 20.83      | 2.31       |
| 2487   | 3           | 0           | 10         | -2.43   | 6.49    | -11.63  | 2.74       | 22.82      | 5.95       |
| 2491   | 3           | 0           | 15         | -3.16   | 12.98   | -11.67  | 4.59       | 27.27      | 13.09      |

\* Indicates model was close to heave stop

TABLE 7.123.2 - STABILITY DATA IN BODY AXES AT TRANSOM

10 deg Deadrise, L/R = 0.234, Cv = 3

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 2537 | 3           | 10          | -15        | -3.97   | -17.03  | -8.89   | -3.84      | 15.35      | -34.16     |
| 2521 | 3           | 10          | -10        | -2.88   | -5.82   | -10.81  | -2.03      | 17.29      | -10.27     |
| 2517 | 3           | 10          | -5         | -2.37   | -2.27   | -11.41  | -1.18      | 17.86      | -3.45      |
| 2509 | 3           | 10          | 0          | -1.87   | -0.19   | -11.75  | -0.29      | 18.39      | -0.85      |
| 2513 | 3           | 10          | 5          | -1.51   | 0.44    | -11.84  | 0.43       | 16.79      | 0.06       |
| 2542 | 3           | 10          | 10         | -1.13   | 1.04    | -11.93  | 0.99       | 12.92      | 0.83       |
| 2547 | 3           | 10          | 15         | -0.87   | 1.19    | -11.94  | 0.96       | 9.63       | 0.77       |
| 2580 | 3           | 20          | -15        | -4.37   | -29.17  | -1.87   | -4.92      | -4.65      | -64.71     |
| 2576 | 3           | 20          | -10        | -3.00   | -9.83   | -8.83   | -2.50      | 11.73      | -18.76     |
| 2572 | 3           | 20          | -5         | -2.51   | -4.57   | -10.72  | -2.02      | 15.59      | -7.41      |
| 2568 | 3           | 20          | 0          | -2.08   | -1.58   | -11.79  | -1.16      | 16.40      | -2.44      |
| 2563 | 3           | 20          | 5          | -1.25   | -0.15   | -12.26  | -0.50      | 14.97      | -0.65      |
| 2564 | 3           | 20          | 5          | -1.22   | -0.10   | -12.27  | -0.49      | 14.98      | -0.59      |
| 2559 | 3           | 20          | 10         | -0.90   | -0.14   | -12.24  | -0.62      | 11.65      | -0.42      |
| 2554 | 3           | 20          | 15         | -0.66   | -0.59   | -12.07  | -1.06      | 9.05       | -0.48      |
| 3311 | 6           | -10         | -15        | -0.34   | -0.40   | -11.84  | -0.21      | 8.07       | -0.36      |
| 3307 | 6           | -10         | -10        | -0.50   | -0.07   | -11.80  | 0.09       | 10.29      | -0.01      |
| 3303 | 6           | -10         | -5         | -0.67   | 0.51    | -11.71  | 0.68       | 12.65      | 0.78       |
| 3286 | 6           | -10         | 0          | -1.12   | 2.36    | -11.44  | 1.53       | 13.61      | 1.67       |
| 3291 | 6           | -10         | 5          | -1.57   | 5.79    | -10.88  | 2.82       | 14.28      | 4.42       |
| 3295 | 6           | -10         | 10         | -2.00   | 12.32   | -9.77   | 4.82       | 15.76      | 10.37      |
| 3299 | 6           | -10         | 15         | -2.73   | 25.38   | -7.55   | 8.31       | 18.78      | 25.95      |
| 2660 | 6           | 0           | -15        | -0.59   | -1.03   | -11.62  | -0.85      | 10.88      | -0.87      |
| 2656 | 6           | 0           | -10        | -0.32   | -0.39   | -11.59  | -0.26      | 10.49      | -0.39      |
| 2652 | 6           | 0           | -5         | -0.39   | 0.05    | -11.59  | 0.24       | 10.18      | 0.04       |
| 2617 | 6           | 0           | 0          | -0.62   | 0.43    | -11.62  | 0.69       | 10.39      | 0.38       |
| 2618 | 6           | 0           | 0          | -0.48   | 0.46    | -11.60  | 0.69       | 10.18      | 0.45       |
| 2622 | 6           | 0           | 5          | -0.54   | 1.11    | -11.61  | 1.21       | 9.99       | 0.77       |
| 2644 | 6           | 0           | 10         | -0.68   | 2.29    | -11.62  | 1.86       | 10.07      | 1.44       |
| 2648 | 6           | 0           | 15         | -0.92   | 4.05    | -11.65  | 2.66       | 10.81      | 2.41       |
| 2690 | 6           | 10          | -15        | -1.39   | -5.13   | -10.98  | -2.12      | 13.61      | -5.08      |
| 2685 | 6           | 10          | -10        | -1.14   | -1.67   | -11.56  | -1.05      | 12.76      | -1.81      |
| 2681 | 6           | 10          | -5         | -0.98   | 0.10    | -11.85  | -0.24      | 11.53      | -0.26      |
| 2665 | 6           | 10          | 0          | -0.57   | -0.07   | -11.78  | 0.04       | 9.01       | -0.18      |
| 2669 | 6           | 10          | 5          | -0.56   | 0.35    | -11.85  | 0.44       | 6.77       | 0.27       |
| 2673 | 6           | 10          | 10         | -0.46   | 0.43    | -11.86  | 0.42       | 5.86       | 0.35       |
| 2677 | 6           | 10          | 15         | -0.37   | 0.66    | -11.89  | 0.50       | 4.78       | 0.61       |
| 2703 | 6           | 20          | -15        | -2.16   | -14.17  | -7.38   | -3.77      | 8.99       | -18.65     |
| 2698 | 6           | 20          | -10        | -1.75   | -5.69   | -10.42  | -2.32      | 12.23      | -6.83      |
| 2707 | 6           | 20          | -5         | -1.42   | -1.63   | -11.86  | -1.12      | 12.72      | -2.08      |
| 2711 | 6           | 20          | 0          | -0.97   | 0.69    | -12.66  | -0.33      | 11.04      | 0.15       |
| 2715 | 6           | 20          | 5          | -0.63   | -0.24   | -12.28  | -0.54      | 7.71       | 0.03       |
| 2719 | 6           | 20          | 10         | -0.37   | -0.65   | -12.10  | -0.84      | 6.40       | -0.15      |
| 2740 | 6           | 20          | 15         | -0.30   | -0.83   | -12.03  | -1.06      | 5.32       | -0.02      |

\* Indicates model was close to heave stop



TABLE 7.124.1 - STABILITY DATA IN BODY AXES AT TRANSOM

10 deg Deadrise, L/R = 0.234, Cv = 4

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|--------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 2474   | 0           | -10         | -15        | -5.11   | -5.16   | -12.58  | -3.38      | 47.35      | -12.46     |
| 2468   | 0           | -10         | -10        | -8.13   | -4.77   | -12.51  | -2.46      | 55.07      | -14.10     |
| 2469   | 0           | -10         | -10        | -8.24   | -4.88   | -12.53  | -2.53      | 55.32      | -14.31     |
| 2461   | 0           | -10         | -5         | -7.31   | -2.13   | -12.04  | -1.00      | 48.43      | -7.30      |
| 2430   | 0           | -10         | 0          | -5.92   | 1.00    | -11.49  | 0.59       | 38.03      | -0.95      |
| 2434   | 0           | -10         | 5          | -10.68  | 13.11   | -9.36   | 3.67       | 40.09      | 16.18      |
| 2352   | 0           | 0           | -15        | -14.46  | -37.24  | -11.49  | -7.24      | 38.41      | -105.13    |
| 2347   | 0           | 0           | -10        | -10.15  | -12.88  | -11.49  | -2.90      | 39.76      | -36.61     |
| 2343   | 0           | 0           | -5         | -7.95   | -4.10   | -11.49  | -1.42      | 37.42      | -12.02     |
| 2322   | 0           | 0           | 0          | -5.88   | -0.32   | -11.49  | 0.17       | 34.77      | -3.02      |
| 2323   | 0           | 0           | 0          | -5.89   | -0.21   | -11.49  | 0.31       | 35.18      | -2.83      |
| 2324   | 0           | 0           | 0          | -5.67   | -0.19   | -11.49  | 0.19       | 34.80      | -2.73      |
| 2326   | 0           | 0           | 0          | -5.86   | -0.21   | -11.49  | 0.17       | 34.92      | -2.86      |
| 2327   | 0           | 0           | 0          | -6.05   | -0.31   | -11.49  | 0.16       | 34.95      | -3.03      |
| 2328   | 0           | 0           | 0          | -5.79   | -0.42   | -11.49  | 0.07       | 34.88      | -3.16      |
| 2333   | 0           | 0           | 5          | -7.77   | 5.41    | -11.49  | 1.62       | 40.07      | 4.05       |
| 2339 * | 0           | 0           | 10         | -11.79  | 25.04   | -11.49  | 6.40       | 46.80      | 35.50      |
| 2394   | 0           | 10          | -5         | -8.61   | -8.55   | -10.16  | -2.09      | 22.88      | -25.12     |
| 2376   | 0           | 10          | 0          | -6.43   | -1.64   | -11.38  | -0.48      | 27.69      | -5.05      |
| 2377   | 0           | 10          | 0          | -6.57   | -1.65   | -11.38  | -0.56      | 28.15      | -5.11      |
| 2381   | 0           | 10          | 5          | -6.62   | 1.59    | -11.95  | 0.78       | 36.31      | 0.32       |
| 2385   | 0           | 10          | 10         | -5.30   | 3.31    | -12.25  | 2.29       | 37.28      | 3.73       |
| 2389   | 0           | 10          | 15         | -3.51   | 3.41    | -12.27  | 2.78       | 29.39      | 4.69       |
| 2418   | 0           | 20          | -5         | -8.75   | -13.74  | -7.23   | -3.02      | 6.30       | -40.79     |
| 2402   | 0           | 20          | 0          | -6.81   | -3.73   | -10.87  | -1.43      | 21.64      | -11.24     |
| 2406   | 0           | 20          | 5          | -5.56   | 1.57    | -12.80  | 0.02       | 27.30      | 1.91       |
| 2410   | 0           | 20          | 10         | -3.64   | 1.03    | -12.60  | -0.37      | 24.41      | 0.41       |
| 2414   | 0           | 20          | 15         | -1.98   | -0.56   | -12.02  | -1.66      | 18.02      | -1.23      |
| 2602   | 3           | -10         | -15        | -0.78   | -1.11   | -11.92  | -0.34      | 11.27      | -1.03      |
| 2598   | 3           | -10         | -10        | -1.30   | -0.59   | -11.86  | 0.10       | 17.73      | -0.61      |
| 2593   | 3           | -10         | -5         | -1.95   | -0.04   | -11.79  | 0.71       | 24.79      | 0.07       |
| 2588   | 3           | -10         | 0          | -2.52   | 3.26    | -11.24  | 2.17       | 24.67      | 2.93       |
| 2606   | 3           | -10         | 5          | -3.86   | 10.97   | -9.95   | 4.38       | 26.67      | 11.35      |
| 2610   | 3           | -10         | 10         | -5.90   | 24.75   | -7.63   | 7.40       | 32.30      | 29.49      |
| 2504   | 3           | 0           | -15        | -3.41   | -5.28   | -11.68  | -2.88      | 23.31      | -8.06      |
| 2500   | 3           | 0           | -10        | -2.95   | -1.57   | -11.66  | -1.27      | 22.24      | -3.37      |
| 2496   | 3           | 0           | -5         | -2.41   | -0.10   | -11.63  | -0.24      | 22.40      | -0.94      |
| 2480   | 3           | 0           | 0          | -2.14   | 1.12    | -11.62  | 0.87       | 21.04      | 0.70       |
| 2484   | 3           | 0           | 5          | -2.49   | 3.94    | -11.64  | 2.25       | 20.48      | 3.23       |
| 2488   | 3           | 0           | 10         | -3.02   | 8.18    | -11.66  | 3.93       | 22.39      | 7.12       |
| 2492   | 3           | 0           | 15         | -3.67   | 15.62   | -11.70  | 6.26       | 27.07      | 14.12      |

\* Indicates model was close to heave stop

TABLE 7.124.2 - STABILITY DATA IN BODY AXES AT TRANSOM

10 deg Deadrise, L/R = 0.234, Cv = 4

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 2538 | 3           | 10          | -15        | -6.33   | -28.48  | -7.00   | -6.41      | 16.31      | -59.28     |
| 2522 | 3           | 10          | -10        | -4.80   | -7.62   | -10.60  | -2.45      | 20.06      | -16.44     |
| 2518 | 3           | 10          | -5         | -3.80   | -0.66   | -11.77  | -0.73      | 20.57      | -2.61      |
| 2510 | 3           | 10          | 0          | -2.04   | 0.68    | -11.91  | 0.24       | 16.53      | 0.62       |
| 2514 | 3           | 10          | 5          | -1.18   | 1.34    | -11.98  | 0.97       | 9.96       | 1.38       |
| 2543 | 3           | 10          | 10         | -0.80   | 1.53    | -12.00  | 0.90       | 6.54       | 1.56       |
| 2544 | 3           | 10          | 10         | -0.73   | 1.38    | -11.97  | 0.79       | 6.85       | 1.40       |
| 2548 | 3           | 10          | 15         | -0.64   | 1.48    | -11.98  | 0.63       | 5.19       | 1.59       |
| 2549 | 3           | 10          | 15         | -0.64   | 1.44    | -11.97  | 0.60       | 5.11       | 1.46       |
| 2577 | 3           | 20          | -10        | -4.74   | -14.13  | -7.37   | -2.87      | 9.74       | -30.45     |
| 2573 | 3           | 20          | -5         | -3.94   | -3.63   | -11.14  | -1.72      | 17.08      | -8.01      |
| 2569 | 3           | 20          | 0          | -2.89   | 0.87    | -12.72  | -0.45      | 16.46      | 0.43       |
| 2565 | 3           | 20          | 5          | -0.95   | -0.10   | -12.26  | -0.81      | 10.74      | 0.16       |
| 2560 | 3           | 20          | 10         | -0.53   | -0.43   | -12.12  | -1.29      | 6.42       | 0.71       |
| 2555 | 3           | 20          | 15         | -0.21   | -1.13   | -11.85  | -1.80      | 4.31       | 0.61       |
| 3312 | 6           | -10         | -15        | -0.31   | -0.59   | -11.87  | -0.02      | 1.47       | -1.18      |
| 3308 | 6           | -10         | -10        | -0.29   | -0.04   | -11.77  | 0.30       | 3.68       | -0.41      |
| 3304 | 6           | -10         | -5         | -0.64   | 0.49    | -11.71  | 0.87       | 6.84       | 0.43       |
| 3287 | 6           | -10         | 0          | -1.48   | 2.25    | -11.49  | 1.83       | 9.98       | 1.32       |
| 3292 | 6           | -10         | 5          | -1.97   | 6.64    | -10.77  | 3.48       | 11.89      | 4.46       |
| 3296 | 6           | -10         | 10         | -2.61   | 15.49   | -9.28   | 6.18       | 15.01      | 11.52      |
| 2661 | 6           | 0           | -15        | -0.07   | -0.77   | -11.56  | -0.77      | 4.08       | -0.30      |
| 2657 | 6           | 0           | -10        | -0.19   | -0.14   | -11.57  | -0.08      | 3.31       | 0.27       |
| 2653 | 6           | 0           | -5         | -0.22   | 0.32    | -11.58  | 0.43       | 3.07       | 0.53       |
| 2619 | 6           | 0           | 0          | -0.35   | 0.80    | -11.59  | 1.03       | 2.88       | 0.72       |
| 2623 | 6           | 0           | 5          | -0.29   | 1.35    | -11.58  | 1.64       | 2.67       | 1.13       |
| 2645 | 6           | 0           | 10         | -0.36   | 2.25    | -11.59  | 2.38       | 2.80       | 1.57       |
| 2649 | 6           | 0           | 15         | -0.55   | 3.16    | -11.61  | 3.08       | 3.51       | 1.91       |
| 2691 | 6           | 10          | -15        | -1.69   | -5.50   | -10.94  | -2.53      | 11.22      | -4.24      |
| 2743 | 6           | 10          | -15        | -1.70   | -5.29   | -10.98  | -2.47      | 11.35      | -4.00      |
| 2686 | 6           | 10          | -10        | -1.26   | -0.85   | -11.72  | -0.91      | 8.88       | -0.45      |
| 2687 | 6           | 10          | -10        | -1.33   | -0.80   | -11.73  | -0.87      | 8.92       | -0.35      |
| 2682 | 6           | 10          | -5         | -0.64   | 0.23    | -11.84  | -0.16      | 5.42       | 0.65       |
| 2666 | 6           | 10          | 0          | -0.10   | 0.18    | -11.77  | -0.07      | 2.98       | 0.84       |
| 2670 | 6           | 10          | 5          | -0.15   | 0.36    | -11.81  | 0.01       | 2.08       | 1.07       |
| 2674 | 6           | 10          | 10         | -0.23   | 0.67    | -11.87  | 0.11       | 0.82       | 1.43       |
| 2678 | 6           | 10          | 15         | 0.01    | 0.61    | -11.84  | 0.02       | 0.68       | 1.27       |
| 2704 | 6           | 20          | -15        | -3.39   | -21.63  | -4.80   | -5.40      | 6.32       | -28.80     |
| 2699 | 6           | 20          | -10        | -2.36   | -5.73   | -10.47  | -2.38      | 11.06      | -5.96      |
| 2700 | 6           | 20          | -10        | -2.45   | -5.63   | -10.52  | -2.38      | 11.08      | -5.96      |
| 2708 | 6           | 20          | -5         | -1.59   | 0.23    | -12.56  | -0.68      | 10.16      | 0.21       |
| 2712 | 6           | 20          | 0          | -0.96   | 1.85    | -13.08  | -0.35      | 7.48       | 1.71       |
| 2716 | 6           | 20          | 5          | -0.30   | -0.21   | -12.25  | -1.05      | 3.01       | 1.62       |
| 2737 | 6           | 20          | 5          | -0.10   | -0.52   | -12.12  | -1.14      | 3.53       | 0.98       |
| 2736 | 6           | 20          | 10         | 0.04    | -0.74   | -12.02  | -1.50      | 1.68       | 1.44       |
| 2741 | 6           | 20          | 15         | 0.12    | -1.20   | -11.85  | -1.62      | 1.37       | 1.14       |

\* Indicates model was close to heave stop

TABLE 7.200.1 - STABILITY DATA IN BODY AXES AT TRANSOM

20 deg Deadrise, L/R = 0.000, Cv = 0

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 1708 | -2          | -10         | 0          | -0.46   | 1.95    | -11.31  | 1.06       | 21.39      | 3.66       |
| 1712 | -2          | -10         | 5          | -0.43   | 1.99    | -11.31  | 1.14       | 21.35      | 3.74       |
| 1715 | -2          | -10         | 10         | -0.42   | 1.95    | -11.31  | 1.10       | 21.39      | 3.68       |
| 1717 | -2          | -10         | 15         | -0.42   | 1.96    | -11.31  | 1.08       | 21.37      | 3.67       |
| 1644 | -2          | 0           | 0          | -0.43   | -0.04   | -11.48  | -0.03      | 21.91      | -0.05      |
| 1649 | -2          | 0           | 5          | -0.43   | -0.02   | -11.48  | -0.02      | 21.87      | -0.03      |
| 1652 | -2          | 0           | 10         | -0.44   | -0.03   | -11.48  | -0.02      | 21.84      | -0.05      |
| 1655 | -2          | 0           | 15         | -0.45   | -0.04   | -11.48  | -0.02      | 21.79      | -0.07      |
| 1659 | -2          | 10          | 0          | -0.44   | -2.04   | -11.30  | -1.16      | 21.22      | -3.76      |
| 1663 | -2          | 10          | 5          | -0.43   | -2.01   | -11.30  | -1.14      | 21.20      | -3.71      |
| 1682 | -2          | 10          | 10         | -0.44   | -2.08   | -11.29  | -1.21      | 21.20      | -3.86      |
| 1687 | -2          | 10          | 15         | -0.44   | -2.01   | -11.30  | -1.13      | 21.12      | -3.72      |
| 1691 | -2          | 20          | 0          | -0.44   | -3.96   | -10.78  | -1.96      | 19.92      | -7.23      |
| 1695 | -2          | 20          | 5          | -0.45   | -3.97   | -10.77  | -1.95      | 19.97      | -7.27      |
| 1700 | -2          | 20          | 10         | -0.43   | -3.96   | -10.78  | -1.95      | 19.94      | -7.25      |
| 1702 | -2          | 20          | 15         | -0.43   | -3.93   | -10.79  | -1.85      | 19.96      | -7.17      |
| 1626 | 0           | -10         | 0          | 0.00    | 1.99    | -11.32  | 1.10       | 17.22      | 3.05       |
| 1630 | 0           | -10         | 5          | 0.01    | 2.01    | -11.31  | 1.14       | 17.22      | 3.07       |
| 1634 | 0           | -10         | 10         | 0.00    | 2.01    | -11.31  | 1.12       | 17.23      | 3.08       |
| 1638 | 0           | -10         | 15         | 0.00    | 2.01    | -11.31  | 1.14       | 17.14      | 3.07       |
| 1558 | 0           | 0           | 0          | 0.00    | -0.02   | -11.49  | -0.03      | 17.38      | 0.00       |
| 1563 | 0           | 0           | 5          | 0.00    | 0.00    | -11.49  | 0.01       | 17.35      | 0.02       |
| 1567 | 0           | 0           | 10         | -0.01   | 0.00    | -11.49  | 0.00       | 17.44      | 0.02       |
| 1571 | 0           | 0           | 15         | -0.01   | 0.00    | -11.49  | 0.00       | 17.36      | 0.03       |
| 1578 | 0           | 10          | 0          | -0.02   | -2.01   | -11.31  | -1.18      | 17.02      | -3.01      |
| 1581 | 0           | 10          | 5          | -0.01   | -2.00   | -11.32  | -1.14      | 17.00      | -2.96      |
| 1587 | 0           | 10          | 10         | 0.00    | -1.99   | -11.32  | -1.15      | 17.09      | -2.97      |
| 1590 | 0           | 10          | 15         | 0.01    | -1.98   | -11.32  | -1.13      | 17.08      | -2.94      |
| 1606 | 0           | 20          | 0          | 0.00    | -3.96   | -10.79  | -1.96      | 16.28      | -5.95      |
| 1610 | 0           | 20          | 5          | -0.01   | -3.93   | -10.80  | -1.96      | 16.26      | -5.91      |
| 1614 | 0           | 20          | 10         | 0.00    | -3.93   | -10.80  | -1.95      | 16.26      | -5.90      |
| 1618 | 0           | 20          | 15         | 0.00    | -3.93   | -10.80  | -1.95      | 16.24      | -5.88      |
| 1396 | 3           | -10         | 0          | 0.59    | 2.02    | -11.30  | 1.06       | 11.99      | 2.25       |
| 1392 | 3           | -10         | 5          | 0.60    | 2.03    | -11.29  | 1.06       | 12.00      | 2.28       |
| 1389 | 3           | -10         | 10         | 0.60    | 2.02    | -11.29  | 1.04       | 11.94      | 2.25       |
| 1383 | 3           | -10         | 15         | 0.63    | 2.01    | -11.29  | 1.02       | 12.01      | 2.26       |
| 1401 | 3           | 0           | 0          | 0.59    | 0.04    | -11.47  | 0.01       | 11.82      | 0.11       |
| 1404 | 3           | 0           | 0          | 0.59    | 0.05    | -11.47  | 0.03       | 11.83      | 0.13       |
| 1408 | 3           | 0           | 5          | 0.59    | 0.03    | -11.47  | -0.01      | 11.90      | 0.11       |
| 1412 | 3           | 0           | 10         | 0.60    | 0.04    | -11.47  | 0.01       | 11.93      | 0.10       |
| 1416 | 3           | 0           | 15         | 0.60    | 0.04    | -11.47  | 0.01       | 11.91      | 0.10       |

\* Indicates model was close to heave stop

TABLE 7.200.2 - STABILITY DATA IN BODY AXES AT TRANSOM

20 deg Deadrise, L/R = 0.000, Cv = 0

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 1435 | 3           | 10          | 0          | 0.60    | -2.00   | -11.30  | -1.08      | 12.02      | -2.15      |
| 1441 | 3           | 10          | 5          | 0.61    | -1.97   | -11.30  | -1.05      | 11.92      | -2.08      |
| 1444 | 3           | 10          | 10         | 0.60    | -1.96   | -11.31  | -1.06      | 11.99      | -2.06      |
| 1448 | 3           | 10          | 15         | 0.61    | -1.96   | -11.30  | -1.06      | 12.00      | -2.08      |
| 1456 | 3           | 20          | 0          | 0.65    | -3.89   | -10.79  | -1.89      | 11.66      | -4.19      |
| 1460 | 3           | 20          | 5          | 0.59    | -3.92   | -10.78  | -1.93      | 11.67      | -4.31      |
| 1464 | 3           | 20          | 10         | 0.60    | -3.91   | -10.79  | -1.92      | 11.66      | -4.28      |
| 1468 | 3           | 20          | 15         | 0.60    | -3.91   | -10.79  | -1.92      | 11.67      | -4.28      |
| 1540 | 6           | -10         | 0          | 1.21    | 2.04    | -11.24  | 0.97       | 8.65       | 1.79       |
| 1544 | 6           | -10         | 5          | 1.20    | 2.03    | -11.24  | 0.96       | 8.87       | 1.79       |
| 1548 | 6           | -10         | 10         | 1.21    | 2.05    | -11.24  | 0.96       | 8.78       | 1.83       |
| 1552 | 6           | -10         | 15         | 1.22    | 2.04    | -11.24  | 0.95       | 8.72       | 1.80       |
| 1475 | 6           | 0           | 0          | 1.20    | 0.04    | -11.43  | -0.00      | 8.68       | 0.13       |
| 1479 | 6           | 0           | 5          | 1.22    | 0.09    | -11.42  | 0.06       | 8.70       | 0.22       |
| 1483 | 6           | 0           | 10         | 1.21    | 0.06    | -11.43  | 0.02       | 8.81       | 0.15       |
| 1487 | 6           | 0           | 15         | 1.22    | 0.09    | -11.42  | 0.03       | 8.56       | 0.21       |
| 1493 | 6           | 10          | 0          | 1.19    | -1.94   | -11.26  | -0.94      | 8.62       | -1.47      |
| 1497 | 6           | 10          | 5          | 1.20    | -1.91   | -11.27  | -0.91      | 8.68       | -1.43      |
| 1501 | 6           | 10          | 10         | 1.21    | -1.90   | -11.27  | -0.92      | 8.67       | -1.40      |
| 1505 | 6           | 10          | 15         | 1.22    | -1.91   | -11.26  | -0.93      | 8.74       | -1.46      |
| 1521 | 6           | 20          | 0          | 1.23    | -3.86   | -10.75  | -1.80      | 8.59       | -3.17      |
| 1526 | 6           | 20          | 5          | 1.20    | -3.86   | -10.76  | -1.82      | 8.51       | -3.16      |
| 1529 | 6           | 20          | 10         | 1.20    | -3.86   | -10.76  | -1.82      | 8.62       | -3.20      |
| 1533 | 6           | 20          | 15         | 1.21    | -3.87   | -10.75  | -1.83      | 8.61       | -3.22      |

\* Indicates model was close to heave stop

TABLE 7.201.1 - STABILITY DATA IN BODY AXES AT TRANSOM

20 deg Deadrise, L/R = 0.000, Cv = 1.5

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|--------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 1709   | -2          | -10         | 0          | -1.84   | 2.07    | -11.24  | 0.95       | 25.21      | 4.71       |
| 1713   | -2          | -10         | 5          | -1.96   | 3.18    | -11.04  | 1.37       | 24.80      | 8.62       |
| 1716 * | -2          | -10         | 10         | -2.26   | 5.34    | -10.65  | 1.82       | 24.46      | 15.88      |
| 1718 * | -2          | -10         | 15         | -2.46   | 8.88    | -10.02  | 2.66       | 24.11      | 26.50      |
| 1645   | -2          | 0           | 0          | -1.87   | -0.02   | -11.43  | 0.04       | 26.02      | 0.02       |
| 1648   | -2          | 0           | 5          | -1.97   | 0.99    | -11.43  | 0.30       | 26.23      | 3.49       |
| 1653   | -2          | 0           | 10         | -2.41   | 3.19    | -11.41  | 0.82       | 26.83      | 10.37      |
| 1656 * | -2          | 0           | 15         | -2.96   | 7.36    | -11.39  | 2.04       | 28.44      | 22.84      |
| 1660   | -2          | 10          | 0          | -1.83   | -2.09   | -11.24  | -0.94      | 25.14      | -4.69      |
| 1664   | -2          | 10          | 5          | -1.87   | -1.24   | -11.39  | -0.77      | 26.04      | -1.76      |
| 1681   | -2          | 10          | 5          | -1.87   | -1.21   | -11.39  | -0.78      | 26.04      | -1.65      |
| 1683   | -2          | 10          | 10         | -2.21   | 0.45    | -11.68  | -0.28      | 27.88      | 3.52       |
| 1686 * | -2          | 10          | 15         | -2.82   | 4.12    | -12.30  | 0.83       | 31.29      | 14.35      |
| 1692   | -2          | 20          | 0          | -1.78   | -4.09   | -10.68  | -1.86      | 23.26      | -8.98      |
| 1696   | -2          | 20          | 5          | -1.80   | -3.23   | -10.99  | -1.55      | 24.77      | -6.03      |
| 1699   | -2          | 20          | 10         | -1.91   | -1.76   | -11.52  | -1.11      | 27.53      | -1.66      |
| 1703 * | -2          | 20          | 15         | -2.47   | 1.36    | -12.64  | -0.35      | 31.95      | 7.42       |
| 1627   | 0           | -10         | 0          | -1.21   | 2.08    | -11.30  | 1.12       | 21.43      | 4.10       |
| 1631   | 0           | -10         | 5          | -1.30   | 2.96    | -11.14  | 1.42       | 21.12      | 6.69       |
| 1635   | 0           | -10         | 10         | -1.60   | 4.71    | -10.84  | 1.84       | 21.04      | 11.63      |
| 1639 * | 0           | -10         | 15         | -2.08   | 8.47    | -10.17  | 2.79       | 21.11      | 21.84      |
| 1560   | 0           | 0           | 0          | -1.22   | 0.02    | -11.49  | 0.02       | 21.95      | 0.07       |
| 1564   | 0           | 0           | 5          | -1.32   | 0.77    | -11.49  | 0.32       | 22.02      | 2.38       |
| 1568   | 0           | 0           | 10         | -1.54   | 2.08    | -11.49  | 0.72       | 22.89      | 6.15       |
| 1572 * | 0           | 0           | 15         | -2.00   | 5.42    | -11.49  | 1.55       | 24.41      | 15.01      |
| 1577   | 0           | 10          | 0          | -1.21   | -2.08   | -11.30  | -1.14      | 21.31      | -4.04      |
| 1582   | 0           | 10          | 5          | -1.29   | -1.38   | -11.42  | -0.87      | 22.03      | -1.78      |
| 1586   | 0           | 10          | 10         | -1.50   | -0.15   | -11.64  | -0.41      | 23.53      | 1.62       |
| 1591   | 0           | 10          | 15         | -1.86   | 2.32    | -12.08  | 0.43       | 26.17      | 7.86       |
| 1607   | 0           | 20          | 0          | -1.18   | -4.14   | -10.72  | -1.93      | 19.89      | -7.93      |
| 1611   | 0           | 20          | 5          | -1.17   | -3.42   | -10.98  | -1.77      | 20.97      | -5.94      |
| 1615   | 0           | 20          | 10         | -1.31   | -2.22   | -11.42  | -1.37      | 22.94      | -2.92      |
| 1619   | 0           | 20          | 15         | -1.65   | -0.19   | -12.16  | -0.60      | 26.40      | 2.00       |
| 1397   | 3           | -10         | 0          | -0.69   | 2.18    | -11.34  | 1.23       | 16.16      | 3.17       |
| 1393   | 3           | -10         | 5          | -0.74   | 2.98    | -11.20  | 1.52       | 16.18      | 4.62       |
| 1390   | 3           | -10         | 10         | -0.93   | 4.40    | -10.96  | 1.90       | 16.55      | 7.25       |
| 1405   | 3           | 0           | 0          | -0.55   | 0.09    | -11.53  | 0.10       | 16.20      | 0.18       |
| 1409   | 3           | 0           | 5          | -0.71   | 0.83    | -11.54  | 0.40       | 16.43      | 1.52       |
| 1413   | 3           | 0           | 10         | -0.83   | 2.01    | -11.55  | 0.88       | 17.10      | 3.58       |
| 1417   | 3           | 0           | 15         | -1.12   | 4.60    | -11.56  | 1.77       | 18.63      | 8.14       |

\* Indicates model was close to heave stop

TABLE 7.201.2 - STABILITY DATA IN BODY AXES AT TRANSOM

20 deg Deadrise, L/R = 0.000, Cv = 1.5

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 1436 | 3           | 10          | 0          | -0.67   | -2.08   | -11.35  | -1.17      | 16.17      | -2.95      |
| 1440 | 3           | 10          | 5          | -0.67   | -1.28   | -11.49  | -0.84      | 16.60      | -1.64      |
| 1445 | 3           | 10          | 10         | -0.75   | -0.10   | -11.70  | -0.24      | 17.80      | 0.16       |
| 1449 | 3           | 10          | 15         | -0.91   | 1.54    | -12.00  | 0.50       | 19.77      | 2.81       |
| 1457 | 3           | 20          | 0          | -0.64   | -3.91   | -10.86  | -1.90      | 15.61      | -5.45      |
| 1461 | 3           | 20          | 5          | -0.72   | -3.11   | -11.15  | -1.71      | 16.35      | -4.32      |
| 1465 | 3           | 20          | 10         | -0.78   | -1.84   | -11.62  | -1.24      | 17.81      | -2.78      |
| 1469 | 3           | 20          | 15         | -0.86   | -0.54   | -12.09  | -0.61      | 20.01      | -1.23      |
| 1541 | 6           | -10         | 0          | -0.37   | 1.90    | -11.44  | 1.02       | 12.74      | 2.13       |
| 1545 | 6           | -10         | 5          | -0.44   | 2.98    | -11.25  | 1.45       | 12.68      | 3.23       |
| 1549 | 6           | -10         | 10         | -0.53   | 4.36    | -11.02  | 1.95       | 12.96      | 4.83       |
| 1553 | 6           | -10         | 15         | -0.70   | 6.87    | -10.60  | 2.73       | 13.35      | 7.81       |
| 1476 | 6           | 0           | 0          | -0.29   | 0.04    | -11.58  | 0.02       | 12.74      | 0.11       |
| 1480 | 6           | 0           | 5          | -0.38   | 1.13    | -11.59  | 0.55       | 12.87      | 1.26       |
| 1484 | 6           | 0           | 10         | -0.48   | 2.25    | -11.60  | 1.01       | 13.33      | 2.43       |
| 1488 | 6           | 0           | 15         | -0.57   | 3.97    | -11.61  | 1.67       | 14.08      | 4.31       |
| 1494 | 6           | 10          | 0          | -0.40   | -1.71   | -11.47  | -0.90      | 12.70      | -1.71      |
| 1498 | 6           | 10          | 5          | -0.39   | -0.61   | -11.67  | -0.41      | 13.12      | -0.68      |
| 1502 | 6           | 10          | 10         | -0.42   | 0.53    | -11.87  | 0.11       | 13.95      | 0.28       |
| 1506 | 6           | 10          | 15         | -0.49   | 1.70    | -12.08  | 0.64       | 14.82      | 1.46       |
| 1522 | 6           | 20          | 0          | -0.48   | -3.67   | -11.01  | -1.80      | 12.60      | -3.84      |
| 1525 | 6           | 20          | 5          | -0.55   | -2.45   | -11.46  | -1.34      | 13.16      | -2.67      |
| 1530 | 6           | 20          | 10         | -0.50   | -1.10   | -11.95  | -0.78      | 14.14      | -1.55      |
| 1534 | 6           | 20          | 15         | -0.41   | -0.16   | -12.28  | -0.30      | 15.12      | -0.88      |

\* Indicates model was close to heave stop

TABLE 7.203.1 - STABILITY DATA IN BODY AXES AT TRANSOM

20 deg Deadrise, L/R = 0.000, Cv = 3

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|--------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 1710   | -2          | -10         | 0          | -6.66   | 3.63    | -10.80  | 1.85       | 23.49      | 8.58       |
| 1714 * | -2          | -10         | 5          | -6.97   | 10.21   | -9.63   | 4.01       | 21.10      | 30.55      |
| 1646   | -2          | 0           | 0          | -6.36   | 0.22    | -11.28  | 0.20       | 23.67      | 0.55       |
| 1650 * | -2          | 0           | 5          | -6.80   | 5.83    | -11.26  | 1.72       | 24.69      | 18.90      |
| 1654 * | -2          | 0           | 10         | -7.75   | 18.44   | -11.23  | 5.43       | 28.54      | 53.87      |
| 1721 * | -2          | 0           | 10         | -7.88   | 21.16   | -11.22  | 6.46       | 28.42      | 61.59      |
| 1661   | -2          | 10          | 0          | -6.26   | -3.21   | -10.89  | -1.36      | 23.62      | -7.46      |
| 1665   | -2          | 10          | 5          | -6.68   | 1.68    | -11.73  | -0.20      | 27.90      | 8.37       |
| 1680   | -2          | 10          | 5          | -6.64   | 1.78    | -11.75  | 0.10       | 27.97      | 8.92       |
| 1684 * | -2          | 10          | 10         | -7.43   | 11.90   | -13.51  | 3.15       | 35.10      | 36.10      |
| 1688 * | -2          | 10          | 15         | -8.77   | 24.49   | -15.68  | 8.44       | 42.18      | 66.84      |
| 1693   | -2          | 20          | 0          | -4.98   | -4.04   | -10.58  | -1.61      | 23.68      | -8.38      |
| 1697   | -2          | 20          | 5          | -5.00   | 0.24    | -12.14  | -0.26      | 30.03      | 5.73       |
| 1701 * | -2          | 20          | 10         | -8.21   | 7.13    | -14.53  | 1.81       | 42.40      | 21.16      |
| 1628   | 0           | -10         | 0          | -3.63   | 2.32    | -11.26  | 1.11       | 25.18      | 5.66       |
| 1632   | 0           | -10         | 5          | -4.45   | 6.58    | -10.51  | 2.44       | 23.47      | 15.27      |
| 1636 * | 0           | -10         | 10         | -7.06   | 21.03   | -7.96   | 6.43       | 21.77      | 50.67      |
| 1640 * | 0           | -10         | 15         | -7.31   | 34.71   | -5.55   | 10.51      | 17.08      | 85.15      |
| 1561   | 0           | 0           | 0          | -3.75   | 0.12    | -11.49  | 0.09       | 27.89      | 0.19       |
| 1565   | 0           | 0           | 5          | -4.23   | 3.41    | -11.49  | 1.43       | 28.39      | 9.01       |
| 1569 * | 0           | 0           | 10         | -6.57   | 14.44   | -11.49  | 4.59       | 31.26      | 32.70      |
| 1573 * | 0           | 0           | 15         | -8.57   | 38.91   | -11.49  | 12.49      | 29.99      | 97.86      |
| 1579   | 0           | 10          | 0          | -3.56   | -2.19   | -11.28  | -1.00      | 25.13      | -5.33      |
| 1583   | 0           | 10          | 5          | -3.85   | 0.85    | -11.82  | 0.37       | 30.02      | 2.50       |
| 1588   | 0           | 10          | 10         | -5.14   | 6.53    | -12.82  | 2.57       | 36.68      | 16.10      |
| 1592 * | 0           | 10          | 15         | -10.18  | 33.26   | -17.53  | 11.76      | 49.20      | 79.06      |
| 1608   | 0           | 20          | 0          | -3.47   | -4.31   | -10.66  | -1.85      | 21.80      | -9.58      |
| 1612   | 0           | 20          | 5          | -3.47   | -1.53   | -11.67  | -0.82      | 28.28      | -4.28      |
| 1616   | 0           | 20          | 10         | -3.45   | 0.90    | -12.55  | 0.31       | 32.64      | 1.02       |
| 1620   | 0           | 20          | 15         | -2.99   | 3.11    | -13.36  | 1.04       | 32.04      | 4.70       |
| 1398   | 3           | -10         | 0          | -1.82   | 1.81    | -11.46  | 1.15       | 18.73      | 3.33       |
| 1394   | 3           | -10         | 5          | -2.28   | 4.50    | -11.01  | 2.26       | 18.69      | 6.99       |
| 1391   | 3           | -10         | 10         | -3.16   | 10.49   | -10.00  | 4.29       | 20.39      | 16.31      |
| 1400   | 3           | -10         | 13         | -4.28   | 19.14   | -8.54   | 7.08       | 22.14      | 32.55      |
| 1388   | 3           | -10         | 15         | -5.35   | 29.24   | -6.81   | 10.15      | 21.39      | 54.11      |
| 1406   | 3           | 0           | 0          | -1.60   | 0.14    | -11.59  | 0.09       | 18.35      | 0.31       |
| 1410   | 3           | 0           | 5          | -1.87   | 2.10    | -11.60  | 1.10       | 18.78      | 3.34       |
| 1414   | 3           | 0           | 10         | -2.39   | 5.46    | -11.63  | 2.70       | 20.66      | 8.26       |
| 1418   | 3           | 0           | 15         | -3.65   | 14.89   | -11.70  | 6.22       | 26.52      | 23.91      |

\* Indicates model was close to heave stop

TABLE 7.203.2 - STABILITY DATA IN BODY AXES AT TRANSOM

20 deg Deadrise, L/R = 0.000, Cv = 3

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 1437 | 3           | 10          | 0          | -1.79   | -1.49   | -11.52  | -1.02      | 18.64      | -2.87      |
| 1442 | 3           | 10          | 5          | -1.58   | 0.15    | -11.79  | -0.06      | 18.11      | -0.23      |
| 1446 | 3           | 10          | 10         | -1.59   | 2.01    | -12.12  | 0.98       | 17.88      | 2.42       |
| 1450 | 3           | 10          | 15         | -1.60   | 4.43    | -12.55  | 2.31       | 18.19      | 5.52       |
| 1458 | 3           | 20          | 0          | -1.99   | -3.55   | -11.06  | -2.01      | 18.43      | -5.61      |
| 1462 | 3           | 20          | 5          | -1.67   | -1.38   | -11.83  | -1.03      | 18.89      | -3.17      |
| 1466 | 3           | 20          | 10         | -1.34   | -0.11   | -12.28  | -0.41      | 16.49      | -1.40      |
| 1470 | 3           | 20          | 15         | -1.10   | 0.97    | -12.66  | 0.08       | 14.14      | -0.16      |
| 1542 | 6           | -10         | 0          | -0.82   | 1.30    | -11.59  | 0.85       | 11.80      | 1.85       |
| 1546 | 6           | -10         | 5          | -1.14   | 3.20    | -11.29  | 1.79       | 13.21      | 3.43       |
| 1550 | 6           | -10         | 10         | -1.51   | 7.10    | -10.64  | 3.41       | 14.21      | 6.96       |
| 1554 | 6           | -10         | 15         | -2.06   | 14.60   | -9.38   | 6.09       | 16.09      | 15.02      |
| 1477 | 6           | 0           | 0          | -0.71   | 0.08    | -11.63  | 0.08       | 10.74      | 0.24       |
| 1481 | 6           | 0           | 5          | -0.87   | 1.35    | -11.64  | 0.82       | 11.09      | 1.35       |
| 1485 | 6           | 0           | 10         | -0.98   | 2.99    | -11.66  | 1.74       | 11.74      | 2.73       |
| 1489 | 6           | 0           | 15         | -1.25   | 5.86    | -11.68  | 3.11       | 13.23      | 5.12       |
| 1495 | 6           | 10          | 0          | -0.82   | -1.09   | -11.63  | -0.72      | 11.57      | -1.31      |
| 1499 | 6           | 10          | 5          | -0.69   | 0.05    | -11.81  | -0.07      | 10.20      | -0.29      |
| 1503 | 6           | 10          | 10         | -0.66   | 1.13    | -12.00  | 0.56       | 9.01       | 0.42       |
| 1507 | 6           | 10          | 15         | -0.67   | 2.31    | -12.21  | 1.20       | 8.22       | 1.14       |
| 1523 | 6           | 20          | 0          | -1.30   | -2.46   | -11.55  | -1.55      | 13.44      | -3.03      |
| 1527 | 6           | 20          | 5          | -0.99   | -1.40   | -11.89  | -0.88      | 11.33      | -1.94      |
| 1531 | 6           | 20          | 10         | -0.68   | -0.80   | -12.08  | -0.65      | 9.48       | -1.30      |
| 1535 | 6           | 20          | 15         | -0.46   | -0.24   | -12.26  | -0.44      | 8.14       | -0.74      |

\* Indicates model was close to heave stop



TABLE 7.204.1 - STABILITY DATA IN BODY AXES AT TRANSOM

20 deg Deadrise, L/R = 0.000, Cv = 4

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|--------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 1711 * | -2          | -10         | 0          | -11.61  | 5.93    | -10.22  | 2.93       | 22.90      | 15.51      |
| 1647 * | -2          | 0           | 0          | -11.90  | 0.55    | -11.08  | 0.20       | 23.68      | 1.32       |
| 1651 * | -2          | 0           | 5          | -12.23  | 12.52   | -11.07  | 3.79       | 25.92      | 43.14      |
| 1662 * | -2          | 10          | 0          | -11.93  | -5.04   | -10.36  | -2.35      | 23.71      | -14.97     |
| 1666 * | -2          | 10          | 5          | -11.81  | 6.99    | -12.49  | 1.50       | 33.52      | 24.90      |
| 1694 * | -2          | 20          | 0          | -12.94  | -9.10   | -8.44   | -3.68      | 23.06      | -29.35     |
| 1698 * | -2          | 20          | 5          | -12.85  | -0.02   | -11.75  | -0.36      | 37.51      | 1.17       |
| 1629   | 0           | -10         | 0          | -6.09   | 2.53    | -11.22  | 0.87       | 32.80      | 8.20       |
| 1633   | 0           | -10         | 5          | -9.25   | 10.40   | -9.83   | 3.31       | 29.52      | 25.75      |
| 1637 * | 0           | -10         | 10         | -11.38  | 33.55   | -5.75   | 10.11      | 21.38      | 86.39      |
| 1562   | 0           | 0           | 0          | -5.64   | 0.18    | -11.49  | 0.08       | 34.53      | 0.41       |
| 1566   | 0           | 0           | 5          | -7.18   | 5.68    | -11.49  | 2.20       | 36.38      | 15.62      |
| 1570 * | 0           | 0           | 10         | -13.38  | 38.77   | -11.49  | 12.48      | 33.10      | 105.96     |
| 1574 * | 0           | 0           | 15         | -14.67  | 58.20   | -11.49  | 14.57      | 37.13      | 147.14     |
| 1580   | 0           | 10          | 0          | -6.03   | -2.05   | -11.31  | -0.61      | 32.62      | -7.14      |
| 1584   | 0           | 10          | 5          | -5.70   | 1.47    | -11.93  | 0.74       | 36.49      | 3.06       |
| 1589   | 0           | 10          | 10         | -5.86   | 6.79    | -12.87  | 3.15       | 39.08      | 15.70      |
| 1593 * | 0           | 10          | 15         | -14.46  | 38.16   | -18.40  | 14.42      | 64.83      | 84.45      |
| 1609   | 0           | 20          | 0          | -6.49   | -4.25   | -10.68  | -1.56      | 27.54      | -12.12     |
| 1613   | 0           | 20          | 5          | -5.36   | -1.59   | -11.65  | -0.62      | 34.88      | -6.12      |
| 1617   | 0           | 20          | 10         | -4.29   | 0.91    | -12.56  | -0.05      | 32.35      | -0.78      |
| 1621   | 0           | 20          | 15         | -3.61   | 2.86    | -13.27  | 0.08       | 29.26      | 2.40       |
| 1399   | 3           | -10         | 0          | -2.37   | 1.75    | -11.50  | 1.06       | 18.69      | 3.34       |
| 1395   | 3           | -10         | 5          | -3.39   | 5.44    | -10.90  | 2.82       | 20.91      | 8.25       |
| 1385   | 3           | -10         | 10         | -5.24   | 15.58   | -9.21   | 6.40       | 24.52      | 24.27      |
| 1386   | 3           | -10         | 13         | -7.59   | 34.58   | -5.99   | 12.58      | 28.31      | 60.38      |
| 1384 * | 3           | -10         | 15         | -9.31   | 52.10   | -2.99   | 17.62      | 24.86      | 100.07     |
| 1407   | 3           | 0           | 0          | -2.39   | 0.22    | -11.63  | 0.10       | 17.04      | 0.40       |
| 1411   | 3           | 0           | 5          | -2.56   | 2.51    | -11.64  | 1.38       | 18.08      | 3.64       |
| 1415   | 3           | 0           | 10         | -3.20   | 6.66    | -11.67  | 3.53       | 21.03      | 9.30       |
| 1419   | 3           | 0           | 15         | -5.80   | 22.72   | -11.81  | 9.91       | 32.57      | 35.53      |

\* Indicates model was close to heave stop

TABLE 7.204.2 - STABILITY DATA IN BODY AXES AT TRANSOM

20 deg Deadrise, L/R = 0.000, Cv = 4

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 1438 | 3           | 10          | 0          | -2.48   | -1.46   | -11.56  | -0.98      | 18.18      | -2.72      |
| 1443 | 3           | 10          | 5          | -2.12   | 0.58    | -11.90  | 0.16       | 15.19      | 0.08       |
| 1447 | 3           | 10          | 10         | -1.95   | 2.75    | -12.27  | 1.31       | 13.20      | 2.23       |
| 1451 | 3           | 10          | 15         | -1.80   | 5.15    | -12.69  | 2.53       | 12.14      | 4.25       |
| 1459 | 3           | 20          | 0          | -2.76   | -3.00   | -11.31  | -1.96      | 20.80      | -5.67      |
| 1463 | 3           | 20          | 5          | -2.20   | -1.30   | -11.90  | -1.04      | 16.38      | -2.63      |
| 1467 | 3           | 20          | 10         | -1.66   | -0.47   | -12.16  | -0.70      | 12.81      | -1.47      |
| 1471 | 3           | 20          | 15         | -1.24   | 0.39    | -12.45  | -0.45      | 10.55      | -0.54      |
| 1543 | 6           | -10         | 0          | -0.87   | 1.89    | -11.49  | 1.17       | 8.17       | 1.76       |
| 1547 | 6           | -10         | 5          | -1.16   | 3.17    | -11.30  | 1.94       | 10.32      | 2.89       |
| 1551 | 6           | -10         | 10         | -1.79   | 6.89    | -10.71  | 3.67       | 12.28      | 5.42       |
| 1555 | 6           | -10         | 15         | -2.48   | 15.39   | -9.28   | 6.86       | 15.64      | 12.79      |
| 1478 | 6           | 0           | 0          | -0.73   | 0.17    | -11.63  | 0.08       | 6.45       | 0.42       |
| 1482 | 6           | 0           | 5          | -0.82   | 1.72    | -11.64  | 1.01       | 6.64       | 1.06       |
| 1486 | 6           | 0           | 10         | -0.92   | 3.31    | -11.65  | 1.93       | 6.83       | 1.86       |
| 1490 | 6           | 0           | 15         | -1.04   | 5.03    | -11.66  | 2.99       | 7.35       | 2.82       |
| 1496 | 6           | 10          | 0          | -0.78   | -1.59   | -11.53  | -1.14      | 7.90       | -1.07      |
| 1500 | 6           | 10          | 5          | -0.73   | -0.39   | -11.74  | -0.52      | 7.02       | -0.36      |
| 1504 | 6           | 10          | 10         | -0.75   | 0.81    | -11.95  | 0.10       | 6.46       | 0.24       |
| 1508 | 6           | 10          | 15         | -0.80   | 2.18    | -12.20  | 0.74       | 5.97       | 0.93       |
| 1524 | 6           | 20          | 0          | -1.50   | -2.59   | -11.52  | -1.76      | 10.77      | -2.56      |
| 1528 | 6           | 20          | 5          | -0.91   | -2.30   | -11.56  | -1.55      | 7.96       | -1.75      |
| 1532 | 6           | 20          | 10         | -0.61   | -1.78   | -11.72  | -1.32      | 6.60       | -1.19      |
| 1536 | 6           | 20          | 15         | -0.51   | -1.34   | -11.86  | -1.14      | 5.74       | -0.74      |

\* Indicates model was close to heave stop

TABLE 7.210.1 - STABILITY DATA IN BODY AXES AT TRANSOM

20 deg Deadrise, L/R = 0.117, Cv = 0

| RUN | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|-----|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 585 | 0           | -10         | -10        | -0.04   | 2.08    | -11.30  | 1.11       | 17.63      | 3.26       |
| 568 | 0           | -10         | -8         | -0.03   | 2.07    | -11.30  | 1.11       | 17.62      | 3.26       |
| 582 | 0           | -10         | -5         | -0.04   | 2.06    | -11.30  | 1.10       | 17.57      | 3.23       |
| 569 | 0           | -10         | 0          | -0.03   | 2.10    | -11.30  | 1.14       | 17.56      | 3.30       |
| 574 | 0           | -10         | 5          | -0.01   | 2.05    | -11.31  | 1.05       | 17.50      | 3.20       |
| 577 | 0           | -10         | 10         | -0.03   | 2.02    | -11.31  | 1.01       | 17.45      | 3.15       |
| 468 | 0           | 0           | -15        | -0.07   | 0.09    | -11.49  | 0.03       | 17.68      | 0.16       |
| 464 | 0           | 0           | -10        | -0.04   | 0.13    | -11.49  | 0.06       | 17.88      | 0.23       |
| 459 | 0           | 0           | -5         | -0.04   | 0.14    | -11.49  | 0.07       | 17.90      | 0.25       |
| 439 | 0           | 0           | 0          | -0.01   | 0.09    | -11.49  | 0.07       | 17.90      | 0.18       |
| 446 | 0           | 0           | 5          | -0.02   | 0.05    | -11.49  | -0.01      | 17.72      | 0.11       |
| 450 | 0           | 0           | 10         | -0.02   | 0.05    | -11.49  | -0.02      | 17.70      | 0.10       |
| 454 | 0           | 0           | 15         | -0.04   | 0.05    | -11.49  | -0.04      | 17.54      | 0.12       |
| 534 | 0           | 10          | -10        | -0.04   | -2.00   | -11.32  | -1.24      | 17.66      | -3.10      |
| 530 | 0           | 10          | -5         | -0.02   | -1.93   | -11.33  | -1.18      | 17.60      | -2.99      |
| 471 | 0           | 10          | 0          | -0.05   | -1.89   | -11.33  | -1.10      | 17.54      | -2.88      |
| 517 | 0           | 10          | 0          | -0.03   | -1.95   | -11.32  | -1.19      | 17.61      | -2.99      |
| 475 | 0           | 10          | 5          | -0.02   | -1.90   | -11.33  | -1.13      | 17.42      | -2.87      |
| 522 | 0           | 10          | 5          | -0.01   | -1.93   | -11.33  | -1.16      | 17.48      | -2.92      |
| 525 | 0           | 10          | 10         | -0.02   | -1.94   | -11.33  | -1.16      | 17.49      | -2.97      |
| 560 | 0           | 20          | -10        | -0.05   | -3.95   | -10.79  | -2.10      | 16.64      | -6.08      |
| 553 | 0           | 20          | -5         | -0.03   | -3.90   | -10.81  | -2.01      | 16.61      | -5.97      |
| 555 | 0           | 20          | -5         | -0.04   | -3.94   | -10.79  | -2.07      | 16.58      | -6.04      |
| 538 | 0           | 20          | 0          | -0.02   | -3.91   | -10.80  | -2.05      | 16.55      | -5.97      |
| 543 | 0           | 20          | 5          | -0.01   | -3.87   | -10.82  | -2.01      | 16.52      | -5.89      |
| 548 | 0           | 20          | 10         | -0.02   | -3.86   | -10.82  | -1.98      | 16.48      | -5.85      |
| 250 | 3           | -10         | -15        | 0.59    | 1.95    | -11.31  | 0.95       | 12.50      | 2.14       |
| 245 | 3           | -10         | -10        | 0.60    | 2.01    | -11.30  | 1.02       | 12.29      | 2.23       |
| 241 | 3           | -10         | -5         | 0.61    | 1.96    | -11.30  | 0.97       | 12.31      | 2.09       |
| 237 | 3           | -10         | 0          | 0.62    | 2.01    | -11.30  | 1.00       | 12.18      | 2.20       |
| 233 | 3           | -10         | 5          | 0.60    | 2.01    | -11.30  | 1.00       | 12.22      | 2.22       |
| 229 | 3           | -10         | 10         | 0.55    | 1.89    | -11.32  | 0.73       | 12.32      | 2.04       |
| 225 | 3           | -10         | 15         | 0.59    | 1.82    | -11.33  | 0.76       | 12.37      | 1.85       |
| 109 | 3           | 0           | -15        | 0.61    | 0.02    | -11.47  | -0.05      | 12.26      | -0.01      |
| 104 | 3           | 0           | -10        | 0.61    | 0.06    | -11.47  | -0.02      | 12.21      | 0.07       |
| 100 | 3           | 0           | -5         | 0.60    | 0.07    | -11.47  | -0.02      | 12.21      | 0.10       |
| 96  | 3           | 0           | 0          | 0.59    | -0.03   | -11.47  | -0.14      | 12.22      | -0.11      |
| 90  | 3           | 0           | 5          | 0.62    | 0.05    | -11.47  | -0.04      | 12.09      | 0.06       |
| 79  | 3           | 0           | 10         | 0.59    | -0.09   | -11.47  | -0.18      | 12.08      | -0.25      |
| 81  | 3           | 0           | 10         | 0.58    | -0.23   | -11.48  | -0.32      | 12.12      | -0.56      |
| 87  | 3           | 0           | 10         | 0.62    | 0.02    | -11.47  | -0.09      | 12.06      | 0.01       |
| 83  | 3           | 0           | 15         | 0.57    | 0.03    | -11.48  | -0.08      | 12.02      | 0.00       |

\* Indicates model was close to heave stop

TABLE 7.210.2 - STABILITY DATA IN BODY AXES AT TRANSOM

20 deg Deadrise, L/R = 0.117, Cv = 0

| RUN | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|-----|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 113 | 3           | 10          | -15        | 0.56    | -1.97   | -11.31  | -1.15      | 12.20      | -2.23      |
| 154 | 3           | 10          | -15        | 0.53    | -2.06   | -11.29  | -1.15      | 12.54      | -2.42      |
| 159 | 3           | 10          | -10        | 0.58    | -2.02   | -11.30  | -1.18      | 12.11      | -2.29      |
| 163 | 3           | 10          | -5         | 0.59    | -2.02   | -11.30  | -1.19      | 12.07      | -2.30      |
| 167 | 3           | 10          | 0          | 0.59    | -2.11   | -11.28  | -1.28      | 12.16      | -2.50      |
| 171 | 3           | 10          | 5          | 0.61    | -1.93   | -11.31  | -1.11      | 12.08      | -2.11      |
| 185 | 3           | 10          | 5          | 0.60    | -2.00   | -11.30  | -1.18      | 12.22      | -2.25      |
| 187 | 3           | 10          | 10         | 0.62    | -2.03   | -11.29  | -1.19      | 12.06      | -2.30      |
| 191 | 3           | 10          | 15         | 0.64    | -1.79   | -11.33  | -0.95      | 12.02      | -1.70      |
| 219 | 3           | 20          | -15        | 0.64    | -3.90   | -10.79  | -1.81      | 11.69      | -4.34      |
| 215 | 3           | 20          | -10        | 0.60    | -3.88   | -10.80  | -1.84      | 11.63      | -4.27      |
| 211 | 3           | 20          | -5         | 0.59    | -3.92   | -10.79  | -1.88      | 11.65      | -4.35      |
| 203 | 3           | 20          | 5          | 0.59    | -3.92   | -10.79  | -1.90      | 11.71      | -4.38      |
| 207 | 3           | 20          | 5          | 0.61    | -3.89   | -10.80  | -1.87      | 11.56      | -4.27      |
| 199 | 3           | 20          | 10         | 0.63    | -3.91   | -10.79  | -1.89      | 11.49      | -4.25      |
| 195 | 3           | 20          | 15         | 0.62    | -3.89   | -10.79  | -1.86      | 11.52      | -4.25      |
| 419 | 6           | -10         | -15        | 1.23    | 2.02    | -11.24  | 0.96       | 9.07       | 1.72       |
| 415 | 6           | -10         | -10        | 1.24    | 2.03    | -11.24  | 0.96       | 9.22       | 1.76       |
| 411 | 6           | -10         | -5         | 1.22    | 1.95    | -11.26  | 0.88       | 9.13       | 1.58       |
| 393 | 6           | -10         | 0          | 1.23    | 1.99    | -11.25  | 0.92       | 9.26       | 1.70       |
| 397 | 6           | -10         | 5          | 1.24    | 2.01    | -11.24  | 0.94       | 9.03       | 1.71       |
| 401 | 6           | -10         | 10         | 1.25    | 1.99    | -11.25  | 0.90       | 9.09       | 1.68       |
| 405 | 6           | -10         | 15         | 1.24    | 1.97    | -11.25  | 0.88       | 9.09       | 1.64       |
| 295 | 6           | 0           | -15        | 1.23    | 0.02    | -11.42  | -0.05      | 8.82       | -0.05      |
| 291 | 6           | 0           | -10        | 1.22    | 0.08    | -11.42  | 0.02       | 8.86       | 0.05       |
| 287 | 6           | 0           | -5         | 1.23    | 0.04    | -11.42  | -0.03      | 8.83       | 0.03       |
| 267 | 6           | 0           | 0          | 1.24    | 0.04    | -11.42  | -0.04      | 8.82       | 0.02       |
| 273 | 6           | 0           | 5          | 1.22    | -0.02   | -11.42  | -0.10      | 8.85       | -0.10      |
| 277 | 6           | 0           | 5          | 1.26    | 0.05    | -11.42  | -0.04      | 8.88       | 0.06       |
| 282 | 6           | 0           | 10         | 1.25    | 0.06    | -11.42  | -0.03      | 8.64       | 0.07       |
| 283 | 6           | 0           | 15         | 1.23    | 0.01    | -11.42  | -0.07      | 8.91       | -0.04      |
| 299 | 6           | 10          | -15        | 1.22    | -1.98   | -11.25  | -1.02      | 8.88       | -1.76      |
| 304 | 6           | 10          | -10        | 1.24    | -1.94   | -11.26  | -0.98      | 8.82       | -1.68      |
| 308 | 6           | 10          | -5         | 1.25    | -1.91   | -11.26  | -0.95      | 8.72       | -1.57      |
| 321 | 6           | 10          | -5         | 1.25    | -1.91   | -11.26  | -0.94      | 8.86       | -1.61      |
| 324 | 6           | 10          | 0          | 1.25    | -1.89   | -11.26  | -0.91      | 8.71       | -1.52      |
| 328 | 6           | 10          | 5          | 1.25    | -1.94   | -11.26  | -0.98      | 8.73       | -1.63      |
| 332 | 6           | 10          | 10         | 1.26    | -1.91   | -11.26  | -0.97      | 8.61       | -1.54      |
| 336 | 6           | 10          | 15         | 1.25    | -2.01   | -11.24  | -1.08      | 8.69       | -1.76      |
| 364 | 6           | 20          | -15        | 1.22    | -3.95   | -10.72  | -1.94      | 8.57       | -3.53      |
| 360 | 6           | 20          | -10        | 1.22    | -3.88   | -10.75  | -1.87      | 8.64       | -3.36      |
| 356 | 6           | 20          | -5         | 1.22    | -3.91   | -10.74  | -1.93      | 8.58       | -3.40      |
| 340 | 6           | 20          | 0          | 1.21    | -3.93   | -10.73  | -1.97      | 8.61       | -3.46      |
| 344 | 6           | 20          | 5          | 1.25    | -3.90   | -10.74  | -1.92      | 8.58       | -3.36      |
| 348 | 6           | 20          | 10         | 1.26    | -3.87   | -10.75  | -1.88      | 8.52       | -3.28      |
| 352 | 6           | 20          | 15         | 1.23    | -3.96   | -10.71  | -1.99      | 8.48       | -3.48      |

\* Indicates model was close to heave stop

TABLE 7.211.1 - STABILITY DATA IN BODY AXES AT TRANSOM

20 deg Deadrise, L/R = 0.117, Cv = 1.5

| RUN   | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|-------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 586   | 0           | -10         | -10        | -1.62   | 0.46    | -11.59  | 1.00       | 23.62      | -1.80      |
| 581   | 0           | -10         | -5         | -1.36   | 1.64    | -11.38  | 1.24       | 22.29      | 1.79       |
| 570   | 0           | -10         | 0          | -1.21   | 2.43    | -11.24  | 1.45       | 21.72      | 4.36       |
| 573   | 0           | -10         | 5          | -1.36   | 3.13    | -11.12  | 1.45       | 21.61      | 6.64       |
| 578   | 0           | -10         | 10         | -1.64   | 4.72    | -10.83  | 1.58       | 21.88      | 10.81      |
| 469 * | 0           | 0           | -15        | -2.04   | -5.16   | -11.49  | -1.18      | 24.37      | -15.36     |
| 465   | 0           | 0           | -10        | -1.59   | -1.80   | -11.49  | -0.06      | 22.90      | -6.41      |
| 460   | 0           | 0           | -5         | -1.34   | -0.45   | -11.49  | 0.11       | 22.05      | -2.35      |
| 443   | 0           | 0           | 0          | -1.26   | 0.01    | -11.49  | 0.02       | 22.17      | -0.40      |
| 447   | 0           | 0           | 5          | -1.25   | 0.71    | -11.49  | 0.24       | 22.26      | 1.75       |
| 451   | 0           | 0           | 10         | -1.47   | 1.92    | -11.49  | 0.52       | 23.19      | 5.02       |
| 455 * | 0           | 0           | 15         | -1.94   | 4.85    | -11.49  | 1.37       | 24.75      | 12.06      |
| 535   | 0           | 10          | -10        | -1.64   | -4.35   | -10.90  | -1.38      | 20.84      | -11.68     |
| 531   | 0           | 10          | -5         | -1.34   | -2.76   | -11.18  | -1.18      | 21.15      | -6.97      |
| 472   | 0           | 10          | 0          | -1.23   | -1.88   | -11.34  | -0.95      | 21.41      | -4.17      |
| 518   | 0           | 10          | 0          | -1.19   | -2.04   | -11.31  | -1.15      | 21.46      | -4.47      |
| 476   | 0           | 10          | 5          | -1.28   | -1.20   | -11.46  | -0.76      | 22.15      | -1.91      |
| 523   | 0           | 10          | 5          | -1.17   | -1.34   | -11.43  | -0.83      | 22.01      | -2.29      |
| 526   | 0           | 10          | 10         | -1.38   | -0.35   | -11.61  | -0.56      | 23.30      | 0.35       |
| 561   | 0           | 20          | -10        | -1.81   | -6.31   | -9.93   | -2.06      | 18.31      | -15.22     |
| 556   | 0           | 20          | -5         | -1.37   | -4.63   | -10.54  | -1.86      | 19.38      | -10.22     |
| 539   | 0           | 20          | 0          | -1.25   | -3.83   | -10.83  | -1.86      | 20.30      | -7.89      |
| 544   | 0           | 20          | 5          | -1.16   | -3.15   | -11.08  | -1.62      | 21.19      | -5.98      |
| 549   | 0           | 20          | 10         | -1.34   | -2.07   | -11.47  | -1.33      | 23.25      | -3.29      |
| 251   | 3           | -10         | -15        | -0.81   | -1.10   | -11.92  | -0.26      | 20.00      | -2.91      |
| 246   | 3           | -10         | -10        | -0.73   | 0.51    | -11.63  | 0.50       | 17.95      | -0.06      |
| 242   | 3           | -10         | -5         | -0.62   | 1.73    | -11.41  | 1.08       | 16.82      | 2.06       |
| 238   | 3           | -10         | 0          | -0.56   | 2.70    | -11.24  | 1.50       | 16.29      | 3.86       |
| 234   | 3           | -10         | 5          | -0.69   | 3.56    | -11.09  | 1.77       | 16.52      | 5.46       |
| 230   | 3           | -10         | 10         | -0.93   | 4.81    | -10.88  | 1.80       | 17.14      | 7.64       |
| 226   | 3           | -10         | 15         | -1.23   | 7.96    | -10.35  | 2.45       | 18.11      | 13.00      |
| 108   | 3           | 0           | -15        | -1.02   | -3.93   | -11.56  | -1.60      | 18.48      | -8.08      |
| 110   | 3           | 0           | -15        | -0.99   | -3.77   | -11.56  | -1.47      | 18.39      | -7.78      |
| 105   | 3           | 0           | -10        | -0.79   | -1.56   | -11.55  | -0.75      | 17.06      | -3.47      |
| 101   | 3           | 0           | -5         | -0.66   | -0.47   | -11.54  | -0.32      | 16.63      | -1.33      |
| 97    | 3           | 0           | 0          | -0.60   | 0.26    | -11.54  | 0.03       | 16.55      | 0.10       |
| 91    | 3           | 0           | 5          | -0.61   | 1.12    | -11.54  | 0.45       | 16.71      | 1.64       |
| 92    | 3           | 0           | 5          | -0.64   | 1.10    | -11.54  | 0.40       | 16.78      | 1.62       |
| 88    | 3           | 0           | 10         | -0.78   | 2.33    | -11.55  | 0.85       | 17.54      | 3.67       |
| 86    | 3           | 0           | 15         | -1.04   | 4.84    | -11.56  | 1.63       | 19.08      | 7.81       |

\* Indicates model was close to heave stop

TABLE 7.211.2 - STABILITY DATA IN BODY AXES AT TRANSOM

20 deg Deadrise, L/R = 0.117, Cv = 1.5

| RUN | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|-----|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 114 | 3           | 10          | -15        | -1.19   | -6.43   | -10.61  | -2.58      | 16.73      | -12.31     |
| 160 | 3           | 10          | -10        | -0.93   | -3.70   | -11.08  | -1.74      | 16.42      | -6.57      |
| 164 | 3           | 10          | -5         | -0.77   | -2.54   | -11.28  | -1.43      | 16.17      | -4.31      |
| 168 | 3           | 10          | 0          | -0.67   | -1.60   | -11.44  | -0.95      | 16.40      | -2.46      |
| 172 | 3           | 10          | 5          | -0.63   | -0.93   | -11.55  | -0.74      | 16.66      | -1.42      |
| 188 | 3           | 10          | 10         | -0.65   | 0.21    | -11.76  | -0.14      | 17.93      | 0.28       |
| 192 | 3           | 10          | 15         | -0.84   | 2.13    | -12.10  | 0.73       | 20.05      | 3.37       |
| 220 | 3           | 20          | -15        | -1.03   | -7.84   | -9.45   | -2.80      | 14.48      | -14.06     |
| 216 | 3           | 20          | -10        | -0.83   | -5.45   | -10.31  | -2.18      | 15.09      | -9.10      |
| 212 | 3           | 20          | -5         | -0.67   | -4.34   | -10.70  | -1.96      | 15.34      | -6.80      |
| 204 | 3           | 20          | 5          | -0.54   | -2.86   | -11.23  | -1.47      | 16.29      | -4.26      |
| 208 | 3           | 20          | 5          | -0.50   | -3.64   | -10.95  | -1.75      | 15.55      | -5.48      |
| 200 | 3           | 20          | 10         | -0.64   | -1.73   | -11.65  | -0.88      | 17.73      | -2.72      |
| 196 | 3           | 20          | 15         | -0.82   | -0.27   | -12.19  | -0.25      | 20.05      | -0.71      |
| 420 | 6           | -10         | -15        | -0.24   | -0.86   | -11.91  | -0.25      | 14.64      | -0.75      |
| 416 | 6           | -10         | -10        | -0.23   | 0.18    | -11.72  | 0.23       | 13.85      | 0.36       |
| 412 | 6           | -10         | -5         | -0.17   | 1.21    | -11.54  | 0.61       | 13.24      | 1.20       |
| 409 | 6           | -10         | -5         | -0.18   | 1.29    | -11.52  | 0.66       | 13.26      | 1.37       |
| 394 | 6           | -10         | 0          | -0.22   | 2.35    | -11.34  | 1.13       | 12.97      | 2.44       |
| 398 | 6           | -10         | 5          | -0.31   | 3.51    | -11.15  | 1.58       | 13.05      | 3.72       |
| 402 | 6           | -10         | 10         | -0.40   | 5.11    | -10.87  | 2.08       | 13.41      | 5.51       |
| 406 | 6           | -10         | 15         | -0.53   | 7.64    | -10.44  | 2.81       | 14.08      | 8.40       |
| 296 | 6           | 0           | -15        | -0.31   | -2.81   | -11.59  | -1.16      | 13.84      | -3.29      |
| 292 | 6           | 0           | -10        | -0.29   | -1.47   | -11.58  | -0.65      | 13.22      | -1.75      |
| 288 | 6           | 0           | -5         | -0.25   | -0.35   | -11.58  | -0.11      | 12.82      | -0.37      |
| 268 | 6           | 0           | 0          | -0.12   | 0.48    | -11.57  | 0.17       | 12.69      | 0.35       |
| 274 | 6           | 0           | 5          | -0.28   | 1.51    | -11.58  | 0.63       | 13.07      | 1.46       |
| 278 | 6           | 0           | 10         | -0.27   | 2.78    | -11.58  | 1.21       | 13.68      | 2.91       |
| 284 | 6           | 0           | 15         | -0.45   | 4.73    | -11.60  | 1.85       | 14.66      | 4.97       |
| 300 | 6           | 10          | -15        | -0.43   | -5.25   | -10.85  | -2.18      | 13.18      | -6.25      |
| 305 | 6           | 10          | -10        | -0.32   | -3.42   | -11.16  | -1.60      | 12.76      | -3.99      |
| 309 | 6           | 10          | -5         | -0.31   | -2.37   | -11.35  | -1.26      | 12.62      | -2.78      |
| 325 | 6           | 10          | 0          | -0.21   | -1.23   | -11.54  | -0.69      | 12.66      | -1.42      |
| 329 | 6           | 10          | 5          | -0.18   | -0.08   | -11.74  | -0.20      | 13.16      | -0.33      |
| 333 | 6           | 10          | 10         | -0.22   | 1.07    | -11.94  | 0.37       | 13.99      | 0.81       |
| 337 | 6           | 10          | 15         | -0.28   | 2.36    | -12.18  | 0.88       | 15.04      | 2.02       |
| 365 | 6           | 20          | -15        | -0.53   | -8.12   | -9.40   | -3.20      | 11.59      | -9.88      |
| 361 | 6           | 20          | -10        | -0.44   | -5.76   | -10.25  | -2.54      | 11.92      | -6.71      |
| 357 | 6           | 20          | -5         | -0.40   | -4.36   | -10.75  | -2.15      | 12.17      | -4.92      |
| 341 | 6           | 20          | 0          | -0.38   | -3.11   | -11.20  | -1.71      | 12.67      | -3.58      |
| 345 | 6           | 20          | 5          | -0.34   | -1.93   | -11.63  | -1.25      | 13.22      | -2.40      |
| 349 | 6           | 20          | 10         | -0.30   | -0.60   | -12.11  | -0.63      | 14.32      | -1.28      |
| 353 | 6           | 20          | 15         | -0.27   | 0.18    | -12.39  | -0.26      | 15.04      | -0.57      |

\* Indicates model was close to heave stop

TABLE 7.213.1 - STABILITY DATA IN BODY AXES AT TRANSOM

20 deg Deadrise, L/R = 0.117, Cv = 3

| RUN   | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|-------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 587   | 0           | -10         | -10        | -5.18   | -5.75   | -12.68  | -1.26      | 36.18      | -18.22     |
| 583   | 0           | -10         | -5         | -3.87   | -0.58   | -11.77  | 0.37       | 29.74      | -3.71      |
| 571   | 0           | -10         | 0          | -3.52   | 2.45    | -11.24  | 1.29       | 25.29      | 4.29       |
| 575   | 0           | -10         | 5          | -4.48   | 6.86    | -10.46  | 2.29       | 25.35      | 13.78      |
| 579 * | 0           | -10         | 10         | -5.92   | 16.60   | -8.74   | 4.52       | 25.51      | 34.98      |
| 466 * | 0           | 0           | -10        | -6.04   | -11.70  | -11.49  | -2.74      | 28.98      | -32.52     |
| 461   | 0           | 0           | -5         | -4.07   | -3.03   | -11.49  | -0.77      | 27.46      | -10.59     |
| 444   | 0           | 0           | 0          | -3.58   | 0.05    | -11.49  | 0.17       | 27.38      | -1.55      |
| 448   | 0           | 0           | 5          | -4.08   | 3.07    | -11.49  | 1.11       | 28.86      | 6.35       |
| 452 * | 0           | 0           | 10         | -5.77   | 12.12   | -11.49  | 3.67       | 33.45      | 22.80      |
| 456 * | 0           | 0           | 15         | -6.18   | 22.76   | -11.49  | 7.40       | 35.84      | 44.81      |
| 536   | 0           | 10          | -10        | -5.60   | -14.68  | -9.08   | -4.11      | 18.91      | -40.30     |
| 532   | 0           | 10          | -5         | -4.02   | -5.71   | -10.66  | -1.91      | 21.80      | -15.94     |
| 473   | 0           | 10          | 0          | -3.58   | -2.69   | -11.19  | -1.58      | 24.63      | -8.22      |
| 478   | 0           | 10          | 5          | -3.72   | 0.73    | -11.80  | 0.36       | 29.16      | 0.63       |
| 527   | 0           | 10          | 10         | -4.64   | 5.76    | -12.68  | 2.14       | 35.19      | 11.56      |
| 528   | 0           | 10          | 10         | -4.67   | 5.73    | -12.68  | 2.11       | 35.25      | 11.47      |
| 562 * | 0           | 20          | -10        | -6.74   | -16.31  | -6.29   | -4.02      | 23.21      | -45.13     |
| 567   | 0           | 20          | -8         | -4.99   | -12.75  | -7.59   | -3.41      | 16.05      | -33.38     |
| 557   | 0           | 20          | -5         | -3.96   | -7.59   | -9.47   | -2.50      | 18.86      | -18.70     |
| 558   | 0           | 20          | -5         | -4.02   | -7.80   | -9.39   | -2.69      | 18.74      | -19.24     |
| 540   | 0           | 20          | 0          | -3.38   | -4.03   | -10.76  | -1.61      | 21.66      | -9.97      |
| 546   | 0           | 20          | 5          | -3.31   | -1.45   | -11.70  | -0.69      | 27.02      | -4.98      |
| 550   | 0           | 20          | 10         | -3.29   | 1.30    | -12.70  | 0.48       | 30.89      | 0.69       |
| 252   | 3           | -10         | -15        | -1.31   | -3.16   | -12.31  | -1.45      | 18.34      | -4.50      |
| 247   | 3           | -10         | -10        | -1.48   | -1.04   | -11.95  | -0.31      | 18.95      | -1.53      |
| 243   | 3           | -10         | -5         | -1.53   | 0.77    | -11.63  | 0.68       | 19.50      | 1.36       |
| 239   | 3           | -10         | 0          | -1.75   | 3.05    | -11.24  | 1.72       | 18.95      | 4.65       |
| 235   | 3           | -10         | 5          | -2.31   | 6.27    | -10.70  | 2.84       | 19.32      | 9.18       |
| 231   | 3           | -10         | 10         | -3.35   | 14.06   | -9.38   | 5.23       | 21.46      | 21.07      |
| 227 * | 3           | -10         | 15         | -5.17   | 33.17   | -6.11   | 10.34      | 24.31      | 57.03      |
| 111   | 3           | 0           | -15        | -3.13   | -11.40  | -11.67  | -4.72      | 25.04      | -21.30     |
| 106   | 3           | 0           | -10        | -2.09   | -3.65   | -11.62  | -1.82      | 19.90      | -7.08      |
| 102   | 3           | 0           | -5         | -1.77   | -0.99   | -11.60  | -0.56      | 18.61      | -2.39      |
| 98    | 3           | 0           | 0          | -1.48   | 0.89    | -11.58  | 0.44       | 18.23      | 0.94       |
| 94    | 3           | 0           | 5          | -1.86   | 3.55    | -11.60  | 1.71       | 19.36      | 4.99       |
| 89    | 3           | 0           | 10         | -2.55   | 7.96    | -11.64  | 3.58       | 22.46      | 11.45      |
| 85    | 3           | 0           | 15         | -4.04   | 19.86   | -11.72  | 7.45       | 29.40      | 30.18      |

\* Indicates model was close to heave stop

TABLE 7.213.2 - STABILITY DATA IN BODY AXES AT TRANSOM

20 deg Deadrise, L/R = 0.117, Cv = 3

| RUN | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|-----|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 115 | 3           | 10          | -15        | -4.49   | -22.41  | -7.97   | -7.79      | 21.69      | -43.79     |
| 155 | 3           | 10          | -15        | -4.31   | -20.69  | -8.26   | -7.68      | 21.89      | -39.55     |
| 156 | 3           | 10          | -15        | -4.32   | -20.88  | -8.23   | -7.43      | 21.85      | -40.06     |
| 161 | 3           | 10          | -10        | -2.65   | -7.25   | -10.55  | -3.23      | 19.39      | -12.67     |
| 165 | 3           | 10          | -5         | -1.92   | -2.94   | -11.27  | -1.71      | 18.19      | -5.43      |
| 169 | 3           | 10          | 0          | -1.63   | -0.79   | -11.63  | -0.61      | 18.14      | -2.03      |
| 173 | 3           | 10          | 5          | -1.37   | 0.97    | -11.93  | 0.41       | 17.71      | 0.87       |
| 189 | 3           | 10          | 10         | -1.35   | 2.96    | -12.28  | 1.45       | 17.70      | 3.51       |
| 193 | 3           | 10          | 15         | -1.42   | 5.62    | -12.75  | 2.83       | 18.74      | 6.82       |
| 221 | 3           | 20          | -15        | -3.82   | -20.12  | -5.13   | -7.00      | 13.32      | -38.52     |
| 217 | 3           | 20          | -10        | -2.59   | -9.10   | -9.08   | -3.64      | 17.07      | -15.75     |
| 213 | 3           | 20          | -5         | -1.88   | -4.65   | -10.65  | -2.16      | 17.21      | -7.90      |
| 209 | 3           | 20          | 0          | -1.60   | -2.73   | -11.34  | -1.39      | 17.58      | -5.18      |
| 205 | 3           | 20          | 5          | -1.34   | -1.01   | -11.95  | -0.39      | 17.26      | -2.23      |
| 201 | 3           | 20          | 10         | -1.26   | 0.86    | -12.63  | 0.60       | 17.01      | 0.39       |
| 197 | 3           | 20          | 15         | -1.15   | 2.92    | -13.37  | 1.72       | 16.49      | 2.81       |
| 421 | 6           | -10         | -15        | -0.35   | -1.42   | -12.02  | -0.76      | 9.07       | -0.57      |
| 417 | 6           | -10         | -10        | -0.35   | -0.29   | -11.82  | -0.12      | 9.85       | 0.30       |
| 413 | 6           | -10         | -5         | -0.32   | 0.77    | -11.63  | 0.42       | 11.23      | 1.15       |
| 395 | 6           | -10         | 0          | -0.74   | 2.10    | -11.44  | 1.22       | 13.14      | 2.67       |
| 399 | 6           | -10         | 5          | -1.09   | 5.25    | -10.92  | 2.55       | 13.79      | 5.11       |
| 403 | 6           | -10         | 10         | -1.49   | 10.29   | -10.08  | 4.34       | 15.25      | 10.02      |
| 407 | 6           | -10         | 15         | -1.96   | 19.36   | -8.53   | 7.30       | 17.89      | 20.47      |
| 297 | 6           | 0           | -15        | -0.75   | -3.51   | -11.63  | -1.99      | 12.15      | -3.30      |
| 293 | 6           | 0           | -10        | -0.57   | -1.75   | -11.61  | -1.04      | 11.23      | -1.56      |
| 289 | 6           | 0           | -5         | -0.37   | -0.47   | -11.59  | -0.34      | 10.88      | -0.42      |
| 269 | 6           | 0           | 0          | -0.41   | 0.92    | -11.60  | 0.52       | 10.93      | 0.99       |
| 275 | 6           | 0           | 5          | -0.55   | 2.26    | -11.61  | 1.31       | 11.51      | 2.24       |
| 279 | 6           | 0           | 10         | -0.87   | 4.52    | -11.65  | 2.37       | 12.48      | 4.03       |
| 280 | 6           | 0           | 10         | -0.85   | 4.43    | -11.64  | 2.31       | 12.52      | 3.90       |
| 285 | 6           | 0           | 15         | -1.19   | 8.67    | -11.68  | 4.11       | 14.88      | 7.66       |
| 302 | 6           | 10          | -15        | -1.35   | -8.69   | -10.34  | -3.92      | 14.77      | -9.35      |
| 306 | 6           | 10          | -10        | -1.10   | -4.02   | -11.14  | -2.18      | 13.36      | -4.43      |
| 310 | 6           | 10          | -5         | -0.72   | -1.70   | -11.51  | -1.07      | 12.22      | -2.07      |
| 326 | 6           | 10          | 0          | -0.37   | -0.47   | -11.69  | -0.43      | 10.49      | -0.83      |
| 330 | 6           | 10          | 5          | -0.25   | 0.72    | -11.88  | 0.25       | 9.18       | 0.06       |
| 334 | 6           | 10          | 10         | -0.24   | 1.87    | -12.09  | 0.88       | 8.26       | 0.88       |
| 338 | 6           | 10          | 15         | -0.29   | 3.03    | -12.30  | 1.40       | 7.76       | 1.46       |
| 366 | 6           | 20          | -15        | -1.79   | -14.80  | -7.11   | -5.57      | 12.24      | -17.28     |
| 362 | 6           | 20          | -10        | -1.44   | -7.62   | -9.68   | -3.48      | 13.02      | -8.56      |
| 358 | 6           | 20          | -5         | -1.27   | -3.90   | -11.02  | -2.23      | 13.15      | -4.65      |
| 342 | 6           | 20          | 0          | -0.70   | -1.75   | -11.74  | -1.22      | 11.81      | -2.39      |
| 346 | 6           | 20          | 5          | -0.54   | -1.09   | -11.96  | -0.91      | 9.83       | -1.68      |
| 350 | 6           | 20          | 10         | -0.39   | -0.48   | -12.16  | -0.68      | 8.34       | -0.99      |
| 354 | 6           | 20          | 15         | -0.25   | -0.15   | -12.27  | -0.68      | 7.46       | -0.81      |

\* Indicates model was close to heave stop



TABLE 7.214.1 - STABILITY DATA IN BODY AXES AT TRANSOM

20 deg Deadrise, L/R = 0.117, Cv = 4

| RUN   | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|-------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 588   | 0           | -10         | -10        | -8.59   | -10.30  | -13.48  | -2.74      | 48.70      | -31.78     |
| 584   | 0           | -10         | -5         | -6.08   | -1.66   | -11.96  | -0.23      | 37.41      | -6.56      |
| 572   | 0           | -10         | 0          | -5.86   | 2.20    | -11.28  | 1.01       | 32.33      | 4.96       |
| 576 * | 0           | -10         | 5          | -9.16   | 11.60   | -9.62   | 3.47       | 32.39      | 22.36      |
| 580 * | 0           | -10         | 10         | -9.61   | 27.82   | -6.76   | 7.27       | 29.17      | 58.73      |
| 467 * | 0           | 0           | -10        | -10.37  | -19.87  | -11.49  | -5.30      | 36.58      | -56.85     |
| 462   | 0           | 0           | -5         | -6.87   | -5.09   | -11.49  | -1.21      | 34.42      | -18.49     |
| 445   | 0           | 0           | 0          | -5.51   | -0.28   | -11.49  | -0.04      | 33.45      | -2.67      |
| 449   | 0           | 0           | 5          | -6.73   | 4.93    | -11.49  | 1.74       | 35.99      | 10.48      |
| 453 * | 0           | 0           | 10         | -9.70   | 19.96   | -11.49  | 5.98       | 43.08      | 38.93      |
| 457 * | 0           | 0           | 15         | -10.79  | 39.29   | -11.49  | 12.02      | 47.27      | 78.00      |
| 537 * | 0           | 10          | -10        | -10.15  | -25.98  | -7.09   | -6.13      | 18.36      | -75.76     |
| 533   | 0           | 10          | -5         | -7.67   | -9.14   | -10.06  | -2.72      | 25.23      | -28.38     |
| 474   | 0           | 10          | 0          | -5.92   | -2.31   | -11.26  | -0.37      | 31.27      | -9.97      |
| 519   | 0           | 10          | 0          | -5.92   | -2.51   | -11.23  | -0.64      | 31.46      | -10.60     |
| 520   | 0           | 10          | 0          | -5.78   | -2.66   | -11.20  | -0.70      | 30.96      | -10.68     |
| 479   | 0           | 10          | 5          | -5.45   | 1.43    | -11.92  | 0.75       | 33.88      | 0.66       |
| 521   | 0           | 10          | 5          | -5.40   | 1.20    | -11.88  | 0.72       | 33.85      | 0.22       |
| 529   | 0           | 10          | 10         | -6.05   | 7.47    | -12.98  | 3.31       | 39.65      | 14.29      |
| 563   | 0           | 20          | -10        | -11.02  | -22.61  | -4.00   | -5.33      | 28.41      | -68.44     |
| 566 * | 0           | 20          | -8         | -10.25  | -23.86  | -3.54   | -5.84      | 8.34       | -71.39     |
| 554   | 0           | 20          | -5         | -7.36   | -10.54  | -8.39   | -2.86      | 19.21      | -30.46     |
| 559   | 0           | 20          | -5         | -7.71   | -11.99  | -7.86   | -3.99      | 18.11      | -34.49     |
| 541   | 0           | 20          | 0          | -6.41   | -4.06   | -10.75  | -1.45      | 25.03      | -12.81     |
| 547   | 0           | 20          | 5          | -5.03   | -1.43   | -11.71  | -0.54      | 31.23      | -6.98      |
| 564   | 0           | 20          | 5          | -5.15   | -1.19   | -11.79  | -0.44      | 31.76      | -6.49      |
| 551   | 0           | 20          | 10         | -4.27   | 1.82    | -12.89  | 0.26       | 30.89      | 0.01       |
| 552   | 0           | 20          | 10         | -4.25   | 1.83    | -12.89  | 0.24       | 30.90      | 0.02       |
| 565   | 0           | 20          | 10         | -4.29   | 1.49    | -12.77  | 0.16       | 31.14      | -0.60      |
| 253   | 3           | -10         | -15        | -1.49   | -3.65   | -12.41  | -1.71      | 13.32      | -3.37      |
| 248   | 3           | -10         | -10        | -1.69   | -1.38   | -12.02  | -0.56      | 14.88      | -1.02      |
| 249   | 3           | -10         | -10        | -1.59   | -1.28   | -11.99  | -0.53      | 14.79      | -0.89      |
| 244   | 3           | -10         | -5         | -2.03   | 0.68    | -11.67  | 0.43       | 17.76      | 1.36       |
| 240   | 3           | -10         | 0          | -2.56   | 3.46    | -11.21  | 2.00       | 20.45      | 5.47       |
| 236   | 3           | -10         | 5          | -3.54   | 8.55    | -10.36  | 3.83       | 21.82      | 11.84      |
| 232   | 3           | -10         | 10         | -6.02   | 23.87   | -7.80   | 8.68       | 27.78      | 36.76      |
| 228 * | 3           | -10         | 15         | -8.41   | 56.15   | -2.23   | 17.66      | 31.19      | 97.27      |
| 254 * | 3           | -10         | 15         | -8.44   | 55.77   | -2.30   | 17.16      | 31.23      | 96.87      |
| 112   | 3           | 0           | -15        | -4.31   | -15.28  | -11.73  | -6.80      | 27.59      | -26.78     |
| 107   | 3           | 0           | -10        | -2.38   | -3.68   | -11.63  | -2.06      | 18.58      | -6.03      |
| 103   | 3           | 0           | -5         | -2.31   | -0.94   | -11.63  | -0.56      | 17.54      | -1.74      |
| 99    | 3           | 0           | 0          | -2.27   | 1.42    | -11.62  | 0.77       | 17.73      | 1.95       |
| 95    | 3           | 0           | 5          | -2.60   | 4.67    | -11.64  | 2.46       | 19.13      | 6.27       |
| 82    | 3           | 0           | 10         | -3.58   | 10.58   | -11.69  | 5.03       | 23.85      | 14.33      |
| 84    | 3           | 0           | 15         | -6.48   | 30.96   | -11.85  | 12.08      | 37.99      | 47.31      |

\* Indicates model was close to heave stop

TABLE 7.214.2 - STABILITY DATA IN BODY AXES AT TRANSOM

20 deg Deadrise, L/R = 0.117, Cv = 4

| RUN | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|-----|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 158 | 3           | 10          | -15        | -7.24   | -32.12  | -6.41   | -12.58     | 24.39      | -65.39     |
| 162 | 3           | 10          | -10        | -3.59   | -7.66   | -10.52  | -3.78      | 21.40      | -13.04     |
| 166 | 3           | 10          | -5         | -2.74   | -2.74   | -11.35  | -1.76      | 19.20      | -5.34      |
| 170 | 3           | 10          | 0          | -2.11   | -0.30   | -11.74  | -0.32      | 16.51      | -1.16      |
| 174 | 3           | 10          | 5          | -1.82   | 1.84    | -12.10  | 0.83       | 13.99      | 1.45       |
| 186 | 3           | 10          | 5          | -1.69   | 1.83    | -12.10  | 0.74       | 13.89      | 1.34       |
| 190 | 3           | 10          | 10         | -1.56   | 4.13    | -12.49  | 1.82       | 12.50      | 3.40       |
| 194 | 3           | 10          | 15         | -1.49   | 6.89    | -12.98  | 3.17       | 11.81      | 5.89       |
| 222 | 3           | 20          | -15        | -4.98   | -23.37  | -4.02   | -8.93      | 14.94      | -44.26     |
| 224 | 3           | 20          | -14        | -6.89   | -31.29  | -1.24   | -11.11     | 16.00      | -62.39     |
| 223 | 3           | 20          | -13        | -6.31   | -24.90  | -3.53   | -9.48      | 17.51      | -48.50     |
| 218 | 3           | 20          | -10        | -3.78   | -10.19  | -8.75   | -4.37      | 19.18      | -17.72     |
| 214 | 3           | 20          | -5         | -2.69   | -4.53   | -10.75  | -2.36      | 18.48      | -8.19      |
| 210 | 3           | 20          | 0          | -2.07   | -2.32   | -11.52  | -1.16      | 16.27      | -4.08      |
| 206 | 3           | 20          | 5          | -1.72   | -0.39   | -12.20  | -0.20      | 13.76      | -1.22      |
| 202 | 3           | 20          | 10         | -1.52   | 1.76    | -12.97  | 0.78       | 12.55      | 1.18       |
| 198 | 3           | 20          | 15         | -1.40   | 3.85    | -13.73  | 1.65       | 12.02      | 2.96       |
| 422 | 6           | -10         | -15        | -0.36   | -0.93   | -11.93  | -0.30      | 6.94       | -0.22      |
| 418 | 6           | -10         | -10        | -0.29   | 0.33    | -11.70  | 0.28       | 7.36       | 0.53       |
| 414 | 6           | -10         | -5         | -0.30   | 1.40    | -11.52  | 0.79       | 7.94       | 1.19       |
| 396 | 6           | -10         | 0          | -0.60   | 2.79    | -11.30  | 1.58       | 9.13       | 2.43       |
| 400 | 6           | -10         | 5          | -1.07   | 5.00    | -10.96  | 2.63       | 11.20      | 4.10       |
| 404 | 6           | -10         | 10         | -1.80   | 10.72   | -10.03  | 4.88       | 13.79      | 8.65       |
| 408 | 6           | -10         | 15         | -2.72   | 25.79   | -7.47   | 9.92       | 19.76      | 24.44      |
| 298 | 6           | 0           | -15        | -0.59   | -3.74   | -11.62  | -2.21      | 7.06       | -1.82      |
| 294 | 6           | 0           | -10        | -0.50   | -2.01   | -11.61  | -1.25      | 6.98       | -0.83      |
| 290 | 6           | 0           | -5         | -0.29   | -0.40   | -11.58  | -0.38      | 6.65       | -0.05      |
| 270 | 6           | 0           | 0          | -0.25   | 1.54    | -11.58  | 0.91       | 6.76       | 1.64       |
| 272 | 6           | 0           | 0          | -0.19   | 1.12    | -11.57  | 0.51       | 6.64       | 0.65       |
| 276 | 6           | 0           | 5          | -0.46   | 2.74    | -11.60  | 1.42       | 6.70       | 1.55       |
| 281 | 6           | 0           | 10         | -0.55   | 4.34    | -11.61  | 2.31       | 6.87       | 2.35       |
| 286 | 6           | 0           | 15         | -0.67   | 6.22    | -11.62  | 3.37       | 7.31       | 3.58       |
| 303 | 6           | 10          | -15        | -1.28   | -7.36   | -10.57  | -3.97      | 12.51      | -5.98      |
| 307 | 6           | 10          | -10        | -0.97   | -3.75   | -11.17  | -2.38      | 10.36      | -3.01      |
| 311 | 6           | 10          | -5         | -0.58   | -2.17   | -11.41  | -1.46      | 8.32       | -1.46      |
| 322 | 6           | 10          | -5         | -0.62   | -2.36   | -11.38  | -1.69      | 8.28       | -1.92      |
| 327 | 6           | 10          | 0          | -0.35   | -0.94   | -11.60  | -0.90      | 6.99       | -0.70      |
| 331 | 6           | 10          | 5          | -0.16   | 0.14    | -11.77  | -0.38      | 6.57       | -0.15      |
| 335 | 6           | 10          | 10         | -0.26   | 1.34    | -11.99  | 0.13       | 5.78       | 0.35       |
| 339 | 6           | 10          | 15         | -0.28   | 2.79    | -12.25  | 0.73       | 5.64       | 1.13       |
| 367 | 6           | 20          | -15        | -2.27   | -16.72  | -6.46   | -6.41      | 12.92      | -16.47     |
| 363 | 6           | 20          | -10        | -1.68   | -7.57   | -9.73   | -3.77      | 12.57      | -7.12      |
| 359 | 6           | 20          | -5         | -1.38   | -3.44   | -11.20  | -2.33      | 11.34      | -3.55      |
| 343 | 6           | 20          | 0          | -0.58   | -2.51   | -11.45  | -1.78      | 8.25       | -2.05      |
| 347 | 6           | 20          | 5          | -0.39   | -2.00   | -11.61  | -1.61      | 6.51       | -1.42      |
| 351 | 6           | 20          | 10         | -0.24   | -1.74   | -11.69  | -1.54      | 5.67       | -1.16      |
| 355 | 6           | 20          | 15         | -0.14   | -1.60   | -11.73  | -1.58      | 5.29       | -1.20      |

\* Indicates model was close to heave stop

TABLE 7.220.1 - STABILITY DATA IN BODY AXES AT TRANSOM

20 deg Deadrise, L/R = 0.234, Cv = 0

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 2934 | 0           | -10         | -15        | 0.00    | 1.92    | -11.33  | 1.17       | 17.73      | 3.00       |
| 2930 | 0           | -10         | -10        | -0.02   | 1.94    | -11.33  | 1.21       | 17.79      | 3.01       |
| 2926 | 0           | -10         | -5         | -0.03   | 1.98    | -11.32  | 1.25       | 17.81      | 3.05       |
| 2912 | 0           | -10         | 0          | -0.04   | 1.95    | -11.32  | 1.16       | 17.93      | 3.08       |
| 2916 | 0           | -10         | 5          | -0.01   | 2.01    | -11.31  | 1.27       | 17.82      | 3.17       |
| 2920 | 0           | -10         | 10         | -0.01   | 1.97    | -11.32  | 1.24       | 17.85      | 3.11       |
| 2924 | 0           | -10         | 15         | -0.01   | 1.95    | -11.32  | 1.18       | 17.82      | 3.07       |
| 2830 | 0           | 0           | -15        | -0.04   | -0.08   | -11.49  | 0.09       | 17.67      | -0.15      |
| 2831 | 0           | 0           | -15        | -0.05   | -0.08   | -11.49  | 0.09       | 17.68      | -0.15      |
| 2825 | 0           | 0           | -10        | -0.05   | -0.06   | -11.49  | 0.08       | 17.78      | -0.12      |
| 2821 | 0           | 0           | -5         | -0.05   | -0.04   | -11.49  | 0.11       | 17.89      | -0.09      |
| 2797 | 0           | 0           | 0          | -0.03   | 0.02    | -11.49  | 0.12       | 17.94      | 0.01       |
| 2802 | 0           | 0           | 5          | -0.05   | 0.01    | -11.49  | 0.11       | 17.87      | 0.01       |
| 2816 | 0           | 0           | 10         | -0.07   | 0.07    | -11.49  | 0.20       | 17.91      | 0.22       |
| 2859 | 0           | 10          | -15        | -0.05   | -2.10   | -11.30  | -1.11      | 17.37      | -3.30      |
| 2855 | 0           | 10          | -10        | -0.06   | -2.04   | -11.31  | -1.03      | 17.32      | -3.17      |
| 2851 | 0           | 10          | -5         | -0.06   | -2.03   | -11.31  | -1.03      | 17.56      | -3.18      |
| 2835 | 0           | 10          | 0          | -0.02   | -2.08   | -11.30  | -1.09      | 17.65      | -3.26      |
| 2839 | 0           | 10          | 5          | -0.02   | -2.05   | -11.31  | -1.04      | 17.54      | -3.15      |
| 2843 | 0           | 10          | 10         | -0.05   | -2.05   | -11.31  | -1.05      | 17.57      | -3.18      |
| 2847 | 0           | 10          | 15         | -0.06   | -2.06   | -11.30  | -1.06      | 17.59      | -3.19      |
| 2895 | 0           | 20          | -15        | -0.08   | -3.98   | -10.78  | -1.88      | 16.27      | -6.00      |
| 2889 | 0           | 20          | -10        | -0.06   | -3.93   | -10.80  | -1.80      | 16.63      | -6.04      |
| 2891 | 0           | 20          | -10        | -0.07   | -3.97   | -10.78  | -1.84      | 16.64      | -6.11      |
| 2880 | 0           | 20          | -5         | -0.05   | -4.00   | -10.77  | -1.79      | 20.05      | -7.46      |
| 2885 | 0           | 20          | -5         | -0.05   | -3.96   | -10.79  | -1.81      | 16.69      | -6.12      |
| 2864 | 0           | 20          | 0          | -0.04   | -3.98   | -10.78  | -1.86      | 16.78      | -6.21      |
| 2868 | 0           | 20          | 5          | -0.01   | -4.00   | -10.77  | -1.84      | 16.69      | -6.21      |
| 2872 | 0           | 20          | 10         | -0.03   | -3.99   | -10.78  | -1.83      | 16.69      | -6.18      |
| 2876 | 0           | 20          | 15         | -0.07   | -3.96   | -10.79  | -1.83      | 16.73      | -6.14      |
| 3072 | 3           | -10         | -15        | 0.60    | 1.97    | -11.30  | 1.18       | 12.41      | 2.23       |
| 3068 | 3           | -10         | -10        | 0.59    | 1.99    | -11.30  | 1.24       | 12.41      | 2.25       |
| 3064 | 3           | -10         | -5         | 0.58    | 2.01    | -11.30  | 1.24       | 12.45      | 2.31       |
| 3047 | 3           | -10         | 0          | 0.63    | 1.91    | -11.31  | 1.15       | 12.57      | 2.11       |
| 3051 | 3           | -10         | 5          | 0.59    | 1.97    | -11.30  | 1.20       | 12.46      | 2.25       |
| 3056 | 3           | -10         | 10         | 0.59    | 1.98    | -11.30  | 1.19       | 12.45      | 2.27       |
| 3061 | 3           | -10         | 15         | 0.59    | 2.00    | -11.30  | 1.20       | 12.41      | 2.28       |
| 2967 | 3           | 0           | -15        | 0.60    | -0.01   | -11.47  | 0.14       | 12.19      | 0.02       |
| 2962 | 3           | 0           | -10        | 0.60    | -0.02   | -11.47  | 0.13       | 12.19      | 0.03       |
| 2958 | 3           | 0           | -5         | 0.59    | -0.02   | -11.47  | 0.15       | 12.18      | 0.01       |
| 2942 | 3           | 0           | 0          | 0.61    | -0.04   | -11.47  | 0.11       | 12.41      | -0.04      |
| 2946 | 3           | 0           | 5          | 0.60    | -0.02   | -11.47  | 0.15       | 12.26      | 0.06       |
| 2950 | 3           | 0           | 10         | 0.58    | -0.02   | -11.48  | 0.14       | 12.27      | 0.02       |
| 2954 | 3           | 0           | 15         | 0.57    | -0.04   | -11.48  | 0.10       | 12.29      | -0.05      |

\* Indicates model was close to heave stop

TABLE 7.220.2 - STABILITY DATA IN BODY AXES AT TRANSOM

20 deg Deadrise, L/R = 0.234, Cv = 0

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 2984 | 3           | 10          | -15        | 0.61    | -2.00   | -11.30  | -0.88      | 12.23      | -2.19      |
| 2980 | 3           | 10          | -10        | 0.60    | -2.04   | -11.29  | -0.94      | 12.21      | -2.29      |
| 2976 | 3           | 10          | -5         | 0.59    | -2.03   | -11.29  | -0.95      | 12.26      | -2.27      |
| 2972 | 3           | 10          | 0          | 0.60    | -1.94   | -11.31  | -0.85      | 12.48      | -2.13      |
| 2989 | 3           | 10          | 5          | 0.57    | -2.02   | -11.30  | -0.92      | 12.18      | -2.25      |
| 2993 | 3           | 10          | 10         | 0.59    | -2.00   | -11.30  | -0.88      | 12.17      | -2.17      |
| 2997 | 3           | 10          | 15         | 0.58    | -2.03   | -11.29  | -0.95      | 12.17      | -2.26      |
| 3042 | 3           | 20          | -15        | 0.57    | -3.94   | -10.78  | -1.75      | 12.03      | -4.49      |
| 3037 | 3           | 20          | -10        | 0.58    | -3.95   | -10.77  | -1.78      | 12.09      | -4.49      |
| 3033 | 3           | 20          | -5         | 0.57    | -3.94   | -10.78  | -1.74      | 12.11      | -4.52      |
| 3003 | 3           | 20          | 0          | 0.58    | -3.92   | -10.78  | -1.75      | 12.09      | -4.47      |
| 3007 | 3           | 20          | 5          | 0.58    | -3.97   | -10.77  | -1.81      | 11.90      | -4.51      |
| 3    | 3           | 20          | 10         | 0.60    | -3.97   | -10.77  | -1.83      | 12.10      | -4.53      |
| 3L   | 3           | 20          | 15         | 0.57    | -3.99   | -10.76  | -1.88      | 12.08      | -4.53      |
| 3198 | 6           | -10         | -15        | 1.21    | 2.03    | -11.24  | 1.15       | 8.70       | 1.80       |
| 3194 | 6           | -10         | -10        | 1.21    | 2.03    | -11.24  | 1.15       | 8.91       | 1.83       |
| 3190 | 6           | -10         | -5         | 1.21    | 2.03    | -11.24  | 1.14       | 8.72       | 1.79       |
| 3186 | 6           | -10         | 0          | 1.22    | 2.05    | -11.24  | 1.13       | 9.07       | 1.88       |
| 3202 | 6           | -10         | 5          | 1.20    | 2.03    | -11.24  | 1.17       | 8.92       | 1.84       |
| 3206 | 6           | -10         | 10         | 1.19    | 2.02    | -11.25  | 1.10       | 8.93       | 1.80       |
| 3210 | 6           | -10         | 15         | 1.20    | 2.03    | -11.24  | 1.12       | 9.01       | 1.85       |
| 3106 | 6           | 0           | -15        | 1.21    | 0.03    | -11.43  | 0.20       | 8.76       | 0.10       |
| 3101 | 6           | 0           | -10        | 1.21    | 0.04    | -11.43  | 0.22       | 8.71       | 0.13       |
| 3097 | 6           | 0           | -5         | 1.19    | 0.02    | -11.43  | 0.20       | 8.81       | 0.10       |
| 3079 | 6           | 0           | 0          | 1.21    | 0.02    | -11.43  | 0.15       | 8.84       | 0.05       |
| 3093 | 6           | 0           | 15         | 1.20    | 0.02    | -11.43  | 0.18       | 8.81       | 0.10       |
| 3150 | 6           | 10          | -15        | 1.22    | -1.96   | -11.25  | -0.75      | 8.78       | -1.57      |
| 3146 | 6           | 10          | -10        | 1.21    | -1.95   | -11.26  | -0.75      | 8.80       | -1.56      |
| 3142 | 6           | 10          | -5         | 1.21    | -1.96   | -11.26  | -0.74      | 8.82       | -1.57      |
| 3125 | 6           | 10          | 0          | 1.27    | -1.89   | -11.26  | -0.72      | 9.31       | -1.50      |
| 3129 | 6           | 10          | 5          | 1.21    | -1.97   | -11.25  | -0.79      | 8.81       | -1.58      |
| 3134 | 6           | 10          | 10         | 1.20    | -1.97   | -11.26  | -0.80      | 8.90       | -1.59      |
| 3138 | 6           | 10          | 15         | 1.17    | -1.98   | -11.26  | -0.80      | 8.91       | -1.64      |
| 3168 | 6           | 20          | -15        | 1.20    | -3.85   | -10.76  | -1.60      | 8.69       | -3.17      |
| 3164 | 6           | 20          | -10        | 1.20    | -3.88   | -10.75  | -1.64      | 8.68       | -3.23      |
| 3160 | 6           | 20          | -5         | 1.20    | -3.85   | -10.76  | -1.58      | 8.88       | -3.25      |
| 3156 | 6           | 20          | 0          | 1.23    | -3.89   | -10.74  | -1.67      | 8.98       | -3.36      |
| 3172 | 6           | 20          | 5          | 1.20    | -3.92   | -10.73  | -1.69      | 8.56       | -3.28      |
| 3176 | 6           | 20          | 10         | 1.21    | -3.87   | -10.75  | -1.63      | 9.07       | -3.35      |
| 3180 | 6           | 20          | 15         | 1.19    | -3.85   | -10.76  | -1.61      | 8.94       | -3.25      |

\* Indicates model was close to heave stop

TABLE 7.221.1 - STABILITY DATA IN BODY AXES AT TRANSOM

20 deg Deadrise, L/R = 0.234, Cv = 1.5

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|--------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 2935   | 0           | -10         | -15        | -1.99   | -3.60   | -12.30  | -0.38      | 26.40      | -13.73     |
| 2936   | 0           | -10         | -15        | -1.92   | -3.48   | -12.28  | -0.35      | 26.25      | -13.35     |
| 2931   | 0           | -10         | -10        | -1.60   | -0.85   | -11.82  | 0.40       | 23.99      | -5.79      |
| 2927   | 0           | -10         | -5         | -1.41   | 0.86    | -11.52  | 0.95       | 22.78      | -0.66      |
| 2913   | 0           | -10         | 0          | -1.27   | 1.82    | -11.35  | 1.11       | 22.24      | 2.43       |
| 2917   | 0           | -10         | 5          | -1.31   | 2.70    | -11.19  | 1.35       | 22.42      | 5.17       |
| 2921   | 0           | -10         | 10         | -1.70   | 4.40    | -10.89  | 1.72       | 23.23      | 9.20       |
| 2925 * | 0           | -10         | 15         | -2.18   | 7.63    | -10.32  | 2.25       | 24.25      | 17.04      |
| 2832 * | 0           | 0           | -15        | -2.13   | -7.21   | -11.49  | -1.78      | 22.86      | -21.94     |
| 2826   | 0           | 0           | -10        | -1.70   | -3.16   | -11.49  | -0.58      | 22.61      | -10.42     |
| 2822   | 0           | 0           | -5         | -1.38   | -1.22   | -11.49  | -0.02      | 22.03      | -4.65      |
| 2799   | 0           | 0           | 0          | -1.33   | -0.20   | -11.49  | 0.16       | 22.22      | -1.49      |
| 2803   | 0           | 0           | 5          | -1.38   | 0.49    | -11.49  | 0.36       | 22.83      | 0.70       |
| 2817   | 0           | 0           | 10         | -1.58   | 1.83    | -11.49  | 0.72       | 24.11      | 4.18       |
| 2860 * | 0           | 10          | -15        | -2.40   | -8.33   | -10.20  | -2.16      | 19.74      | -23.82     |
| 2856   | 0           | 10          | -10        | -1.82   | -5.64   | -10.67  | -1.72      | 19.85      | -15.63     |
| 2852   | 0           | 10          | -5         | -1.48   | -3.40   | -11.07  | -1.19      | 20.56      | -8.95      |
| 2836   | 0           | 10          | 0          | -1.30   | -2.37   | -11.25  | -1.11      | 21.27      | -5.77      |
| 2840   | 0           | 10          | 5          | -1.33   | -1.50   | -11.40  | -0.82      | 22.31      | -3.27      |
| 2844   | 0           | 10          | 10         | -1.54   | -0.45   | -11.59  | -0.40      | 23.84      | -0.62      |
| 2848   | 0           | 10          | 15         | -1.98   | 1.81    | -11.99  | 0.28       | 27.26      | 4.37       |
| 2849   | 0           | 10          | 15         | -1.99   | 1.81    | -11.99  | 0.31       | 27.25      | 4.35       |
| 2894 * | 0           | 20          | -15        | -2.58   | -10.11  | -8.55   | -2.67      | 15.22      | -27.26     |
| 2890   | 0           | 20          | -10        | -1.89   | -6.73   | -9.78   | -2.21      | 17.33      | -16.83     |
| 2886   | 0           | 20          | -5         | -1.51   | -5.28   | -10.30  | -2.04      | 18.61      | -12.40     |
| 2865   | 0           | 20          | 0          | -1.27   | -4.19   | -10.70  | -1.89      | 19.94      | -9.33      |
| 2869   | 0           | 20          | 5          | -1.26   | -3.39   | -10.99  | -1.72      | 21.14      | -7.21      |
| 2873   | 0           | 20          | 10         | -1.38   | -2.26   | -11.40  | -1.35      | 23.31      | -4.54      |
| 2877   | 0           | 20          | 15         | -1.75   | -0.45   | -12.06  | -0.67      | 26.65      | -0.64      |
| 3073   | 3           | -10         | -15        | -0.91   | -1.25   | -11.95  | -0.09      | 20.19      | -4.09      |
| 3069   | 3           | -10         | -10        | -0.78   | 0.51    | -11.64  | 0.72       | 18.17      | -0.76      |
| 3065   | 3           | -10         | -5         | -0.70   | 1.70    | -11.42  | 1.19       | 17.15      | 1.54       |
| 3048   | 3           | -10         | 0          | -0.64   | 2.50    | -11.28  | 1.48       | 16.85      | 2.99       |
| 3052   | 3           | -10         | 5          | -0.73   | 3.46    | -11.11  | 1.78       | 17.16      | 4.73       |
| 3057   | 3           | -10         | 10         | -0.93   | 5.07    | -10.84  | 2.15       | 18.09      | 7.52       |
| 3060   | 3           | -10         | 15         | -1.33   | 8.75    | -10.21  | 3.02       | 19.34      | 13.81      |
| 2968   | 3           | 0           | -15        | -1.05   | -4.05   | -11.56  | -1.39      | 17.97      | -9.24      |
| 2963   | 3           | 0           | -10        | -0.83   | -1.79   | -11.55  | -0.54      | 16.81      | -4.33      |
| 2959   | 3           | 0           | -5         | -0.76   | -0.53   | -11.55  | -0.08      | 16.58      | -1.79      |
| 2943   | 3           | 0           | 0          | -0.67   | 0.29    | -11.54  | 0.30       | 16.73      | -0.28      |
| 2947   | 3           | 0           | 5          | -0.74   | 1.17    | -11.54  | 0.68       | 17.32      | 1.26       |
| 2951   | 3           | 0           | 10         | -0.92   | 2.51    | -11.55  | 1.10       | 18.52      | 3.39       |
| 2955   | 3           | 0           | 15         | -1.25   | 5.34    | -11.57  | 1.95       | 20.70      | 7.73       |

\* Indicates model was close to heave stop

TABLE 7.221.2 - STABILITY DATA IN BODY AXES AT TRANSOM

20 deg Deadrise, L/R = 0.234, CV = 1.5

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 2985 | 3           | 10          | -15        | -1.10   | -6.08   | -10.67  | -2.22      | 15.78      | -12.21     |
| 2986 | 3           | 10          | -15        | -1.09   | -6.07   | -10.67  | -2.19      | 15.79      | -12.27     |
| 2981 | 3           | 10          | -10        | -0.88   | -3.77   | -11.06  | -1.51      | 15.86      | -7.25      |
| 2977 | 3           | 10          | -5         | -0.78   | -2.63   | -11.26  | -1.19      | 15.96      | -4.84      |
| 2973 | 3           | 10          | 0          | -0.70   | -1.66   | -11.43  | -0.78      | 16.33      | -2.98      |
| 2990 | 3           | 10          | 5          | -0.76   | -0.96   | -11.55  | -0.56      | 16.93      | -1.94      |
| 2994 | 3           | 10          | 10         | -0.81   | 0.30    | -11.78  | 0.13       | 18.43      | -0.18      |
| 2998 | 3           | 10          | 15         | -1.04   | 2.12    | -12.11  | 0.78       | 20.86      | 2.35       |
| 3043 | 3           | 20          | -15        | -1.18   | -7.50   | -9.58   | -2.28      | 13.98      | -14.51     |
| 3038 | 3           | 20          | -10        | -0.86   | -5.79   | -10.18  | -2.19      | 14.43      | -10.26     |
| 3034 | 3           | 20          | -5         | -0.82   | -4.29   | -10.73  | -1.79      | 15.31      | -7.11      |
| 3004 | 3           | 20          | 0          | -0.72   | -3.54   | -11.00  | -1.68      | 15.84      | -5.77      |
| 3008 | 3           | 20          | 5          | -0.73   | -2.65   | -11.32  | -1.40      | 16.56      | -4.42      |
| 3025 | 3           | 20          | 10         | -0.68   | -1.52   | -11.73  | -0.99      | 17.84      | -2.97      |
| 3030 | 3           | 20          | 15         | -0.82   | -0.29   | -12.19  | -0.42      | 20.06      | -1.44      |
| 3199 | 6           | -10         | -15        | -0.33   | -0.74   | -11.90  | 0.00       | 14.61      | -0.79      |
| 3195 | 6           | -10         | -10        | -0.31   | 0.48    | -11.68  | 0.56       | 13.66      | 0.38       |
| 3191 | 6           | -10         | -5         | -0.32   | 1.62    | -11.48  | 1.05       | 13.09      | 1.46       |
| 3187 | 6           | -10         | 0          | -0.31   | 2.81    | -11.27  | 1.54       | 12.87      | 2.74       |
| 3203 | 6           | -10         | 5          | -0.45   | 4.01    | -11.07  | 2.03       | 13.16      | 4.12       |
| 3207 | 6           | -10         | 10         | -0.57   | 5.78    | -10.77  | 2.55       | 13.77      | 6.03       |
| 3211 | 6           | -10         | 15         | -0.73   | 9.15    | -10.20  | 3.54       | 15.00      | 10.07      |
| 3212 | 6           | -10         | 15         | -0.84   | 9.43    | -10.16  | 3.69       | 14.91      | 10.49      |
| 3107 | 6           | 0           | -15        | -0.42   | -2.67   | -11.60  | -1.00      | 13.52      | -3.47      |
| 3102 | 6           | 0           | -10        | -0.37   | -1.40   | -11.59  | -0.45      | 12.92      | -1.93      |
| 3098 | 6           | 0           | -5         | -0.37   | -0.28   | -11.59  | 0.06       | 12.85      | -0.65      |
| 3082 | 6           | 0           | 0          | -0.28   | 0.78    | -11.58  | 0.54       | 12.92      | 0.50       |
| 3085 | 6           | 0           | 5          | -0.35   | 1.83    | -11.59  | 1.01       | 13.35      | 1.60       |
| 3090 | 6           | 0           | 10         | -0.49   | 3.32    | -11.61  | 1.63       | 14.19      | 3.14       |
| 3094 | 6           | 0           | 15         | -0.62   | 5.59    | -11.62  | 2.32       | 15.57      | 5.40       |
| 3151 | 6           | 10          | -15        | -0.50   | -4.81   | -10.94  | -1.88      | 12.70      | -5.98      |
| 3147 | 6           | 10          | -10        | -0.38   | -3.20   | -11.21  | -1.32      | 12.53      | -3.85      |
| 3143 | 6           | 10          | -5         | -0.36   | -2.05   | -11.41  | -0.82      | 12.57      | -2.45      |
| 3126 | 6           | 10          | 0          | -0.28   | -0.97   | -11.59  | -0.39      | 12.91      | -1.26      |
| 3130 | 6           | 10          | 5          | -0.30   | 0.14    | -11.79  | 0.05       | 13.54      | -0.45      |
| 3135 | 6           | 10          | 10         | -0.37   | 1.25    | -11.99  | 0.60       | 14.55      | 0.61       |
| 3139 | 6           | 10          | 15         | -0.53   | 2.82    | -12.29  | 1.29       | 15.88      | 2.06       |
| 3169 | 6           | 20          | -15        | -0.58   | -7.36   | -9.68   | -2.69      | 11.26      | -9.12      |
| 3165 | 6           | 20          | -10        | -0.50   | -5.30   | -10.42  | -2.15      | 11.66      | -6.27      |
| 3161 | 6           | 20          | -5         | -0.46   | -3.98   | -10.90  | -1.69      | 12.12      | -4.59      |
| 3157 | 6           | 20          | 0          | -0.42   | -2.90   | -11.29  | -1.39      | 12.62      | -3.45      |
| 3173 | 6           | 20          | 5          | -0.56   | -1.52   | -11.80  | -0.82      | 13.41      | -2.07      |
| 3177 | 6           | 20          | 10         | -0.50   | -0.38   | -12.21  | -0.26      | 14.70      | -1.23      |
| 3181 | 6           | 20          | 15         | -0.49   | 0.64    | -12.58  | 0.31       | 15.60      | -0.26      |

\* Indicates model was close to heave stop

TABLE 7.223.1 - STABILITY DATA IN BODY AXES AT TRANSOM

20 deg Deadrise, L/R = 0.234, Cv = 3

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|--------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 2937 * | 0           | -10         | -15        | -7.93   | -21.90  | -15.53  | -6.91      | 42.37      | -62.63     |
| 2939 * | 0           | -10         | -15        | -7.72   | -22.01  | -15.55  | -6.79      | 40.71      | -63.30     |
| 2932   | 0           | -10         | -10        | -5.37   | -9.48   | -13.34  | -2.39      | 37.00      | -30.71     |
| 2928   | 0           | -10         | -5         | -4.37   | -2.92   | -12.18  | -0.34      | 31.53      | -11.71     |
| 2914   | 0           | -10         | 0          | -4.06   | 1.30    | -11.44  | 1.03       | 27.44      | -0.89      |
| 2918   | 0           | -10         | 5          | -4.85   | 6.41    | -10.54  | 2.31       | 28.84      | 8.65       |
| 2922 * | 0           | -10         | 10         | -6.40   | 17.73   | -8.54   | 5.27       | 30.61      | 30.94      |
| 2833 * | 0           | 0           | -15        | -7.07   | -28.64  | -11.49  | -8.48      | 27.22      | -81.71     |
| 2828   | 0           | 0           | -10        | -5.84   | -13.04  | -11.49  | -3.29      | 25.63      | -39.24     |
| 2823   | 0           | 0           | -5         | -4.38   | -4.65   | -11.49  | -0.93      | 26.43      | -16.12     |
| 2800   | 0           | 0           | 0          | -4.05   | -0.69   | -11.49  | 0.38       | 27.34      | -5.45      |
| 2804   | 0           | 0           | 5          | -4.53   | 2.82    | -11.49  | 1.41       | 30.72      | 2.78       |
| 2818 * | 0           | 0           | 10         | -6.37   | 13.73   | -11.49  | 4.43       | 36.73      | 20.77      |
| 2857   | 0           | 10          | -10        | -5.68   | -18.19  | -8.46   | -4.95      | 13.72      | -52.16     |
| 2853   | 0           | 10          | -5         | -4.54   | -7.44   | -10.36  | -2.10      | 19.73      | -21.88     |
| 2837   | 0           | 10          | 0          | -4.00   | -2.76   | -11.18  | -0.79      | 23.39      | -9.64      |
| 2841   | 0           | 10          | 5          | -4.14   | 0.51    | -11.76  | 0.60       | 28.75      | -2.10      |
| 2845   | 0           | 10          | 10         | -4.95   | 5.71    | -12.67  | 2.59       | 34.22      | 7.95       |
| 2850 * | 0           | 10          | 15         | -6.86   | 20.33   | -15.25  | 7.28       | 45.65      | 33.35      |
| 2896 * | 0           | 20          | -15        | -9.24   | -30.73  | -1.04   | -8.92      | 18.91      | -89.67     |
| 2892   | 0           | 20          | -10        | -6.14   | -15.68  | -6.52   | -4.36      | 21.23      | -45.03     |
| 2887   | 0           | 20          | -5         | -4.43   | -9.60   | -8.73   | -2.95      | 15.69      | -26.02     |
| 2866   | 0           | 20          | 0          | -3.88   | -4.85   | -10.46  | -1.88      | 20.01      | -13.16     |
| 2870   | 0           | 20          | 5          | -3.79   | -1.39   | -11.72  | -0.53      | 25.38      | -6.19      |
| 2874   | 0           | 20          | 10         | -3.45   | 1.22    | -12.67  | 0.75       | 28.25      | -1.17      |
| 2878   | 0           | 20          | 15         | -3.05   | 3.57    | -13.53  | 1.48       | 28.23      | 3.15       |
| 2883   | 0           | 20          | 15         | -3.07   | 3.43    | -13.48  | 1.33       | 28.42      | 2.90       |
| 3074   | 3           | -10         | -15        | -1.66   | -3.24   | -12.34  | -1.15      | 20.73      | -6.06      |
| 3070   | 3           | -10         | -10        | -1.70   | -1.20   | -11.99  | -0.05      | 20.78      | -2.78      |
| 3066   | 3           | -10         | -5         | -1.79   | 0.70    | -11.66  | 0.94       | 20.87      | 0.46       |
| 3049   | 3           | -10         | 0          | -2.04   | 3.58    | -11.16  | 2.12       | 20.12      | 4.14       |
| 3053   | 3           | -10         | 5          | -2.61   | 7.35    | -10.53  | 3.43       | 21.12      | 9.26       |
| 3054   | 3           | -10         | 5          | -2.59   | 7.38    | -10.52  | 3.44       | 21.04      | 9.32       |
| 3058   | 3           | -10         | 10         | -3.78   | 16.73   | -8.93   | 6.31       | 24.40      | 23.07      |
| 3062 * | 3           | -10         | 15         | -5.75   | 35.98   | -5.64   | 11.69      | 29.26      | 58.13      |
| 2969   | 3           | 0           | -15        | -3.85   | -13.86  | -11.71  | -5.36      | 25.89      | -29.56     |
| 2964   | 3           | 0           | -10        | -2.45   | -4.62   | -11.63  | -1.85      | 20.64      | -10.63     |
| 2960   | 3           | 0           | -5         | -2.08   | -1.06   | -11.61  | -0.29      | 18.88      | -3.44      |
| 2944   | 3           | 0           | 0          | -2.00   | 1.03    | -11.61  | 0.69       | 18.98      | -0.11      |
| 2948   | 3           | 0           | 5          | -2.14   | 3.83    | -11.62  | 2.00       | 20.23      | 3.82       |
| 2953   | 3           | 0           | 10         | -2.76   | 8.58    | -11.65  | 3.95       | 23.50      | 9.82       |
| 2956   | 3           | 0           | 15         | -4.43   | 20.97   | -11.74  | 8.05       | 32.52      | 27.89      |

\* Indicates model was close to heave stop

TABLE 7.223.2 - STABILITY DATA IN BODY AXES AT TRANSOM

20 deg Deadrise, L/R = 0.234, Cv = 3

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 2987 | 3           | 10          | -15        | -2.30   | -9.31   | -10.16  | -4.03      | 24.23      | -16.69     |
| 2982 | 3           | 10          | -10        | -2.88   | -7.05   | -10.59  | -2.82      | 18.19      | -14.12     |
| 2978 | 3           | 10          | -5         | -2.18   | -2.64   | -11.33  | -1.29      | 17.67      | -5.88      |
| 2974 | 3           | 10          | 0          | -1.89   | -0.63   | -11.67  | -0.26      | 17.99      | -2.63      |
| 2991 | 3           | 10          | 5          | -1.58   | 1.11    | -11.96  | 0.74       | 17.67      | 0.17       |
| 2995 | 3           | 10          | 10         | -1.55   | 3.19    | -12.33  | 1.98       | 17.34      | 2.97       |
| 2999 | 3           | 10          | 15         | -1.56   | 5.79    | -12.79  | 3.46       | 17.53      | 6.15       |
| 3044 | 3           | 20          | -15        | -2.98   | -14.13  | -7.27   | -4.28      | 19.34      | -27.16     |
| 3039 | 3           | 20          | -10        | -2.61   | -9.07   | -9.09   | -3.32      | 18.33      | -17.23     |
| 3035 | 3           | 20          | -5         | -2.30   | -4.42   | -10.76  | -1.98      | 16.63      | -7.67      |
| 3005 | 3           | 20          | 0          | -1.94   | -1.64   | -11.75  | -0.92      | 17.34      | -3.97      |
| 3009 | 3           | 20          | 5          | -1.71   | 0.01    | -12.34  | -0.02      | 16.59      | -1.63      |
| 3026 | 3           | 20          | 10         | -1.38   | 1.04    | -12.70  | 0.42       | 14.86      | -0.36      |
| 3031 | 3           | 20          | 15         | -1.19   | 2.19    | -13.11  | 0.86       | 12.83      | 0.95       |
| 3200 | 6           | -10         | -15        | -0.49   | -0.99   | -11.96  | -0.19      | 9.35       | -0.30      |
| 3196 | 6           | -10         | -10        | -0.63   | 0.01    | -11.80  | 0.36       | 10.68      | 0.35       |
| 3192 | 6           | -10         | -5         | -0.64   | 1.13    | -11.60  | 1.03       | 12.23      | 1.41       |
| 3188 | 6           | -10         | 0          | -1.11   | 3.58    | -11.22  | 2.21       | 13.25      | 3.32       |
| 3204 | 6           | -10         | 5          | -1.49   | 7.17    | -10.63  | 3.60       | 14.28      | 6.29       |
| 3208 | 6           | -10         | 10         | -1.84   | 13.11   | -9.62   | 5.79       | 16.17      | 12.10      |
| 3213 | 6           | -10         | 15         | -3.00   | 28.05   | -7.11   | 10.62      | 21.16      | 31.51      |
| 3108 | 6           | 0           | -15        | -0.91   | -2.98   | -11.65  | -1.46      | 12.04      | -3.10      |
| 3103 | 6           | 0           | -10        | -0.63   | -1.31   | -11.62  | -0.53      | 11.51      | -1.42      |
| 3104 | 6           | 0           | -10        | -0.65   | -1.33   | -11.62  | -0.53      | 11.22      | -1.41      |
| 3099 | 6           | 0           | -5         | -0.68   | 0.06    | -11.62  | 0.34       | 10.96      | -0.03      |
| 3081 | 6           | 0           | 0          | -0.74   | 1.31    | -11.63  | 1.08       | 11.09      | 1.10       |
| 3086 | 6           | 0           | 5          | -0.82   | 3.07    | -11.64  | 2.08       | 11.62      | 2.58       |
| 3091 | 6           | 0           | 10         | -1.08   | 5.79    | -11.67  | 3.43       | 12.71      | 4.69       |
| 3095 | 6           | 0           | 15         | -1.50   | 11.31   | -11.71  | 5.69       | 15.97      | 9.41       |
| 3152 | 6           | 10          | -15        | -1.45   | -6.75   | -10.70  | -2.93      | 14.13      | -7.79      |
| 3148 | 6           | 10          | -10        | -1.13   | -2.95   | -11.33  | -1.47      | 12.99      | -3.61      |
| 3144 | 6           | 10          | -5         | -0.83   | -0.93   | -11.66  | -0.36      | 11.44      | -1.32      |
| 3127 | 6           | 10          | 0          | -0.71   | 0.37    | -11.87  | 0.44       | 9.86       | 0.06       |
| 3131 | 6           | 10          | 5          | -0.58   | 1.44    | -12.05  | 1.05       | 8.35       | 0.63       |
| 3136 | 6           | 10          | 10         | -0.61   | 2.74    | -12.28  | 1.88       | 7.41       | 1.61       |
| 3140 | 6           | 10          | 15         | -0.57   | 3.65    | -12.44  | 2.29       | 6.69       | 1.96       |
| 3170 | 6           | 20          | -15        | -1.86   | -12.53  | -7.94   | -4.53      | 11.62      | -15.85     |
| 3166 | 6           | 20          | -10        | -1.48   | -5.76   | -10.37  | -2.49      | 12.75      | -6.97      |
| 3162 | 6           | 20          | -5         | -1.25   | -2.27   | -11.61  | -1.20      | 12.66      | -3.18      |
| 3158 | 6           | 20          | 0          | -1.14   | -0.02   | -12.42  | -0.24      | 11.71      | -0.83      |
| 3174 | 6           | 20          | 5          | -0.92   | 0.10    | -12.44  | 0.08       | 9.00       | -0.25      |
| 3178 | 6           | 20          | 10         | -0.76   | 0.27    | -12.48  | 0.15       | 7.63       | -0.12      |
| 3182 | 6           | 20          | 15         | -0.80   | 0.97    | -12.74  | 0.40       | 6.48       | 0.52       |

\* Indicates model was close to heave stop



TABLE 7.224.1 - STABILITY DATA IN BODY AXES AT TRANSOM

20 deg Deadrise, L/R = 0.234, Cv = 4

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|--------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 2933   | 0           | -10         | -10        | -8.82   | -17.04  | -14.67  | -4.91      | 52.29      | -55.57     |
| 2929   | 0           | -10         | -5         | -6.91   | -6.40   | -12.80  | -1.51      | 43.16      | -22.49     |
| 2915   | 0           | -10         | 0          | -6.13   | -0.20   | -11.70  | 0.47       | 35.65      | -3.75      |
| 2919   | 0           | -10         | 5          | -8.50   | 10.74   | -9.77   | 3.71       | 35.78      | 12.32      |
| 2829   | 0           | 0           | -10        | -9.78   | -21.15  | -11.49  | -5.51      | 32.32      | -68.37     |
| 2824   | 0           | 0           | -5         | -6.88   | -7.93   | -11.49  | -1.79      | 33.50      | -28.28     |
| 2801   | 0           | 0           | 0          | -6.11   | -1.90   | -11.49  | 0.19       | 34.44      | -10.25     |
| 2805   | 0           | 0           | 5          | -7.16   | 5.26    | -11.49  | 2.48       | 38.12      | 4.77       |
| 2820 * | 0           | 0           | 10         | -9.80   | 22.34   | -11.49  | 7.53       | 46.67      | 33.93      |
| 2858   | 0           | 10          | -10        | -8.90   | -27.53  | -6.81   | -7.00      | 12.01      | -86.05     |
| 2854   | 0           | 10          | -5         | -7.67   | -10.67  | -9.79   | -2.74      | 21.19      | -35.38     |
| 2838   | 0           | 10          | 0          | -6.11   | -3.47   | -11.05  | -0.56      | 28.19      | -15.29     |
| 2842   | 0           | 10          | 5          | -6.53   | 2.26    | -12.07  | 1.79       | 34.87      | -1.76      |
| 2846   | 0           | 10          | 10         | -6.15   | 7.01    | -12.90  | 3.97       | 37.50      | 9.39       |
| 2893   | 0           | 20          | -10        | -10.09  | -22.54  | -4.02   | -6.14      | 25.81      | -72.78     |
| 2888   | 0           | 20          | -5         | -7.16   | -13.30  | -7.39   | -3.66      | 14.47      | -40.54     |
| 2867   | 0           | 20          | 0          | -6.29   | -4.95   | -10.43  | -1.53      | 21.98      | -17.37     |
| 2871   | 0           | 20          | 5          | -5.44   | -0.22   | -12.15  | 0.48       | 28.92      | -7.28      |
| 2875   | 0           | 20          | 10         | -4.19   | 2.30    | -13.07  | 0.84       | 28.27      | -0.98      |
| 2879   | 0           | 20          | 15         | -3.65   | 4.61    | -13.90  | 1.08       | 26.83      | 3.62       |
| 2884   | 0           | 20          | 15         | -3.60   | 4.50    | -13.87  | 1.02       | 26.98      | 3.47       |
| 3075   | 3           | -10         | -15        | -2.21   | -5.29   | -12.73  | -2.03      | 18.19      | -8.45      |
| 3071   | 3           | -10         | -10        | -2.31   | -2.47   | -12.24  | -0.46      | 20.29      | -4.75      |
| 3067   | 3           | -10         | -5         | -2.49   | 0.47    | -11.73  | 1.09       | 22.32      | 0.06       |
| 3050   | 3           | -10         | 0          | -3.03   | 4.38    | -11.07  | 2.75       | 23.13      | 5.23       |
| 3055   | 3           | -10         | 5          | -4.14   | 12.30   | -9.73   | 5.62       | 25.21      | 14.98      |
| 3059   | 3           | -10         | 10         | -6.08   | 28.23   | -7.03   | 10.56      | 31.86      | 38.52      |
| 2970   | 3           | 0           | -15        | -6.15   | -21.61  | -11.83  | -8.60      | 33.14      | -48.45     |
| 2965   | 3           | 0           | -10        | -3.67   | -5.96   | -11.70  | -2.65      | 23.21      | -14.85     |
| 2961   | 3           | 0           | -5         | -2.76   | -1.36   | -11.65  | -0.28      | 20.08      | -4.55      |
| 2945   | 3           | 0           | 0          | -2.77   | 1.78    | -11.65  | 1.16       | 19.76      | 0.63       |
| 2949   | 3           | 0           | 5          | -2.91   | 6.07    | -11.66  | 3.28       | 21.24      | 6.37       |
| 2952   | 3           | 0           | 10         | -3.65   | 12.77   | -11.70  | 6.34       | 25.00      | 14.61      |
| 2957   | 3           | 0           | 15         | -6.36   | 31.76   | -11.84  | 12.67      | 40.60      | 41.94      |

\* Indicates model was close to heave stop

TABLE 7.224.2 - STABILITY DATA IN BODY AXES AT TRANSOM

20 deg Deadrise, L/R = 0.234, Cv = 4

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|------|-------------|-------------|------------|---------|---------|---------|------------|------------|------------|
| 2988 | 3           | 10          | -15        | -3.11   | -13.28  | -9.51   | -5.67      | 21.51      | -22.23     |
| 2983 | 3           | 10          | -10        | -4.81   | -9.46   | -10.27  | -3.88      | 21.18      | -21.46     |
| 2979 | 3           | 10          | -5         | -3.17   | -2.36   | -11.44  | -1.31      | 19.18      | -7.02      |
| 2975 | 3           | 10          | 0          | -2.51   | 0.39    | -11.89  | 0.25       | 16.89      | -1.48      |
| 2992 | 3           | 10          | 5          | -1.90   | 2.90    | -12.30  | 1.78       | 13.02      | 2.22       |
| 2996 | 3           | 10          | 10         | -1.75   | 5.59    | -12.76  | 3.30       | 10.58      | 4.94       |
| 3000 | 3           | 10          | 15         | -1.47   | 7.65    | -13.11  | 4.23       | 7.73       | 6.48       |
| 3045 | 3           | 20          | -15        | -3.96   | -17.72  | -6.01   | -5.36      | 19.30      | -32.44     |
| 3040 | 3           | 20          | -10        | -4.03   | -11.49  | -8.29   | -4.11      | 22.52      | -24.38     |
| 3041 | 3           | 20          | -10        | -4.06   | -11.42  | -8.31   | -4.13      | 22.50      | -24.10     |
| 3036 | 3           | 20          | -5         | -3.88   | -3.18   | -11.30  | -1.58      | 18.92      | -8.11      |
| 3006 | 3           | 20          | 0          | -2.71   | -0.08   | -12.37  | -0.35      | 17.01      | -1.72      |
| 3010 | 3           | 20          | 5          | -1.77   | 0.88    | -12.66  | 0.18       | 12.96      | 0.01       |
| 3027 | 3           | 20          | 10         | -1.27   | 1.74    | -12.95  | 0.47       | 10.37      | 1.03       |
| 3028 | 3           | 20          | 10         | -1.18   | 1.59    | -12.89  | 0.40       | 10.22      | 0.92       |
| 3032 | 3           | 20          | 15         | -0.91   | 2.40    | -13.17  | 0.62       | 7.97       | 1.73       |
| 3201 | 6           | -10         | -15        | -0.56   | -1.17   | -12.00  | 0.02       | 3.62       | -0.39      |
| 3197 | 6           | -10         | -10        | -0.88   | 0.15    | -11.80  | 0.70       | 4.96       | 0.33       |
| 3193 | 6           | -10         | -5         | -0.76   | 1.70    | -11.51  | 1.58       | 7.22       | 1.58       |
| 3189 | 6           | -10         | 0          | -1.37   | 4.15    | -11.15  | 2.83       | 10.56      | 3.57       |
| 3205 | 6           | -10         | 5          | -1.89   | 9.10    | -10.33  | 4.96       | 12.46      | 7.21       |
| 3209 | 6           | -10         | 10         | -2.18   | 16.86   | -8.99   | 7.77       | 15.44      | 13.58      |
| 3109 | 6           | 0           | -15        | -0.89   | -3.15   | -11.65  | -1.55      | 6.01       | -2.00      |
| 3105 | 6           | 0           | -10        | -0.68   | -1.31   | -11.62  | -0.43      | 5.16       | -0.58      |
| 3100 | 6           | 0           | -5         | -0.70   | 0.62    | -11.63  | 0.76       | 4.91       | 0.67       |
| 3083 | 6           | 0           | 0          | -0.70   | 2.50    | -11.63  | 1.89       | 5.11       | 1.93       |
| 3087 | 6           | 0           | 5          | -0.77   | 4.22    | -11.63  | 2.95       | 5.49       | 3.05       |
| 3092 | 6           | 0           | 10         | -0.98   | 6.55    | -11.66  | 4.38       | 6.66       | 4.58       |
| 3096 | 6           | 0           | 15         | -0.16   | 5.15    | -11.57  | 3.35       | 1.06       | 2.34       |
| 3153 | 6           | 10          | -15        | -2.03   | -7.40   | -10.64  | -3.52      | 12.39      | -7.09      |
| 3149 | 6           | 10          | -10        | -1.23   | -2.55   | -11.41  | -1.45      | 9.67       | -2.34      |
| 3145 | 6           | 10          | -5         | -0.93   | -0.66   | -11.71  | -0.22      | 6.25       | -0.17      |
| 3128 | 6           | 10          | 0          | -0.62   | 0.92    | -11.96  | 0.62       | 4.43       | 1.13       |
| 3132 | 6           | 10          | 5          | -0.59   | 2.25    | -12.19  | 1.26       | 3.37       | 1.66       |
| 3137 | 6           | 10          | 10         | -0.38   | 3.27    | -12.35  | 1.78       | 3.42       | 2.04       |
| 3141 | 6           | 10          | 15         | -0.47   | 4.55    | -12.58  | 2.37       | 1.83       | 2.65       |
| 3171 | 6           | 20          | -15        | -2.77   | -17.11  | -6.38   | -6.19      | 11.10      | -20.80     |
| 3167 | 6           | 20          | -10        | -2.03   | -5.75   | -10.43  | -2.67      | 11.81      | -5.90      |
| 3163 | 6           | 20          | -5         | -1.57   | -1.10   | -12.07  | -0.91      | 10.42      | -1.40      |
| 3159 | 6           | 20          | 0          | -1.04   | 0.57    | -12.62  | -0.17      | 7.77       | 0.52       |
| 3175 | 6           | 20          | 5          | -0.54   | -0.56   | -12.15  | -0.50      | 4.52       | 0.42       |
| 3179 | 6           | 20          | 10         | -0.53   | 0.01    | -12.36  | -0.31      | 2.99       | 1.06       |
| 3183 | 6           | 20          | 15         | -0.56   | 0.53    | -12.55  | -0.10      | 2.23       | 1.42       |

\* Indicates model was close to heave stop

TABLE 8.101.1 - NON-DIMENSIONAL STABILITY DATA IN BODY AXES AT TRANSOM

10 deg Deadrise, L/R = 0.000, Cv = 1.5

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X'      | Y'      | Z'      | K'      | M'     | N'      |
|--------|-------------|-------------|------------|---------|---------|---------|---------|--------|---------|
| 2113   | -2          | -10         | 0          | -0.0692 | 0.0712  | -0.3787 | 0.0471  | 1.1711 | 0.2255  |
| 2117   | -2          | -10         | 5          | -0.0761 | 0.1108  | -0.3736 | 0.0596  | 1.1586 | 0.4026  |
| 2121   | -2          | -10         | 10         | -0.0959 | 0.1895  | -0.3579 | 0.0850  | 1.1456 | 0.7338  |
| 2123 * | -2          | -10         | 15         | -0.1086 | 0.2895  | -0.3399 | 0.1035  | 1.1303 | 1.1287  |
| 2060   | -2          | 0           | 0          | -0.0713 | -0.0007 | -0.3873 | 0.0078  | 1.2231 | 0.0001  |
| 2063   | -2          | 0           | 0          | -0.0713 | -0.0010 | -0.3873 | 0.0090  | 1.2231 | 0.0001  |
| 2066   | -2          | 0           | 5          | -0.0758 | 0.0326  | -0.3861 | 0.0118  | 1.2325 | 0.1477  |
| 2068   | -2          | 0           | 10         | -0.0867 | 0.0881  | -0.3868 | 0.0350  | 1.2521 | 0.3854  |
| 2071 * | -2          | 0           | 15         | -0.1062 | 0.1819  | -0.3861 | 0.0620  | 1.2835 | 0.7750  |
| 2075   | -2          | 10          | 0          | -0.0680 | -0.0738 | -0.3793 | -0.0427 | 1.1665 | -0.2310 |
| 2079   | -2          | 10          | 5          | -0.0689 | -0.0457 | -0.3853 | -0.0368 | 1.2142 | -0.1063 |
| 2082   | -2          | 10          | 10         | -0.0750 | -0.0031 | -0.3915 | -0.0325 | 1.2648 | 0.0696  |
| 2084   | -2          | 10          | 15         | -0.0920 | 0.0761  | -0.4049 | -0.0073 | 1.3507 | 0.3902  |
| 2091   | -2          | 20          | 0          | -0.0640 | -0.1379 | -0.3611 | -0.0776 | 1.0756 | -0.4086 |
| 2095   | -2          | 20          | 5          | -0.0677 | -0.1117 | -0.3683 | -0.0709 | 1.1571 | -0.3005 |
| 2099   | -2          | 20          | 10         | -0.0748 | -0.0709 | -0.3862 | -0.0532 | 1.2632 | -0.1514 |
| 2102   | -2          | 20          | 15         | -0.0741 | -0.0019 | -0.4080 | -0.0187 | 1.3854 | 0.0864  |
| 1830   | 0           | -10         | 0          | -0.0423 | 0.0645  | -0.3831 | 0.0526  | 1.0111 | 0.1619  |
| 1834   | 0           | -10         | 5          | -0.0473 | 0.0910  | -0.3774 | 0.0585  | 0.9837 | 0.2607  |
| 1840   | 0           | -10         | 10         | -0.0585 | 0.1441  | -0.3702 | 0.0636  | 0.9841 | 0.4573  |
| 1844   | 0           | -10         | 15         | -0.0735 | 0.2435  | -0.3516 | 0.0639  | 0.9798 | 0.8069  |
| 1761   | 0           | 0           | 0          | -0.0423 | -0.0007 | -0.3885 | 0.0027  | 1.0323 | -0.0023 |
| 1765   | 0           | 0           | 5          | -0.0444 | 0.0147  | -0.3885 | 0.0071  | 1.0356 | 0.0586  |
| 1769   | 0           | 0           | 10         | -0.0507 | 0.0420  | -0.3864 | 0.0108  | 1.0438 | 0.1617  |
| 1774   | 0           | 0           | 15         | -0.0660 | 0.1101  | -0.3885 | 0.0263  | 1.0908 | 0.4069  |
| 1780   | 0           | 10          | 0          | -0.0440 | -0.0661 | -0.3828 | -0.0495 | 1.0072 | -0.1653 |
| 1784   | 0           | 10          | 5          | -0.0451 | -0.0480 | -0.3860 | -0.0439 | 1.0408 | -0.1025 |
| 1788   | 0           | 10          | 10         | -0.0482 | -0.0232 | -0.3904 | -0.0329 | 1.0784 | -0.0202 |
| 1789   | 0           | 10          | 10         | -0.0482 | -0.0242 | -0.3902 | -0.0329 | 1.0736 | -0.0242 |
| 1793   | 0           | 10          | 15         | -0.0566 | 0.0173  | -0.3976 | -0.0119 | 1.1517 | 0.0984  |
| 1810   | 0           | 21          | 0          | -0.0373 | -0.1408 | -0.3621 | -0.0952 | 0.9100 | -0.3479 |
| 1815   | 0           | 21          | 5          | -0.0405 | -0.1164 | -0.3726 | -0.0895 | 0.9782 | -0.2699 |
| 1820   | 0           | 21          | 10         | -0.0423 | -0.0773 | -0.3876 | -0.0701 | 1.0569 | -0.1606 |
| 1824   | 0           | 21          | 15         | -0.0488 | -0.0333 | -0.4034 | -0.0484 | 1.1748 | -0.0602 |
| 1919   | 3           | -11         | 0          | -0.0186 | 0.0724  | -0.3832 | 0.0575  | 0.7562 | 0.1343  |
| 1923   | 3           | -11         | 5          | -0.0227 | 0.1015  | -0.3778 | 0.0699  | 0.7405 | 0.1997  |
| 1927   | 3           | -11         | 10         | -0.0275 | 0.1445  | -0.3697 | 0.0754  | 0.7404 | 0.3007  |
| 1931   | 3           | -11         | 15         | -0.0354 | 0.2318  | -0.3521 | 0.0825  | 0.7468 | 0.5239  |
| 1851   | 3           | 0           | 0          | -0.0162 | 0.0014  | -0.3899 | 0.0031  | 0.7550 | 0.0056  |
| 1855   | 3           | 0           | 0          | -0.0186 | 0.0014  | -0.3900 | 0.0013  | 0.7546 | 0.0055  |
| 1857   | 3           | 0           | 5          | -0.0203 | 0.0221  | -0.3901 | 0.0116  | 0.7638 | 0.0448  |
| 1861   | 3           | 0           | 10         | -0.0238 | 0.0514  | -0.3903 | 0.0241  | 0.7939 | 0.1015  |
| 1865   | 3           | 0           | 15         | -0.0284 | 0.0945  | -0.3905 | 0.0377  | 0.8508 | 0.1923  |

\* Indicates model was close to heave stop

TABLE 8.101.2 - NON-DIMENSIONAL STABILITY DATA IN BODY AXES AT TRANSOM

10 deg Deadrise, L/R = 0.000, Cv = 1.5

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X'      | Y'      | Z'      | K'      | M'     | N'      |
|------|-------------|-------------|------------|---------|---------|---------|---------|--------|---------|
| 1881 | 3           | 10          | 0          | -0.0202 | -0.0652 | -0.3836 | -0.0527 | 0.7488 | -0.1153 |
| 1885 | 3           | 10          | 5          | -0.0189 | -0.0403 | -0.3890 | -0.0434 | 0.7734 | -0.0670 |
| 1889 | 3           | 10          | 10         | -0.0197 | -0.0085 | -0.3946 | -0.0199 | 0.8066 | -0.0115 |
| 1895 | 3           | 10          | 15         | -0.0234 | 0.0237  | -0.4016 | 0.0008  | 0.8859 | 0.0305  |
| 1901 | 3           | 21          | 0          | -0.0230 | -0.1380 | -0.3651 | -0.0992 | 0.7158 | -0.2501 |
| 1905 | 3           | 21          | 5          | -0.0243 | -0.1006 | -0.3795 | -0.0869 | 0.7638 | -0.1802 |
| 1909 | 3           | 21          | 10         | -0.0248 | -0.0581 | -0.3958 | -0.0686 | 0.8142 | -0.1063 |
| 1913 | 3           | 21          | 15         | -0.0233 | -0.0238 | -0.4089 | -0.0407 | 0.8893 | -0.0636 |
| 2023 | 6           | -10         | 0          | -0.0146 | 0.0604  | -0.3876 | 0.0471  | 0.5936 | 0.0851  |
| 2027 | 6           | -10         | 5          | -0.0153 | 0.0952  | -0.3815 | 0.0681  | 0.5823 | 0.1295  |
| 2031 | 6           | -10         | 10         | -0.0171 | 0.1411  | -0.3736 | 0.0908  | 0.5831 | 0.1974  |
| 2035 | 6           | -10         | 15         | -0.0187 | 0.2135  | -0.3610 | 0.1219  | 0.5908 | 0.3115  |
| 1964 | 6           | 0           | 0          | -0.0092 | 0.0000  | -0.3916 | 0.0021  | 0.5969 | 0.0046  |
| 1969 | 6           | 0           | 5          | -0.0093 | 0.0323  | -0.3916 | 0.0287  | 0.6020 | 0.0388  |
| 1973 | 6           | 0           | 10         | -0.0117 | 0.0669  | -0.3919 | 0.0617  | 0.6206 | 0.0796  |
| 1977 | 6           | 0           | 15         | -0.0137 | 0.1090  | -0.3932 | 0.0815  | 0.6499 | 0.1304  |
| 1983 | 6           | 10          | 0          | -0.0143 | -0.0571 | -0.3881 | -0.0222 | 0.5985 | -0.0689 |
| 1987 | 6           | 10          | 5          | -0.0127 | -0.0217 | -0.3953 | 0.0007  | 0.6127 | -0.0258 |
| 1991 | 6           | 10          | 10         | -0.0101 | 0.0142  | -0.4003 | 0.0294  | 0.6465 | 0.0038  |
| 1996 | 6           | 10          | 15         | -0.0099 | 0.0387  | -0.4046 | 0.0340  | 0.6707 | 0.0274  |
| 2003 | 6           | 20          | 0          | -0.0149 | -0.1183 | -0.3744 | -0.0628 | 0.5792 | -0.1543 |
| 2008 | 6           | 20          | 5          | -0.0173 | -0.0737 | -0.3908 | -0.0325 | 0.6185 | -0.0949 |
| 2012 | 6           | 20          | 10         | -0.0158 | -0.0271 | -0.4076 | -0.0073 | 0.6634 | -0.0493 |
| 2016 | 6           | 20          | 15         | -0.0153 | -0.0075 | -0.4147 | 0.0031  | 0.6975 | -0.0338 |

\* Indicates model was close to heave stop

TABLE 8.103.1 - NON-DIMENSIONAL STABILITY DATA IN BODY AXES AT TRANSOM

10 deg Deadrise, L/R = 0.000, Cv = 3

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X'      | Y'      | Z'      | K'      | M'     | N'      |
|--------|-------------|-------------|------------|---------|---------|---------|---------|--------|---------|
| 2114   | -2          | -10         | 0          | -0.0610 | 0.0329  | -0.0906 | 0.0182  | 0.2628 | 0.1074  |
| 2118   | -2          | -10         | 5          | -0.0701 | 0.0917  | -0.0800 | 0.0365  | 0.2165 | 0.3537  |
| 2064   | -2          | 0           | 0          | -0.0587 | 0.0014  | -0.0951 | 0.0016  | 0.2691 | 0.0055  |
| 2067   | -2          | 0           | 5          | -0.0660 | 0.0554  | -0.0949 | 0.0233  | 0.2707 | 0.2288  |
| 2076   | -2          | 10          | 0          | -0.0570 | -0.0291 | -0.0917 | -0.0167 | 0.2659 | -0.0937 |
| 2080   | -2          | 10          | 5          | -0.0631 | 0.0111  | -0.0984 | -0.0061 | 0.3139 | 0.0758  |
| 2092   | -2          | 20          | 0          | -0.0506 | -0.0404 | -0.0866 | -0.0218 | 0.2646 | -0.1121 |
| 2096   | -2          | 20          | 5          | -0.0484 | -0.0050 | -0.0998 | -0.0050 | 0.3475 | 0.0265  |
| 2100   | -2          | 20          | 10         | -0.0540 | 0.0393  | -0.1157 | 0.0119  | 0.4588 | 0.1789  |
| 2103   | -2          | 20          | 15         | -0.0451 | 0.0210  | -0.1095 | 0.0256  | 0.5227 | 0.0718  |
| 1831   | 0           | -10         | 0          | -0.0315 | 0.0161  | -0.0957 | 0.0128  | 0.3005 | 0.0291  |
| 1835   | 0           | -10         | 5          | -0.0423 | 0.0490  | -0.0901 | 0.0216  | 0.2975 | 0.1336  |
| 1841   | 0           | -10         | 10         | -0.0576 | 0.1303  | -0.0753 | 0.0391  | 0.2783 | 0.3914  |
| 1845   | 0           | -10         | 15         | -0.0594 | 0.2224  | -0.0595 | 0.0522  | 0.2575 | 0.6571  |
| 1762   | 0           | 0           | 0          | -0.0300 | 0.0001  | -0.0971 | 0.0012  | 0.3103 | -0.0012 |
| 1766   | 0           | 0           | 5          | -0.0385 | 0.0214  | -0.0970 | 0.0108  | 0.3297 | 0.0450  |
| 1770 * | 0           | 0           | 10         | -0.0624 | 0.1005  | -0.0971 | 0.0337  | 0.3763 | 0.2726  |
| 1775 * | 0           | 0           | 15         | -0.0660 | 0.1672  | -0.0973 | 0.0474  | 0.4192 | 0.4657  |
| 1781   | 0           | 10          | 0          | -0.0308 | -0.0160 | -0.0958 | -0.0115 | 0.3008 | -0.0346 |
| 1785   | 0           | 10          | 5          | -0.0326 | 0.0021  | -0.0990 | 0.0004  | 0.3510 | 0.0059  |
| 1790   | 0           | 10          | 10         | -0.0335 | 0.0169  | -0.1017 | 0.0111  | 0.3911 | 0.0401  |
| 1794   | 0           | 10          | 15         | -0.0315 | 0.0288  | -0.1036 | 0.0234  | 0.4008 | 0.0692  |
| 1811   | 0           | 21          | 0          | -0.0303 | -0.0346 | -0.0909 | -0.0218 | 0.2548 | -0.0816 |
| 1816   | 0           | 21          | 5          | -0.0306 | -0.0095 | -0.1008 | -0.0114 | 0.3310 | -0.0252 |
| 1821   | 0           | 21          | 10         | -0.0235 | -0.0040 | -0.1025 | -0.0046 | 0.3512 | -0.0213 |
| 1825   | 0           | 21          | 15         | -0.0185 | -0.0051 | -0.1021 | -0.0099 | 0.2844 | -0.0272 |
| 1920   | 3           | -11         | 0          | -0.0145 | 0.0125  | -0.0973 | 0.0129  | 0.2210 | 0.0247  |
| 1924   | 3           | -11         | 5          | -0.0188 | 0.0383  | -0.0926 | 0.0239  | 0.2154 | 0.0702  |
| 1928   | 3           | -11         | 10         | -0.0278 | 0.0906  | -0.0825 | 0.0393  | 0.2220 | 0.1804  |
| 1933   | 3           | -11         | 15         | -0.0448 | 0.2410  | -0.0545 | 0.0785  | 0.2297 | 0.5832  |
| 1852   | 3           | 0           | 0          | -0.0106 | -0.0001 | -0.0978 | -0.0000 | 0.2215 | 0.0012  |
| 1858   | 3           | 0           | 5          | -0.0132 | 0.0105  | -0.0978 | 0.0084  | 0.2211 | 0.0165  |
| 1862   | 3           | 0           | 10         | -0.0157 | 0.0283  | -0.0982 | 0.0183  | 0.2309 | 0.0423  |
| 1866   | 3           | 0           | 15         | -0.0206 | 0.0621  | -0.0985 | 0.0336  | 0.2588 | 0.0941  |

\* Indicates model was close to heave stop

TABLE 8.103.2 - NON-DIMENSIONAL STABILITY DATA IN BODY AXES AT TRANSOM

10 deg Deadrise, L/R = 0.000, Cv = 3

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X'      | Y'      | Z'      | K'      | M'     | N'      |
|------|-------------|-------------|------------|---------|---------|---------|---------|--------|---------|
| 1882 | 3           | 10          | 0          | -0.0140 | -0.0119 | -0.0977 | -0.0126 | 0.2181 | -0.0201 |
| 1886 | 3           | 10          | 5          | -0.0112 | -0.0017 | -0.0992 | -0.0044 | 0.2161 | -0.0063 |
| 1890 | 3           | 10          | 10         | -0.0087 | 0.0033  | -0.1000 | 0.0024  | 0.1815 | 0.0025  |
| 1891 | 3           | 10          | 10         | -0.0087 | 0.0029  | -0.0999 | 0.0020  | 0.1810 | 0.0014  |
| 1896 | 3           | 10          | 15         | -0.0064 | 0.0069  | -0.0999 | 0.0058  | 0.1364 | 0.0053  |
| 1902 | 3           | 21          | 0          | -0.0183 | -0.0306 | -0.0936 | -0.0245 | 0.2123 | -0.0539 |
| 1906 | 3           | 21          | 5          | -0.0133 | -0.0073 | -0.1021 | -0.0137 | 0.2226 | -0.0200 |
| 1910 | 3           | 21          | 10         | -0.0078 | -0.0064 | -0.1022 | -0.0117 | 0.1765 | -0.0178 |
| 1914 | 3           | 21          | 15         | -0.0046 | -0.0072 | -0.1018 | -0.0140 | 0.1347 | -0.0142 |
| 2024 | 6           | -10         | 0          | -0.0068 | 0.0055  | -0.0989 | 0.0052  | 0.1345 | 0.0121  |
| 2028 | 6           | -10         | 5          | -0.0101 | 0.0190  | -0.0966 | 0.0157  | 0.1479 | 0.0243  |
| 2032 | 6           | -10         | 10         | -0.0126 | 0.0476  | -0.0924 | 0.0314  | 0.1577 | 0.0564  |
| 2036 | 6           | -10         | 15         | -0.0156 | 0.1054  | -0.0824 | 0.0573  | 0.1710 | 0.1335  |
| 1965 | 6           | 0           | 0          | -0.0037 | 0.0003  | -0.0982 | 0.0002  | 0.1169 | 0.0025  |
| 1970 | 6           | 0           | 5          | -0.0027 | 0.0036  | -0.0981 | 0.0051  | 0.1159 | 0.0060  |
| 1974 | 6           | 0           | 10         | -0.0040 | 0.0086  | -0.0981 | 0.0124  | 0.1202 | 0.0101  |
| 1978 | 6           | 0           | 15         | -0.0060 | 0.0186  | -0.0984 | 0.0207  | 0.1219 | 0.0167  |
| 1984 | 6           | 10          | 0          | -0.0065 | -0.0041 | -0.0990 | -0.0005 | 0.1287 | -0.0056 |
| 1988 | 6           | 10          | 5          | -0.0042 | -0.0012 | -0.0995 | 0.0039  | 0.1048 | -0.0021 |
| 1992 | 6           | 10          | 10         | -0.0026 | 0.0011  | -0.0998 | 0.0061  | 0.0852 | 0.0006  |
| 1997 | 6           | 10          | 15         | -0.0014 | 0.0023  | -0.0999 | 0.0062  | 0.0756 | 0.0015  |
| 2004 | 6           | 20          | 0          | -0.0085 | -0.0151 | -0.0994 | -0.0127 | 0.1500 | -0.0195 |
| 2009 | 6           | 20          | 5          | -0.0061 | 0.0024  | -0.1056 | -0.0037 | 0.1324 | -0.0026 |
| 2013 | 6           | 20          | 10         | -0.0030 | -0.0076 | -0.1018 | -0.0078 | 0.0990 | -0.0103 |
| 2017 | 6           | 20          | 15         | -0.0026 | -0.0086 | -0.1012 | -0.0085 | 0.0829 | -0.0088 |

\* Indicates model was close to heave stop

TABLE 8.104.1 - NON-DIMENSIONAL STABILITY DATA IN BODY AXES AT TRANSOM

10 deg Deadrise, L/R = 0.000, Cv = 4

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X'      | Y'      | Z'      | K'      | M'     | N'      |
|--------|-------------|-------------|------------|---------|---------|---------|---------|--------|---------|
| 2115   | -2          | -10         | 0          | -0.0631 | 0.0305  | -0.0480 | 0.0211  | 0.1218 | 0.1017  |
| 2077   | -2          | 10          | 0          | -0.0626 | -0.0264 | -0.0485 | -0.0154 | 0.1226 | -0.0867 |
| 2093 * | -2          | 20          | 0          | -0.0648 | -0.0474 | -0.0386 | -0.0264 | 0.1137 | -0.1801 |
| 2097 * | -2          | 20          | 5          | -0.0645 | 0.0026  | -0.0568 | -0.0026 | 0.2214 | 0.0314  |
| 2105   | -2          | 20          | 10         | -0.0535 | 0.0194  | -0.0631 | 0.0199  | 0.3681 | 0.0668  |
| 2107   | -2          | 20          | 10         | -0.0637 | 0.0746  | -0.0827 | 0.0357  | 0.3374 | 0.2929  |
| 2109   | -2          | 20          | 12         | -0.0324 | 0.0098  | -0.0605 | 0.0118  | 0.3133 | 0.0255  |
| 2104   | -2          | 20          | 15         | -0.0220 | 0.0043  | -0.0589 | 0.0059  | 0.2561 | 0.0026  |
| 1832   | 0           | -10         | 0          | -0.0327 | 0.0063  | -0.0543 | 0.0050  | 0.2149 | 0.0029  |
| 1836   | 0           | -10         | 5          | -0.0505 | 0.0489  | -0.0470 | 0.0189  | 0.2094 | 0.1527  |
| 1842   | 0           | -10         | 10         | -0.0543 | 0.1169  | -0.0349 | 0.0319  | 0.1869 | 0.3623  |
| 1846   | 0           | -10         | 15         | -0.0545 | 0.2130  | -0.0177 | 0.0472  | 0.1538 | 0.6326  |
| 1763   | 0           | 0           | 0          | -0.0309 | -0.0003 | -0.0546 | 0.0008  | 0.2291 | -0.0026 |
| 1767   | 0           | 0           | 5          | -0.0415 | 0.0157  | -0.0545 | 0.0089  | 0.2514 | 0.0346  |
| 1772 * | 0           | 0           | 10         | -0.0587 | 0.0823  | -0.0548 | 0.0271  | 0.2827 | 0.2377  |
| 1776 * | 0           | 0           | 15         | -0.0635 | 0.1583  | -0.0547 | 0.0476  | 0.3156 | 0.4428  |
| 1782   | 0           | 10          | 0          | -0.0322 | -0.0061 | -0.0544 | -0.0032 | 0.2193 | -0.0133 |
| 1786   | 0           | 10          | 5          | -0.0270 | 0.0029  | -0.0562 | 0.0037  | 0.2479 | 0.0055  |
| 1791   | 0           | 10          | 10         | -0.0209 | 0.0072  | -0.0568 | 0.0084  | 0.2243 | 0.0168  |
| 1795   | 0           | 10          | 15         | -0.0151 | 0.0114  | -0.0574 | 0.0101  | 0.1817 | 0.0232  |
| 1812   | 0           | 21          | 0          | -0.0315 | -0.0177 | -0.0519 | -0.0105 | 0.1798 | -0.0436 |
| 1818   | 0           | 21          | 5          | -0.0249 | -0.0040 | -0.0571 | -0.0038 | 0.2336 | -0.0199 |
| 1822   | 0           | 21          | 10         | -0.0173 | -0.0041 | -0.0570 | -0.0060 | 0.1823 | -0.0210 |
| 1826   | 0           | 21          | 15         | -0.0090 | -0.0087 | -0.0554 | -0.0131 | 0.1253 | -0.0207 |
| 1921   | 3           | -11         | 0          | -0.0108 | 0.0046  | -0.0554 | 0.0058  | 0.1276 | 0.0126  |
| 1925   | 3           | -11         | 5          | -0.0168 | 0.0232  | -0.0521 | 0.0151  | 0.1378 | 0.0424  |
| 1929   | 3           | -11         | 10         | -0.0256 | 0.0743  | -0.0427 | 0.0317  | 0.1497 | 0.1495  |
| 1934   | 3           | -11         | 15         | -0.0400 | 0.2257  | -0.0138 | 0.0724  | 0.1539 | 0.5512  |
| 1853   | 3           | 0           | 0          | -0.0086 | 0.0003  | -0.0550 | -0.0000 | 0.1137 | 0.0016  |
| 1859   | 3           | 0           | 5          | -0.0095 | 0.0041  | -0.0552 | 0.0046  | 0.1153 | 0.0080  |
| 1863   | 3           | 0           | 10         | -0.0108 | 0.0134  | -0.0554 | 0.0113  | 0.1159 | 0.0183  |
| 1867   | 3           | 0           | 15         | -0.0131 | 0.0306  | -0.0555 | 0.0211  | 0.1301 | 0.0386  |

\* Indicates model was close to heave stop

TABLE 8.104.2 - NON-DIMENSIONAL STABILITY DATA IN BODY AXES AT TRANSOM

10 deg Deadrise, L/R = 0.000, Cv = 4

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X'      | Y'      | Z'      | K'      | M'     | N'      |
|------|-------------|-------------|------------|---------|---------|---------|---------|--------|---------|
| 1883 | 3           | 10          | 0          | -0.0104 | -0.0037 | -0.0555 | -0.0062 | 0.1239 | -0.0091 |
| 1887 | 3           | 10          | 5          | -0.0072 | -0.0001 | -0.0557 | -0.0020 | 0.0887 | -0.0020 |
| 1893 | 3           | 10          | 10         | -0.0045 | 0.0015  | -0.0561 | -0.0011 | 0.0677 | 0.0005  |
| 1897 | 3           | 10          | 15         | -0.0034 | 0.0021  | -0.0562 | -0.0013 | 0.0573 | 0.0012  |
| 1903 | 3           | 21          | 0          | -0.0154 | -0.0141 | -0.0542 | -0.0134 | 0.1331 | -0.0244 |
| 1907 | 3           | 21          | 5          | -0.0079 | -0.0052 | -0.0572 | -0.0090 | 0.1058 | -0.0116 |
| 1911 | 3           | 21          | 10         | -0.0042 | -0.0057 | -0.0567 | -0.0102 | 0.0720 | -0.0079 |
| 1915 | 3           | 21          | 15         | -0.0031 | -0.0077 | -0.0557 | -0.0122 | 0.0536 | -0.0064 |
| 2025 | 6           | -10         | 0          | -0.0029 | 0.0054  | -0.0552 | 0.0054  | 0.0501 | 0.0083  |
| 2029 | 6           | -10         | 5          | -0.0058 | 0.0086  | -0.0548 | 0.0081  | 0.0636 | 0.0113  |
| 2033 | 6           | -10         | 10         | -0.0086 | 0.0246  | -0.0525 | 0.0186  | 0.0776 | 0.0249  |
| 2037 | 6           | -10         | 15         | -0.0115 | 0.0640  | -0.0459 | 0.0373  | 0.0940 | 0.0668  |
| 1966 | 6           | 0           | 0          | -0.0011 | 0.0009  | -0.0551 | 0.0006  | 0.0316 | 0.0021  |
| 1971 | 6           | 0           | 5          | -0.0012 | 0.0029  | -0.0551 | 0.0035  | 0.0334 | 0.0033  |
| 1975 | 6           | 0           | 10         | -0.0014 | 0.0051  | -0.0552 | 0.0068  | 0.0337 | 0.0047  |
| 1979 | 6           | 0           | 15         | -0.0020 | 0.0074  | -0.0552 | 0.0111  | 0.0351 | 0.0062  |
| 1985 | 6           | 10          | 0          | -0.0032 | -0.0040 | -0.0556 | -0.0030 | 0.0469 | -0.0028 |
| 1989 | 6           | 10          | 5          | -0.0019 | -0.0028 | -0.0555 | -0.0014 | 0.0396 | -0.0011 |
| 1994 | 6           | 10          | 10         | -0.0013 | -0.0018 | -0.0555 | -0.0023 | 0.0344 | 0.0002  |
| 1998 | 6           | 10          | 15         | -0.0008 | -0.0011 | -0.0557 | -0.0013 | 0.0321 | 0.0008  |
| 2005 | 6           | 20          | 0          | -0.0059 | -0.0056 | -0.0572 | -0.0068 | 0.0717 | -0.0075 |
| 2010 | 6           | 20          | 5          | -0.0033 | -0.0011 | -0.0583 | -0.0040 | 0.0556 | -0.0027 |
| 2014 | 6           | 20          | 10         | -0.0016 | -0.0073 | -0.0558 | -0.0099 | 0.0375 | -0.0036 |
| 2018 | 6           | 20          | 15         | -0.0010 | -0.0085 | -0.0554 | -0.0084 | 0.0336 | -0.0036 |

\* Indicates model was close to heave stop



TABLE 8.111.1 - NON-DIMENSIONAL STABILITY DATA IN BODY AXES AT TRANSOM

10 deg Deadrise, L/R = 0.117, Cv = 1.5

| RUN | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X'      | Y'      | Z'      | K'      | M'     | N'      |
|-----|-------------|-------------|------------|---------|---------|---------|---------|--------|---------|
| 754 | 0           | -10         | -15        | -0.0650 | -0.0019 | -0.3981 | 0.0460  | 1.1716 | -0.0873 |
| 750 | 0           | -10         | -10        | -0.0549 | 0.0256  | -0.3932 | 0.0419  | 1.1065 | -0.0005 |
| 746 | 0           | -10         | -5         | -0.0497 | 0.0504  | -0.3878 | 0.0481  | 1.0667 | 0.0880  |
| 733 | 0           | -10         | 0          | -0.0473 | 0.0706  | -0.3831 | 0.0534  | 1.0386 | 0.1649  |
| 737 | 0           | -10         | 5          | -0.0500 | 0.0948  | -0.3800 | 0.0541  | 1.0230 | 0.2528  |
| 741 | 0           | -10         | 10         | -0.0628 | 0.1456  | -0.3710 | 0.0329  | 1.0351 | 0.4421  |
| 665 | 0           | 0           | -10        | -0.0615 | -0.0423 | -0.3875 | -0.0027 | 1.0635 | -0.1882 |
| 661 | 0           | 0           | -5         | -0.0516 | -0.0168 | -0.3896 | 0.0012  | 1.0529 | -0.0787 |
| 649 | 0           | 0           | 0          | -0.0461 | 0.0045  | -0.3854 | 0.0032  | 1.0432 | 0.0020  |
| 652 | 0           | 0           | 5          | -0.0463 | 0.0184  | -0.3885 | 0.0054  | 1.0534 | 0.0573  |
| 657 | 0           | 0           | 10         | -0.0526 | 0.0390  | -0.3864 | 0.0004  | 1.0646 | 0.1372  |
| 690 | 0           | 10          | -10        | -0.0649 | -0.1418 | -0.3663 | -0.0499 | 0.9482 | -0.4794 |
| 686 | 0           | 10          | -5         | -0.0524 | -0.0888 | -0.3778 | -0.0589 | 0.9779 | -0.2752 |
| 669 | 0           | 10          | 0          | -0.0491 | -0.0634 | -0.3823 | -0.0525 | 1.0086 | -0.1775 |
| 673 | 0           | 10          | 5          | -0.0475 | -0.0451 | -0.3855 | -0.0504 | 1.0482 | -0.1145 |
| 677 | 0           | 10          | 10         | -0.0504 | -0.0233 | -0.3893 | -0.0419 | 1.0856 | -0.0344 |
| 682 | 0           | 10          | 15         | -0.0577 | 0.0120  | -0.3966 | -0.0301 | 1.1471 | 0.0767  |
| 729 | 0           | 20          | -10        | -0.0629 | -0.2470 | -0.3258 | -0.1056 | 0.7863 | -0.7588 |
| 725 | 0           | 20          | -5         | -0.0493 | -0.1628 | -0.3553 | -0.0968 | 0.8753 | -0.4733 |
| 708 | 0           | 20          | 0          | -0.0436 | -0.1327 | -0.3663 | -0.0968 | 0.9292 | -0.3615 |
| 712 | 0           | 20          | 5          | -0.0447 | -0.1078 | -0.3753 | -0.0922 | 0.9875 | -0.2754 |
| 716 | 0           | 20          | 10         | -0.0443 | -0.0715 | -0.3885 | -0.0784 | 1.0596 | -0.1691 |
| 721 | 0           | 20          | 15         | -0.0467 | -0.0312 | -0.4032 | -0.0583 | 1.1200 | -0.0591 |
| 884 | 3           | -10         | -15        | -0.0246 | -0.0184 | -0.4007 | -0.0035 | 0.9193 | -0.0408 |
| 888 | 3           | -10         | -10        | -0.0199 | 0.0180  | -0.3940 | 0.0214  | 0.8346 | 0.0207  |
| 892 | 3           | -10         | -5         | -0.0210 | 0.0490  | -0.3886 | 0.0391  | 0.7949 | 0.0749  |
| 896 | 3           | -10         | 0          | -0.0218 | 0.0749  | -0.3841 | 0.0516  | 0.7752 | 0.1290  |
| 900 | 3           | -10         | 5          | -0.0236 | 0.1053  | -0.3788 | 0.0648  | 0.7665 | 0.1947  |
| 904 | 3           | -10         | 10         | -0.0296 | 0.1550  | -0.3704 | 0.0693  | 0.7815 | 0.3020  |
| 908 | 3           | -10         | 15         | -0.0405 | 0.2525  | -0.3538 | 0.0726  | 0.8155 | 0.5334  |
| 803 | 3           | 0           | -15        | -0.0290 | -0.0768 | -0.3906 | -0.0426 | 0.8621 | -0.1790 |
| 799 | 3           | 0           | -10        | -0.0257 | -0.0415 | -0.3915 | -0.0262 | 0.8060 | -0.0970 |
| 795 | 3           | 0           | -5         | -0.0215 | -0.0126 | -0.3808 | -0.0129 | 0.7618 | -0.0350 |
| 760 | 3           | 0           | 0          | -0.0180 | 0.0087  | -0.3911 | 0.0003  | 0.7739 | 0.0081  |
| 764 | 3           | 0           | 5          | -0.0213 | 0.0352  | -0.3923 | 0.0159  | 0.7856 | 0.0590  |
| 768 | 3           | 0           | 10         | -0.0259 | 0.0660  | -0.3915 | 0.0298  | 0.8255 | 0.1141  |
| 809 | 3           | 0           | 10         | -0.0254 | 0.0687  | -0.3904 | 0.0286  | 0.8221 | 0.1235  |
| 772 | 3           | 0           | 15         | -0.0323 | 0.1258  | -0.3918 | 0.0413  | 0.8966 | 0.2344  |
| 789 | 3           | 0           | 15         | -0.0311 | 0.1240  | -0.3928 | 0.0420  | 0.8951 | 0.2333  |

\* Indicates model was close to heave stop

TABLE 8.111.2 - NON-DIMENSIONAL STABILITY DATA IN BODY AXES AT TRANSOM

10 deg Deadrise, L/R = 0.117, Cv = 1.5

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X'      | Y'      | Z'      | K'      | M'     | N'      |
|------|-------------|-------------|------------|---------|---------|---------|---------|--------|---------|
| 837  | 3           | 10          | -15        | -0.0347 | -0.1898 | -0.3634 | -0.0756 | 0.7443 | -0.4427 |
| 833  | 3           | 10          | -10        | -0.0263 | -0.1131 | -0.3765 | -0.0688 | 0.7376 | -0.2424 |
| 840  | 3           | 10          | -10        | -0.0341 | -0.1298 | -0.3740 | -0.0900 | 0.7337 | -0.2852 |
| 830  | 3           | 10          | -5         | -0.0230 | -0.0788 | -0.3824 | -0.0620 | 0.7397 | -0.1594 |
| 812  | 3           | 10          | 0          | -0.0216 | -0.0531 | -0.3847 | -0.0504 | 0.7546 | -0.1036 |
| 813  | 3           | 10          | 0          | -0.0207 | -0.0534 | -0.3867 | -0.0494 | 0.7555 | -0.1030 |
| 817  | 3           | 10          | 5          | -0.0191 | -0.0307 | -0.3907 | -0.0397 | 0.7733 | -0.0593 |
| 821  | 3           | 10          | 10         | -0.0200 | 0.0012  | -0.3963 | -0.0208 | 0.8156 | -0.0089 |
| 825  | 3           | 10          | 15         | -0.0234 | 0.0400  | -0.4033 | 0.0046  | 0.8885 | 0.0502  |
| 876  | 3           | 20          | -15        | -0.0385 | -0.3089 | -0.3049 | -0.1113 | 0.5987 | -0.7279 |
| 871  | 3           | 20          | -10        | -0.0294 | -0.2042 | -0.3425 | -0.1091 | 0.6582 | -0.4493 |
| 854  | 3           | 20          | -5         | -0.0264 | -0.1546 | -0.3592 | -0.1053 | 0.6898 | -0.3211 |
| 842  | 3           | 20          | 0          | -0.0261 | -0.1217 | -0.3712 | -0.0960 | 0.7269 | -0.2409 |
| 846  | 3           | 20          | 5          | -0.0255 | -0.0874 | -0.3836 | -0.0885 | 0.7641 | -0.1720 |
| 850  | 3           | 20          | 10         | -0.0264 | -0.0439 | -0.3995 | -0.0673 | 0.8214 | -0.0964 |
| 879  | 3           | 20          | 15         | -0.0252 | -0.0086 | -0.4134 | -0.0387 | 0.8836 | -0.0409 |
| 1054 | 6           | -10         | -15        | -0.0102 | -0.0417 | -0.4073 | -0.0195 | 0.6964 | -0.0437 |
| 1050 | 6           | -10         | -10        | -0.0113 | -0.0047 | -0.3998 | 0.0059  | 0.6359 | -0.0086 |
| 1045 | 6           | -10         | -5         | -0.0140 | 0.0387  | -0.3924 | 0.0316  | 0.6050 | 0.0404  |
| 1012 | 6           | -10         | 0          | -0.0138 | 0.0730  | -0.3885 | 0.0444  | 0.6106 | 0.0887  |
| 1034 | 6           | -10         | 0          | -0.0118 | 0.0722  | -0.3799 | 0.0429  | 0.5909 | 0.0865  |
| 1039 | 6           | -10         | 5          | -0.0162 | 0.1093  | -0.3802 | 0.0559  | 0.5922 | 0.1344  |
| 1016 | 6           | -10         | 10         | -0.0193 | 0.1694  | -0.3721 | 0.0786  | 0.6051 | 0.2289  |
| 1020 | 6           | -10         | 15         | -0.0248 | 0.2690  | -0.3551 | 0.1030  | 0.6261 | 0.3892  |
| 1038 | 6           | -10         | 15         | -0.0216 | 0.2668  | -0.3530 | 0.1086  | 0.6041 | 0.3856  |
| 938  | 6           | 0           | -15        | -0.0135 | -0.0975 | -0.3931 | -0.0593 | 0.6522 | -0.1318 |
| 934  | 6           | 0           | -10        | -0.0116 | -0.0608 | -0.3929 | -0.0407 | 0.6283 | -0.0822 |
| 930  | 6           | 0           | -5         | -0.0120 | -0.0260 | -0.3930 | -0.0260 | 0.6091 | -0.0487 |
| 913  | 6           | 0           | 0          | -0.0114 | 0.0104  | -0.3929 | -0.0001 | 0.5996 | -0.0003 |
| 918  | 6           | 0           | 5          | -0.0119 | 0.0450  | -0.3930 | 0.0163  | 0.6144 | 0.0432  |
| 922  | 6           | 0           | 10         | -0.0134 | 0.0799  | -0.3931 | 0.0338  | 0.6426 | 0.0842  |
| 926  | 6           | 0           | 15         | -0.0165 | 0.1394  | -0.3935 | 0.0564  | 0.6778 | 0.1635  |
| 979  | 6           | 10          | -15        | -0.0162 | -0.1840 | -0.3670 | -0.0959 | 0.5781 | -0.2770 |
| 975  | 6           | 10          | -10        | -0.0150 | -0.1222 | -0.3778 | -0.0783 | 0.5707 | -0.1789 |
| 971  | 6           | 10          | -5         | -0.0113 | -0.0768 | -0.3854 | -0.0543 | 0.5758 | -0.1035 |
| 955  | 6           | 10          | 0          | -0.0121 | -0.0415 | -0.3928 | -0.0368 | 0.5846 | -0.0554 |
| 959  | 6           | 10          | 5          | -0.0125 | -0.0072 | -0.3978 | -0.0238 | 0.6063 | -0.0184 |
| 963  | 6           | 10          | 10         | -0.0104 | 0.0238  | -0.4031 | -0.0047 | 0.6489 | 0.0055  |
| 967  | 6           | 10          | 15         | -0.0094 | 0.0544  | -0.4084 | 0.0136  | 0.6719 | 0.0410  |
| 1003 | 6           | 20          | -15        | -0.0203 | -0.2884 | -0.3141 | -0.1325 | 0.4860 | -0.4735 |
| 999  | 6           | 20          | -10        | -0.0166 | -0.2026 | -0.3450 | -0.1162 | 0.5236 | -0.3138 |
| 995  | 6           | 20          | -5         | -0.0137 | -0.1484 | -0.3644 | -0.1023 | 0.5507 | -0.2215 |
| 983  | 6           | 20          | 0          | -0.0124 | -0.1049 | -0.3801 | -0.0843 | 0.5777 | -0.1512 |
| 987  | 6           | 20          | 5          | -0.0132 | -0.0555 | -0.3981 | -0.0630 | 0.6152 | -0.0839 |
| 991  | 6           | 20          | 10         | -0.0131 | -0.0160 | -0.4125 | -0.0427 | 0.6582 | -0.0437 |
| 1007 | 6           | 20          | 15         | -0.0150 | -0.0003 | -0.4207 | -0.0297 | 0.6908 | -0.0317 |

\* Indicates model was close to heave stop

TABLE 8.113.1 - NON-DIMENSIONAL STABILITY DATA IN BODY AXES AT TRANSOM

10 deg Deadrise, L/R = 0.117, Cv = 3

| RUN   | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X'      | Y'      | Z'      | K'      | M'     | N'      |
|-------|-------------|-------------|------------|---------|---------|---------|---------|--------|---------|
| 755   | 0           | -10         | -15        | -0.0381 | -0.0243 | -0.1039 | -0.0138 | 0.4484 | -0.0774 |
| 758   | 0           | -10         | -15        | -0.0373 | -0.0248 | -0.1030 | -0.0160 | 0.4431 | -0.0802 |
| 751   | 0           | -10         | -10        | -0.0408 | -0.0182 | -0.1026 | -0.0079 | 0.4292 | -0.0624 |
| 747   | 0           | -10         | -5         | -0.0366 | -0.0021 | -0.0999 | 0.0025  | 0.3695 | -0.0210 |
| 734   | 0           | -10         | 0          | -0.0349 | 0.0190  | -0.0957 | 0.0130  | 0.3239 | 0.0259  |
| 738   | 0           | -10         | 5          | -0.0465 | 0.0548  | -0.0898 | 0.0196  | 0.3354 | 0.1221  |
| 742   | 0           | -10         | 10         | -0.0617 | 0.1549  | -0.0721 | 0.0381  | 0.3306 | 0.3943  |
| 686 * | 0           | 0           | -10        | -0.0633 | -0.0873 | -0.0970 | -0.0229 | 0.3557 | -0.2851 |
| 682   | 0           | 0           | -5         | -0.0406 | -0.0188 | -0.0971 | -0.0077 | 0.3315 | -0.0559 |
| 650   | 0           | 0           | 0          | -0.0324 | 0.0031  | -0.0974 | 0.0019  | 0.3196 | -0.0022 |
| 654   | 0           | 0           | 5          | -0.0414 | 0.0270  | -0.0971 | 0.0092  | 0.3529 | 0.0509  |
| 658 * | 0           | 0           | 10         | -0.0600 | 0.1002  | -0.0971 | 0.0276  | 0.3995 | 0.2213  |
| 691 * | 0           | 10          | -10        | -0.0639 | -0.1312 | -0.0755 | -0.0266 | 0.2396 | -0.4449 |
| 687   | 0           | 10          | -5         | -0.0416 | -0.0435 | -0.0908 | -0.0187 | 0.2731 | -0.1363 |
| 670   | 0           | 10          | 0          | -0.0323 | -0.0166 | -0.0958 | -0.0128 | 0.2902 | -0.0427 |
| 674   | 0           | 10          | 5          | -0.0335 | 0.0013  | -0.0989 | -0.0036 | 0.3440 | -0.0029 |
| 678   | 0           | 10          | 10         | -0.0373 | 0.0253  | -0.1031 | 0.0102  | 0.3929 | 0.0470  |
| 683   | 0           | 10          | 15         | -0.0328 | 0.0326  | -0.1042 | 0.0224  | 0.3936 | 0.0679  |
| 730 * | 0           | 20          | -10        | -0.0634 | -0.1785 | -0.0388 | -0.0473 | 0.0722 | -0.6130 |
| 726   | 0           | 20          | -5         | -0.0400 | -0.0706 | -0.0781 | -0.0288 | 0.1873 | -0.2319 |
| 709   | 0           | 20          | 0          | -0.0306 | -0.0351 | -0.0910 | -0.0242 | 0.2444 | -0.0975 |
| 713   | 0           | 20          | 5          | -0.0318 | -0.0081 | -0.1008 | -0.0146 | 0.3136 | -0.0282 |
| 717   | 0           | 20          | 10         | -0.0253 | -0.0020 | -0.1031 | -0.0054 | 0.3278 | -0.0194 |
| 718   | 0           | 20          | 10         | -0.0250 | -0.0028 | -0.1026 | -0.0066 | 0.3242 | -0.0217 |
| 722   | 0           | 20          | 15         | -0.0188 | -0.0011 | -0.1035 | -0.0092 | 0.2765 | -0.0182 |
| 885   | 3           | -10         | -15        | -0.0074 | -0.0074 | -0.1009 | -0.0084 | 0.1754 | -0.0088 |
| 889   | 3           | -10         | -10        | -0.0093 | -0.0019 | -0.0996 | -0.0028 | 0.2154 | 0.0002  |
| 893   | 3           | -10         | -5         | -0.0120 | 0.0035  | -0.0988 | 0.0048  | 0.2470 | 0.0104  |
| 897   | 3           | -10         | 0          | -0.0156 | 0.0190  | -0.0967 | 0.0141  | 0.2379 | 0.0294  |
| 901   | 3           | -10         | 5          | -0.0189 | 0.0480  | -0.0916 | 0.0258  | 0.2368 | 0.0800  |
| 905   | 3           | -10         | 10         | -0.0288 | 0.1158  | -0.0800 | 0.0458  | 0.2564 | 0.2078  |
| 909 * | 3           | -10         | 15         | -0.0493 | 0.2649  | -0.0547 | 0.0721  | 0.3017 | 0.5750  |
| 804   | 3           | 0           | -15        | -0.0179 | -0.0432 | -0.0981 | -0.0294 | 0.2524 | -0.0724 |
| 800   | 3           | 0           | -10        | -0.0157 | -0.0204 | -0.0980 | -0.0176 | 0.2403 | -0.0356 |
| 796   | 3           | 0           | -5         | -0.0133 | -0.0059 | -0.0980 | -0.0074 | 0.2351 | -0.0106 |
| 761   | 3           | 0           | 0          | -0.0121 | 0.0036  | -0.0982 | 0.0025  | 0.2283 | 0.0038  |
| 806   | 3           | 0           | 0          | -0.0120 | 0.0033  | -0.0979 | 0.0011  | 0.2350 | 0.0031  |
| 765   | 3           | 0           | 5          | -0.0144 | 0.0193  | -0.0983 | 0.0130  | 0.2325 | 0.0264  |
| 807   | 3           | 0           | 5          | -0.0146 | 0.0178  | -0.0980 | 0.0102  | 0.2381 | 0.0238  |
| 769   | 3           | 0           | 10         | -0.0173 | 0.0437  | -0.0982 | 0.0247  | 0.2477 | 0.0613  |
| 808   | 3           | 0           | 10         | -0.0173 | 0.0425  | -0.0982 | 0.0222  | 0.2524 | 0.0594  |
| 773   | 3           | 0           | 15         | -0.0244 | 0.0969  | -0.0987 | 0.0448  | 0.2966 | 0.1432  |
| 788   | 3           | 0           | 15         | -0.0221 | 0.0893  | -0.0992 | 0.0412  | 0.2898 | 0.1285  |

\* Indicates model was close to heave stop

TABLE 8.113.2 - NON-DIMENSIONAL STABILITY DATA IN BODY AXES AT TRANSOM

10 deg Deadrise, L/R = 0.117, Cv = 3

| RUN   | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X'      | Y'      | Z'      | K'      | M'      | N'      |
|-------|-------------|-------------|------------|---------|---------|---------|---------|---------|---------|
| 838   | 3           | 10          | -15        | -0.0375 | -0.1704 | -0.0706 | -0.0585 | 0.2193  | -0.4086 |
| 834   | 3           | 10          | -10        | -0.0223 | -0.0558 | -0.0901 | -0.0291 | 0.2174  | -0.1156 |
| 831   | 3           | 10          | -5         | -0.0163 | -0.0244 | -0.0953 | -0.0195 | 0.2117  | -0.0457 |
| 814   | 3           | 10          | 0          | -0.0131 | -0.0050 | -0.0986 | -0.0089 | 0.2191  | -0.0140 |
| 818   | 3           | 10          | 5          | -0.0108 | 0.0009  | -0.0996 | -0.0016 | 0.2087  | -0.0026 |
| 822   | 3           | 10          | 10         | -0.0079 | 0.0059  | -0.1002 | 0.0048  | 0.1677  | 0.0047  |
| 826   | 3           | 10          | 15         | -0.0050 | 0.0084  | -0.1005 | 0.0068  | 0.1253  | 0.0057  |
| 877 * | 3           | 20          | -15        | -0.0480 | -0.2816 | -0.0040 | -0.0742 | -0.0067 | -0.7921 |
| 872   | 3           | 20          | -10        | -0.0280 | -0.1064 | -0.0669 | -0.0411 | 0.1504  | -0.2515 |
| 855   | 3           | 20          | -5         | -0.0207 | -0.0485 | -0.0869 | -0.0299 | 0.1873  | -0.0985 |
| 868   | 3           | 20          | -5         | -0.0200 | -0.0468 | -0.0880 | -0.0300 | 0.1888  | -0.0937 |
| 843   | 3           | 20          | 0          | -0.0167 | -0.0205 | -0.0970 | -0.0213 | 0.2050  | -0.0417 |
| 847   | 3           | 20          | 5          | -0.0104 | -0.0040 | -0.1025 | -0.0113 | 0.2000  | -0.0141 |
| 851   | 3           | 20          | 10         | -0.0071 | -0.0026 | -0.1030 | -0.0107 | 0.1549  | -0.0104 |
| 880   | 3           | 20          | 15         | -0.0040 | -0.0065 | -0.1018 | -0.0160 | 0.1189  | -0.0132 |
| 1055  | 6           | -10         | -15        | -0.0021 | -0.0062 | -0.1008 | -0.0075 | 0.0783  | -0.0080 |
| 1051  | 6           | -10         | -10        | -0.0038 | -0.0039 | -0.1003 | -0.0045 | 0.1004  | -0.0050 |
| 1047  | 6           | -10         | -5         | -0.0063 | -0.0009 | -0.1004 | -0.0022 | 0.1324  | -0.0018 |
| 1013  | 6           | -10         | 0          | -0.0074 | 0.0081  | -0.0995 | 0.0080  | 0.1546  | 0.0099  |
| 1057  | 6           | -10         | 0          | -0.0080 | 0.0072  | -0.0997 | 0.0067  | 0.1537  | 0.0078  |
| 1041  | 6           | -10         | 5          | -0.0107 | 0.0314  | -0.0957 | 0.0174  | 0.1587  | 0.0309  |
| 1017  | 6           | -10         | 10         | -0.0148 | 0.0759  | -0.0883 | 0.0375  | 0.1727  | 0.0880  |
| 1021  | 6           | -10         | 15         | -0.0213 | 0.1740  | -0.0717 | 0.0716  | 0.1994  | 0.2362  |
| 1037  | 6           | -10         | 15         | -0.0182 | 0.1663  | -0.0729 | 0.0689  | 0.1954  | 0.2240  |
| 939   | 6           | 0           | -15        | -0.0059 | -0.0158 | -0.0985 | -0.0183 | 0.1275  | -0.0174 |
| 935   | 6           | 0           | -10        | -0.0037 | -0.0064 | -0.0983 | -0.0102 | 0.1269  | -0.0090 |
| 931   | 6           | 0           | -5         | -0.0037 | -0.0031 | -0.0983 | -0.0054 | 0.1249  | -0.0056 |
| 914   | 6           | 0           | 0          | -0.0031 | 0.0005  | -0.0981 | -0.0001 | 0.1212  | -0.0015 |
| 919   | 6           | 0           | 5          | -0.0039 | 0.0046  | -0.0986 | 0.0059  | 0.1245  | 0.0050  |
| 923   | 6           | 0           | 10         | -0.0056 | 0.0142  | -0.0986 | 0.0128  | 0.1243  | 0.0115  |
| 927   | 6           | 0           | 15         | -0.0076 | 0.0296  | -0.0989 | 0.0219  | 0.1316  | 0.0228  |
| 980   | 6           | 10          | -15        | -0.0129 | -0.0718 | -0.0883 | -0.0417 | 0.1620  | -0.0918 |
| 976   | 6           | 10          | -10        | -0.0109 | -0.0311 | -0.0954 | -0.0243 | 0.1525  | -0.0390 |
| 972   | 6           | 10          | -5         | -0.0080 | -0.0087 | -0.0990 | -0.0129 | 0.1446  | -0.0147 |
| 956   | 6           | 10          | 0          | -0.0050 | -0.0040 | -0.1001 | -0.0072 | 0.1193  | -0.0088 |
| 960   | 6           | 10          | 5          | -0.0034 | -0.0006 | -0.1000 | -0.0037 | 0.0932  | -0.0051 |
| 964   | 6           | 10          | 10         | -0.0019 | 0.0019  | -0.1000 | -0.0010 | 0.0740  | -0.0018 |
| 968   | 6           | 10          | 15         | -0.0012 | 0.0030  | -0.1004 | -0.0008 | 0.0648  | -0.0009 |
| 1004  | 6           | 20          | -15        | -0.0180 | -0.1521 | -0.0510 | -0.0587 | 0.1151  | -0.2494 |
| 1000  | 6           | 20          | -10        | -0.0146 | -0.0732 | -0.0792 | -0.0409 | 0.1424  | -0.1073 |
| 996   | 6           | 20          | -5         | -0.0113 | -0.0302 | -0.0946 | -0.0243 | 0.1511  | -0.0431 |
| 984   | 6           | 20          | 0          | -0.0072 | -0.0048 | -0.1033 | -0.0139 | 0.1424  | -0.0109 |
| 988   | 6           | 20          | 5          | -0.0029 | -0.0053 | -0.1028 | -0.0120 | 0.1071  | -0.0097 |
| 992   | 6           | 20          | 10         | -0.0015 | -0.0071 | -0.1019 | -0.0144 | 0.0855  | -0.0100 |
| 1008  | 6           | 20          | 15         | -0.0007 | -0.0094 | -0.1016 | -0.0178 | 0.0702  | -0.0102 |

\* Indicates model was close to heave stop

TABLE 8.114.1 - NON-DIMENSIONAL STABILITY DATA IN BODY AXES AT TRANSOM

10 deg Deadrise, L/R = 0.117, Cv = 4

| RUN   | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X'      | Y'      | Z'      | K'      | M'      | N'      |
|-------|-------------|-------------|------------|---------|---------|---------|---------|---------|---------|
| 756   | 0           | -10         | -15        | -0.0183 | -0.0113 | -0.0576 | -0.0087 | 0.2176  | -0.0290 |
| 757   | 0           | -10         | -15        | -0.0181 | -0.0112 | -0.0573 | -0.0092 | 0.2156  | -0.0290 |
| 752   | 0           | -10         | -10        | -0.0254 | -0.0079 | -0.0571 | -0.0053 | 0.2704  | -0.0263 |
| 748   | 0           | -10         | -5         | -0.0335 | -0.0059 | -0.0567 | -0.0039 | 0.2855  | -0.0269 |
| 735   | 0           | -10         | 0          | -0.0352 | 0.0067  | -0.0545 | 0.0043  | 0.2358  | -0.0030 |
| 739   | 0           | -10         | 5          | -0.0536 | 0.0585  | -0.0453 | 0.0197  | 0.2342  | 0.1299  |
| 743   | 0           | -10         | 10         | -0.0569 | 0.1361  | -0.0316 | 0.0300  | 0.2293  | 0.3537  |
| 667 * | 0           | 0           | -10        | -0.0595 | -0.0797 | -0.0545 | -0.0291 | 0.2640  | -0.2750 |
| 663   | 0           | 0           | -5         | -0.0451 | -0.0151 | -0.0545 | -0.0067 | 0.2552  | -0.0525 |
| 651   | 0           | 0           | 0          | -0.0327 | 0.0010  | -0.0544 | 0.0014  | 0.2334  | -0.0068 |
| 655   | 0           | 0           | 5          | -0.0354 | 0.0200  | -0.0544 | 0.0074  | 0.2535  | 0.0357  |
| 659 * | 0           | 0           | 10         | -0.0564 | 0.0833  | -0.0545 | 0.0219  | 0.3002  | 0.1907  |
| 692 * | 0           | 10          | -10        | -0.0618 | -0.1197 | -0.0343 | -0.0238 | 0.1394  | -0.4292 |
| 688 * | 0           | 10          | -5         | -0.0549 | -0.0502 | -0.0465 | -0.0173 | 0.1857  | -0.1893 |
| 671   | 0           | 10          | 0          | -0.0333 | -0.0086 | -0.0539 | -0.0089 | 0.2029  | -0.0214 |
| 675   | 0           | 10          | 5          | -0.0300 | 0.0037  | -0.0560 | 0.0013  | 0.2444  | 0.0012  |
| 679   | 0           | 10          | 10         | -0.0220 | 0.0074  | -0.0566 | 0.0084  | 0.2178  | 0.0135  |
| 680   | 0           | 10          | 10         | -0.0215 | 0.0070  | -0.0566 | 0.0083  | 0.2162  | 0.0126  |
| 684   | 0           | 10          | 15         | -0.0168 | 0.0131  | -0.0575 | 0.0124  | 0.1818  | 0.0245  |
| 731 * | 0           | 20          | -10        | -0.0606 | -0.1598 | -0.0002 | -0.0357 | -0.0033 | -0.5792 |
| 727 * | 0           | 20          | -5         | -0.0547 | -0.0743 | -0.0313 | -0.0255 | 0.0920  | -0.2945 |
| 710   | 0           | 20          | 0          | -0.0315 | -0.0208 | -0.0507 | -0.0136 | 0.1599  | -0.0684 |
| 714   | 0           | 20          | 5          | -0.0257 | -0.0035 | -0.0570 | -0.0057 | 0.2059  | -0.0210 |
| 719   | 0           | 20          | 10         | -0.0167 | -0.0035 | -0.0571 | -0.0076 | 0.1663  | -0.0193 |
| 723   | 0           | 20          | 15         | -0.0089 | -0.0087 | -0.0552 | -0.0143 | 0.1166  | -0.0197 |
| 886   | 3           | -10         | -15        | -0.0040 | -0.0032 | -0.0562 | -0.0031 | 0.0710  | -0.0032 |
| 890   | 3           | -10         | -10        | -0.0053 | -0.0010 | -0.0558 | -0.0028 | 0.0871  | 0.0006  |
| 894   | 3           | -10         | -5         | -0.0092 | 0.0012  | -0.0556 | 0.0014  | 0.1244  | 0.0043  |
| 898   | 3           | -10         | 0          | -0.0115 | 0.0092  | -0.0544 | 0.0083  | 0.1445  | 0.0155  |
| 902   | 3           | -10         | 5          | -0.0171 | 0.0352  | -0.0501 | 0.0190  | 0.1543  | 0.0550  |
| 906   | 3           | -10         | 10         | -0.0287 | 0.1059  | -0.0382 | 0.0408  | 0.1835  | 0.1921  |
| 910 * | 3           | -10         | 15         | -0.0479 | 0.2537  | -0.0132 | 0.0772  | 0.2238  | 0.5638  |
| 805   | 3           | 0           | -15        | -0.0126 | -0.0226 | -0.0552 | -0.0201 | 0.1263  | -0.0328 |
| 801   | 3           | 0           | -10        | -0.0112 | -0.0096 | -0.0551 | -0.0114 | 0.1237  | -0.0167 |
| 797   | 3           | 0           | -5         | -0.0092 | -0.0028 | -0.0550 | -0.0044 | 0.1247  | -0.0056 |
| 762   | 3           | 0           | 0          | -0.0092 | 0.0018  | -0.0549 | 0.0020  | 0.1244  | 0.0032  |
| 793   | 3           | 0           | 0          | -0.0091 | 0.0008  | -0.0550 | 0.0002  | 0.1287  | 0.0014  |
| 766   | 3           | 0           | 5          | -0.0111 | 0.0098  | -0.0550 | 0.0086  | 0.1216  | 0.0132  |
| 792   | 3           | 0           | 5          | -0.0105 | 0.0084  | -0.0551 | 0.0064  | 0.1241  | 0.0111  |
| 770   | 3           | 0           | 10         | -0.0128 | 0.0240  | -0.0553 | 0.0173  | 0.1292  | 0.0302  |
| 791   | 3           | 0           | 10         | -0.0123 | 0.0221  | -0.0553 | 0.0143  | 0.1314  | 0.0267  |
| 774   | 3           | 0           | 15         | -0.0177 | 0.0599  | -0.0554 | 0.0324  | 0.1645  | 0.0778  |
| 787   | 3           | 0           | 15         | -0.0156 | 0.0536  | -0.0557 | 0.0287  | 0.1568  | 0.0657  |

\* Indicates model was close to heave stop

TABLE 8.114.2 - NON-DIMENSIONAL STABILITY DATA IN BODY AXES AT TRANSOM

10 deg Deadrise, L/R = 0.117, Cv = 4

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X'      | Y'      | Z'      | K'      | M'     | N'      |
|------|-------------|-------------|------------|---------|---------|---------|---------|--------|---------|
| 839  | 3           | 10          | -15        | -0.0463 | -0.2056 | -0.0216 | -0.0840 | 0.1442 | -0.5526 |
| 835  | 3           | 10          | -10        | -0.0204 | -0.0398 | -0.0494 | -0.0221 | 0.1398 | -0.0822 |
| 829  | 3           | 10          | -5         | -0.0146 | -0.0112 | -0.0541 | -0.0120 | 0.1314 | -0.0240 |
| 815  | 3           | 10          | 0          | -0.0094 | -0.0017 | -0.0555 | -0.0041 | 0.1102 | -0.0060 |
| 819  | 3           | 10          | 5          | -0.0060 | 0.0007  | -0.0558 | -0.0011 | 0.0798 | -0.0023 |
| 823  | 3           | 10          | 10         | -0.0043 | 0.0018  | -0.0559 | -0.0013 | 0.0627 | -0.0006 |
| 827  | 3           | 10          | 15         | -0.0031 | 0.0025  | -0.0560 | -0.0016 | 0.0536 | 0.0000  |
| 873  | 3           | 20          | -10        | -0.0282 | -0.0971 | -0.0243 | -0.0344 | 0.0749 | -0.2431 |
| 874  | 3           | 20          | -10        | -0.0279 | -0.0951 | -0.0249 | -0.0325 | 0.0757 | -0.2380 |
| 869  | 3           | 20          | -5         | -0.0190 | -0.0285 | -0.0488 | -0.0191 | 0.1213 | -0.0639 |
| 844  | 3           | 20          | 0          | -0.0138 | -0.0073 | -0.0559 | -0.0134 | 0.1170 | -0.0200 |
| 848  | 3           | 20          | 5          | -0.0067 | -0.0041 | -0.0568 | -0.0091 | 0.0895 | -0.0097 |
| 852  | 3           | 20          | 10         | -0.0040 | -0.0058 | -0.0559 | -0.0114 | 0.0599 | -0.0076 |
| 881  | 3           | 20          | 15         | -0.0020 | -0.0080 | -0.0552 | -0.0143 | 0.0437 | -0.0068 |
| 1056 | 6           | -10         | -15        | -0.0011 | -0.0017 | -0.0563 | -0.0010 | 0.0267 | -0.0066 |
| 1052 | 6           | -10         | -10        | -0.0018 | -0.0003 | -0.0561 | 0.0001  | 0.0342 | -0.0033 |
| 1048 | 6           | -10         | -5         | -0.0030 | 0.0015  | -0.0559 | 0.0012  | 0.0429 | 0.0002  |
| 1014 | 6           | -10         | 0          | -0.0046 | 0.0043  | -0.0556 | 0.0047  | 0.0611 | 0.0039  |
| 1043 | 6           | -10         | 0          | -0.0044 | 0.0031  | -0.0560 | 0.0031  | 0.0576 | 0.0029  |
| 1042 | 6           | -10         | 5          | -0.0070 | 0.0154  | -0.0541 | 0.0101  | 0.0730 | 0.0135  |
| 1018 | 6           | -10         | 10         | -0.0112 | 0.0458  | -0.0491 | 0.0241  | 0.0923 | 0.0440  |
| 1022 | 6           | -10         | 15         | -0.0170 | 0.1280  | -0.0352 | 0.0529  | 0.1201 | 0.1522  |
| 1036 | 6           | -10         | 15         | -0.0138 | 0.1195  | -0.0364 | 0.0493  | 0.1173 | 0.1374  |
| 940  | 6           | 0           | -15        | -0.0018 | -0.0065 | -0.0549 | -0.0099 | 0.0361 | -0.0071 |
| 936  | 6           | 0           | -10        | -0.0014 | -0.0042 | -0.0550 | -0.0065 | 0.0343 | -0.0057 |
| 932  | 6           | 0           | -5         | -0.0015 | -0.0014 | -0.0549 | -0.0030 | 0.0337 | -0.0031 |
| 915  | 6           | 0           | 0          | -0.0017 | 0.0016  | -0.0550 | 0.0011  | 0.0342 | 0.0003  |
| 916  | 6           | 0           | 0          | -0.0015 | 0.0013  | -0.0549 | 0.0006  | 0.0330 | -0.0005 |
| 920  | 6           | 0           | 5          | -0.0014 | 0.0036  | -0.0549 | 0.0040  | 0.0342 | 0.0015  |
| 924  | 6           | 0           | 10         | -0.0019 | 0.0057  | -0.0549 | 0.0071  | 0.0355 | 0.0030  |
| 928  | 6           | 0           | 15         | -0.0024 | 0.0089  | -0.0550 | 0.0104  | 0.0398 | 0.0048  |
| 981  | 6           | 10          | -15        | -0.0093 | -0.0374 | -0.0501 | -0.0259 | 0.0831 | -0.0395 |
| 977  | 6           | 10          | -10        | -0.0069 | -0.0144 | -0.0539 | -0.0151 | 0.0684 | -0.0167 |
| 973  | 6           | 10          | -5         | -0.0038 | -0.0055 | -0.0551 | -0.0091 | 0.0531 | -0.0081 |
| 957  | 6           | 10          | 0          | -0.0025 | -0.0044 | -0.0555 | -0.0084 | 0.0386 | -0.0068 |
| 961  | 6           | 10          | 5          | -0.0015 | -0.0035 | -0.0552 | -0.0077 | 0.0329 | -0.0054 |
| 965  | 6           | 10          | 10         | -0.0008 | -0.0023 | -0.0554 | -0.0071 | 0.0282 | -0.0035 |
| 969  | 6           | 10          | 15         | -0.0002 | -0.0013 | -0.0555 | -0.0068 | 0.0244 | -0.0023 |
| 1005 | 6           | 20          | -15        | -0.0168 | -0.1272 | -0.0138 | -0.0476 | 0.0604 | -0.2007 |
| 1001 | 6           | 20          | -10        | -0.0118 | -0.0461 | -0.0428 | -0.0263 | 0.0808 | -0.0589 |
| 997  | 6           | 20          | -5         | -0.0080 | -0.0131 | -0.0544 | -0.0140 | 0.0773 | -0.0183 |
| 985  | 6           | 20          | 0          | -0.0051 | 0.0003  | -0.0590 | -0.0090 | 0.0637 | -0.0037 |
| 989  | 6           | 20          | 5          | -0.0014 | -0.0064 | -0.0561 | -0.0118 | 0.0394 | -0.0053 |
| 993  | 6           | 20          | 10         | -0.0004 | -0.0077 | -0.0555 | -0.0130 | 0.0304 | -0.0043 |
| 1010 | 6           | 20          | 10         | -0.0004 | -0.0091 | -0.0554 | -0.0147 | 0.0300 | -0.0072 |
| 1009 | 6           | 20          | 15         | -0.0001 | -0.0093 | -0.0553 | -0.0152 | 0.0238 | -0.0044 |

\* Indicates model was close to heave stop

TABLE 8.121.1 - NON-DIMENSIONAL STABILITY DATA IN BODY AXES AT TRANSOM

10 deg Deadrise, L/R = 0.234, Cv = 1.5

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X'      | Y'      | Z'      | K'      | M'     | N'      |
|--------|-------------|-------------|------------|---------|---------|---------|---------|--------|---------|
| 2472   | 0           | -10         | -15        | -0.0637 | -0.0339 | -0.4037 | 0.0128  | 1.1891 | -0.2001 |
| 2463   | 0           | -10         | -10        | -0.0548 | 0.0101  | -0.3938 | 0.0314  | 1.1217 | -0.0590 |
| 2459   | 0           | -10         | -5         | -0.0505 | 0.0408  | -0.3884 | 0.0449  | 1.0849 | 0.0469  |
| 2428   | 0           | -10         | 0          | -0.0309 | 0.0623  | -0.3846 | 0.0485  | 1.0329 | 0.1317  |
| 2432   | 0           | -10         | 5          | -0.0464 | 0.0863  | -0.3804 | 0.0540  | 1.0542 | 0.2133  |
| 2436   | 0           | -10         | 10         | -0.0581 | 0.1401  | -0.3709 | 0.0523  | 1.0874 | 0.3874  |
| 2455 * | 0           | -10         | 15         | -0.0903 | 0.2639  | -0.3501 | 0.0498  | 1.1511 | 0.7901  |
| 2349   | 0           | 0           | -15        | -0.0743 | -0.1487 | -0.3885 | -0.0153 | 1.0456 | -0.6055 |
| 2345   | 0           | 0           | -10        | -0.0581 | -0.0630 | -0.3885 | -0.0060 | 1.0348 | -0.2701 |
| 2341   | 0           | 0           | -5         | -0.0521 | -0.0285 | -0.3885 | -0.0015 | 1.0405 | -0.1313 |
| 2316   | 0           | 0           | 0          | -0.0460 | -0.0061 | -0.3742 | -0.0002 | 1.0237 | -0.0402 |
| 2318   | 0           | 0           | 0          | -0.0470 | -0.0054 | -0.3906 | 0.0023  | 1.0659 | -0.0409 |
| 2330   | 0           | 0           | 5          | -0.0488 | 0.0108  | -0.3896 | 0.0025  | 1.0794 | 0.0212  |
| 2335   | 0           | 0           | 10         | -0.0560 | 0.0359  | -0.3896 | 0.0047  | 1.1154 | 0.1119  |
| 2396   | 0           | 10          | -10        | -0.0638 | -0.1694 | -0.3636 | -0.0653 | 0.8977 | -0.5805 |
| 2391   | 0           | 10          | -5         | -0.0521 | -0.1042 | -0.3761 | -0.0617 | 0.9579 | -0.3395 |
| 2374   | 0           | 10          | 0          | -0.0363 | -0.0731 | -0.3816 | -0.0536 | 0.9867 | -0.2124 |
| 2379   | 0           | 10          | 5          | -0.0481 | -0.0547 | -0.3859 | -0.0485 | 1.0561 | -0.1548 |
| 2383   | 0           | 10          | 10         | -0.0540 | -0.0273 | -0.3908 | -0.0358 | 1.1237 | -0.0668 |
| 2387   | 0           | 10          | 15         | -0.0608 | 0.0103  | -0.3974 | -0.0221 | 1.1951 | 0.0505  |
| 2423 * | 0           | 20          | -15        | -0.0890 | -0.4362 | -0.2558 | -0.1274 | 0.4654 | -1.4818 |
| 2420   | 0           | 20          | -10        | -0.0606 | -0.2643 | -0.3184 | -0.1087 | 0.6975 | -0.8421 |
| 2416   | 0           | 20          | -5         | -0.0502 | -0.1763 | -0.3504 | -0.1000 | 0.8261 | -0.5269 |
| 2400   | 0           | 20          | 0          | -0.0398 | -0.1345 | -0.3656 | -0.0902 | 0.9012 | -0.3785 |
| 2404   | 0           | 20          | 5          | -0.0448 | -0.1110 | -0.3742 | -0.0876 | 0.9626 | -0.3062 |
| 2408   | 0           | 20          | 10         | -0.0467 | -0.0735 | -0.3867 | -0.0714 | 1.0358 | -0.1992 |
| 2412   | 0           | 20          | 15         | -0.0520 | -0.0327 | -0.4027 | -0.0510 | 1.1421 | -0.0870 |
| 2600   | 3           | -10         | -15        | -0.0265 | -0.0177 | -0.4007 | 0.0053  | 0.9283 | -0.0488 |
| 2596   | 3           | -10         | -10        | -0.0239 | 0.0245  | -0.3931 | 0.0331  | 0.8402 | 0.0143  |
| 2591   | 3           | -10         | -5         | -0.0253 | 0.0525  | -0.3882 | 0.0426  | 0.8155 | 0.0670  |
| 2586   | 3           | -10         | 0          | -0.0204 | 0.0769  | -0.3847 | 0.0559  | 0.7862 | 0.1199  |
| 2604   | 3           | -10         | 5          | -0.0254 | 0.1133  | -0.3786 | 0.0735  | 0.7941 | 0.1966  |
| 2608   | 3           | -10         | 10         | -0.0317 | 0.1636  | -0.3700 | 0.0775  | 0.8236 | 0.3020  |
| 2612   | 3           | -10         | 15         | -0.0480 | 0.2785  | -0.3507 | 0.0873  | 0.8925 | 0.5544  |
| 2502   | 3           | 0           | -15        | -0.0272 | -0.0672 | -0.3926 | -0.0307 | 0.8162 | -0.1673 |
| 2498   | 3           | 0           | -10        | -0.0249 | -0.0364 | -0.3925 | -0.0175 | 0.7839 | -0.0960 |
| 2494   | 3           | 0           | -5         | -0.0223 | -0.0096 | -0.3923 | -0.0040 | 0.7696 | -0.0376 |
| 2478   | 3           | 0           | 0          | -0.0201 | 0.0096  | -0.3933 | 0.0046  | 0.7767 | -0.0007 |
| 2482   | 3           | 0           | 5          | -0.0252 | 0.0354  | -0.3936 | 0.0209  | 0.8030 | 0.0466  |
| 2486   | 3           | 0           | 10         | -0.0286 | 0.0731  | -0.3927 | 0.0348  | 0.8470 | 0.1151  |
| 2490   | 3           | 0           | 15         | -0.0365 | 0.1352  | -0.3931 | 0.0508  | 0.9377 | 0.2331  |

\* Indicates model was close to heave stop

TABLE 8.121.2 - NON-DIMENSIONAL STABILITY DATA IN BODY AXES AT TRANSOM

10 deg Deadrise, L/R = 0.234, Cv = 1.5

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X'      | Y'      | Z'      | K'      | M'     | N'      |
|------|-------------|-------------|------------|---------|---------|---------|---------|--------|---------|
| 2536 | 3           | 10          | -15        | -0.0299 | -0.1743 | -0.3691 | -0.0638 | 0.6951 | -0.4175 |
| 2520 | 3           | 10          | -10        | -0.0273 | -0.1121 | -0.3789 | -0.0579 | 0.7083 | -0.2564 |
| 2516 | 3           | 10          | -5         | -0.0257 | -0.0766 | -0.3851 | -0.0520 | 0.7280 | -0.1646 |
| 2508 | 3           | 10          | 0          | -0.0238 | -0.0510 | -0.3895 | -0.0402 | 0.7509 | -0.1091 |
| 2512 | 3           | 10          | 5          | -0.0241 | -0.0257 | -0.3940 | -0.0263 | 0.7832 | -0.0609 |
| 2541 | 3           | 10          | 10         | -0.0255 | 0.0072  | -0.3998 | -0.0080 | 0.8198 | -0.0056 |
| 2546 | 3           | 10          | 15         | -0.0307 | 0.0472  | -0.4072 | 0.0153  | 0.9052 | 0.0498  |
| 2579 | 3           | 20          | -15        | -0.0356 | -0.3079 | -0.3050 | -0.1041 | 0.5223 | -0.7467 |
| 2575 | 3           | 20          | -10        | -0.0287 | -0.1960 | -0.3465 | -0.0933 | 0.6202 | -0.4396 |
| 2571 | 3           | 20          | -5         | -0.0274 | -0.1459 | -0.3647 | -0.0908 | 0.6743 | -0.3073 |
| 2567 | 3           | 20          | 0          | -0.0275 | -0.1138 | -0.3764 | -0.0808 | 0.7188 | -0.2356 |
| 2562 | 3           | 20          | 5          | -0.0278 | -0.0752 | -0.3904 | -0.0683 | 0.7664 | -0.1586 |
| 2557 | 3           | 20          | 10         | -0.0289 | -0.0401 | -0.4033 | -0.0515 | 0.8116 | -0.0937 |
| 2558 | 3           | 20          | 10         | -0.0289 | -0.0394 | -0.4035 | -0.0489 | 0.8109 | -0.0930 |
| 2553 | 3           | 20          | 15         | -0.0276 | -0.0105 | -0.4140 | -0.0249 | 0.8491 | -0.0480 |
| 3310 | 6           | -10         | -15        | -0.0089 | -0.0267 | -0.4056 | -0.0032 | 0.6942 | -0.0236 |
| 3306 | 6           | -10         | -10        | -0.0083 | 0.0095  | -0.4002 | 0.0196  | 0.6485 | 0.0115  |
| 3302 | 6           | -10         | -5         | -0.0119 | 0.0489  | -0.3937 | 0.0414  | 0.6128 | 0.0471  |
| 3285 | 6           | -10         | 0          | -0.0158 | 0.0869  | -0.3863 | 0.0584  | 0.6042 | 0.1001  |
| 3289 | 6           | -10         | 5          | -0.0154 | 0.1288  | -0.3789 | 0.0806  | 0.6065 | 0.1622  |
| 3294 | 6           | -10         | 10         | -0.0207 | 0.1956  | -0.3687 | 0.1020  | 0.6260 | 0.2600  |
| 3298 | 6           | -10         | 15         | -0.0263 | 0.3006  | -0.3508 | 0.1324  | 0.6528 | 0.4297  |
| 2659 | 6           | 0           | -15        | -0.0117 | -0.0769 | -0.3929 | -0.0367 | 0.6333 | -0.0980 |
| 2655 | 6           | 0           | -10        | -0.0108 | -0.0405 | -0.3939 | -0.0169 | 0.6096 | -0.0536 |
| 2651 | 6           | 0           | -5         | -0.0088 | -0.0052 | -0.3926 | 0.0026  | 0.5970 | -0.0102 |
| 2616 | 6           | 0           | 0          | -0.0100 | 0.0242  | -0.3938 | 0.0159  | 0.5931 | 0.0175  |
| 2621 | 6           | 0           | 5          | -0.0106 | 0.0571  | -0.3939 | 0.0360  | 0.6176 | 0.0559  |
| 2643 | 6           | 0           | 10         | -0.0124 | 0.0976  | -0.3941 | 0.0548  | 0.6500 | 0.1059  |
| 2647 | 6           | 0           | 15         | -0.0192 | 0.1637  | -0.3948 | 0.0839  | 0.6956 | 0.1885  |
| 2689 | 6           | 10          | -15        | -0.0150 | -0.1551 | -0.3731 | -0.0734 | 0.5635 | -0.2287 |
| 2684 | 6           | 10          | -10        | -0.0155 | -0.1017 | -0.3826 | -0.0569 | 0.5664 | -0.1453 |
| 2680 | 6           | 10          | -5         | -0.0156 | -0.0646 | -0.3891 | -0.0387 | 0.5811 | -0.0906 |
| 2664 | 6           | 10          | 0          | -0.0154 | -0.0266 | -0.3958 | -0.0175 | 0.5954 | -0.0349 |
| 2668 | 6           | 10          | 5          | -0.0150 | 0.0055  | -0.4014 | -0.0034 | 0.6161 | -0.0076 |
| 2672 | 6           | 10          | 10         | -0.0137 | 0.0355  | -0.4055 | 0.0152  | 0.6557 | 0.0228  |
| 2676 | 6           | 10          | 15         | -0.0134 | 0.0604  | -0.4098 | 0.0318  | 0.6793 | 0.0462  |
| 2702 | 6           | 20          | -15        | -0.0168 | -0.2463 | -0.3291 | -0.1048 | 0.4823 | -0.4037 |
| 2696 | 6           | 20          | -10        | -0.0131 | -0.1783 | -0.3546 | -0.0937 | 0.5173 | -0.2764 |
| 2697 | 6           | 20          | -10        | -0.0155 | -0.1797 | -0.3543 | -0.0938 | 0.5172 | -0.2800 |
| 2706 | 6           | 20          | -5         | -0.0156 | -0.1321 | -0.3717 | -0.0794 | 0.5459 | -0.1970 |
| 2710 | 6           | 20          | 0          | -0.0157 | -0.0844 | -0.3890 | -0.0610 | 0.5811 | -0.1258 |
| 2714 | 6           | 20          | 5          | -0.0160 | -0.0372 | -0.4062 | -0.0402 | 0.6198 | -0.0627 |
| 2718 | 6           | 20          | 10         | -0.0144 | -0.0099 | -0.4160 | -0.0181 | 0.6573 | -0.0394 |
| 2739 | 6           | 20          | 15         | -0.0128 | -0.0024 | -0.4186 | -0.0092 | 0.6643 | -0.0297 |

\* Indicates model was close to heave stop



TABLE 8.123.1 - NON-DIMENSIONAL STABILITY DATA IN BODY AXES AT TRANSOM

10 deg Deadrise, L/R = 0.234, Cv = 3

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X'      | Y'      | Z'      | K'      | M'      | N'      |
|------|-------------|-------------|------------|---------|---------|---------|---------|---------|---------|
| 2473 | 0           | -10         | -15        | -0.0415 | -0.0386 | -0.1058 | -0.0261 | 0.4760  | -0.1267 |
| 2464 | 0           | -10         | -10        | -0.0453 | -0.0268 | -0.1032 | -0.0138 | 0.4505  | -0.0965 |
| 2470 | 0           | -10         | -10        | -0.0448 | -0.0267 | -0.1036 | -0.0147 | 0.4496  | -0.0961 |
| 2460 | 0           | -10         | -5         | -0.0400 | -0.0073 | -0.0999 | -0.0014 | 0.3831  | -0.0470 |
| 2429 | 0           | -10         | 0          | -0.0321 | 0.0151  | -0.0960 | 0.0106  | 0.3329  | 0.0112  |
| 2433 | 0           | -10         | 5          | -0.0489 | 0.0574  | -0.0885 | 0.0213  | 0.3615  | 0.1021  |
| 2437 | * 0         | -10         | 10         | -0.0670 | 0.1717  | -0.0682 | 0.0492  | 0.3599  | 0.4058  |
| 2457 | * 0         | -10         | 15         | -0.0712 | 0.2742  | -0.0504 | 0.0617  | 0.3814  | 0.6854  |
| 2350 | * 0         | 0           | -15        | -0.0755 | -0.2035 | -0.0969 | -0.0566 | 0.3370  | -0.7368 |
| 2346 | 0           | 0           | -10        | -0.0556 | -0.0756 | -0.0970 | -0.0227 | 0.3408  | -0.2720 |
| 2342 | 0           | 0           | -5         | -0.0416 | -0.0246 | -0.0970 | -0.0098 | 0.3185  | -0.0881 |
| 2319 | 0           | 0           | 0          | -0.0339 | -0.0002 | -0.0937 | 0.0012  | 0.3062  | -0.0197 |
| 2320 | 0           | 0           | 0          | -0.0337 | -0.0008 | -0.0974 | 0.0004  | 0.3149  | -0.0210 |
| 2331 | 0           | 0           | 5          | -0.0415 | 0.0254  | -0.0971 | 0.0087  | 0.3561  | 0.0327  |
| 2332 | 0           | 0           | 5          | -0.0415 | 0.0253  | -0.0969 | 0.0089  | 0.3548  | 0.0323  |
| 2337 | * 0         | 0           | 10         | -0.0647 | 0.1347  | -0.0970 | 0.0409  | 0.4112  | 0.2642  |
| 2338 | * 0         | 0           | 10         | -0.0655 | 0.1345  | -0.0969 | 0.0413  | 0.4135  | 0.2628  |
| 2397 | * 0         | 10          | -10        | -0.0679 | -0.1690 | -0.0682 | -0.0470 | 0.1268  | -0.6362 |
| 2392 | 0           | 10          | -5         | -0.0434 | -0.0495 | -0.0898 | -0.0187 | 0.2309  | -0.1686 |
| 2375 | 0           | 10          | 0          | -0.0343 | -0.0173 | -0.0953 | -0.0095 | 0.2728  | -0.0558 |
| 2380 | 0           | 10          | 5          | -0.0361 | 0.0015  | -0.0989 | -0.0013 | 0.3302  | -0.0096 |
| 2384 | 0           | 10          | 10         | -0.0393 | 0.0285  | -0.1034 | 0.0135  | 0.3832  | 0.0403  |
| 2388 | 0           | 10          | 15         | -0.0331 | 0.0285  | -0.1035 | 0.0249  | 0.3732  | 0.0527  |
| 2421 | * 0         | 20          | -10        | -0.0695 | -0.2112 | -0.0263 | -0.0585 | -0.0519 | -0.7937 |
| 2417 | 0           | 20          | -5         | -0.0429 | -0.0778 | -0.0752 | -0.0289 | 0.1375  | -0.2662 |
| 2401 | 0           | 20          | 0          | -0.0356 | -0.0356 | -0.0906 | -0.0209 | 0.2263  | -0.1085 |
| 2405 | 0           | 20          | 5          | -0.0328 | -0.0077 | -0.1006 | -0.0108 | 0.2778  | -0.0262 |
| 2409 | 0           | 20          | 10         | -0.0270 | 0.0016  | -0.1041 | -0.0011 | 0.2902  | -0.0140 |
| 2413 | 0           | 20          | 15         | -0.0216 | 0.0019  | -0.1041 | -0.0059 | 0.2593  | -0.0127 |
| 2601 | 3           | -10         | -15        | -0.0087 | -0.0054 | -0.1005 | -0.0030 | 0.1993  | -0.0079 |
| 2597 | 3           | -10         | -10        | -0.0116 | -0.0021 | -0.1000 | 0.0020  | 0.2421  | -0.0038 |
| 2592 | 3           | -10         | -5         | -0.0136 | 0.0027  | -0.0990 | 0.0079  | 0.2597  | 0.0058  |
| 2587 | 3           | -10         | 0          | -0.0165 | 0.0246  | -0.0953 | 0.0196  | 0.2431  | 0.0320  |
| 2605 | 3           | -10         | 5          | -0.0221 | 0.0615  | -0.0894 | 0.0330  | 0.2528  | 0.0887  |
| 2609 | 3           | -10         | 10         | -0.0332 | 0.1322  | -0.0775 | 0.0536  | 0.2884  | 0.2135  |
| 2613 | * 3         | -10         | 15         | -0.0582 | 0.3041  | -0.0481 | 0.0963  | 0.3724  | 0.6240  |
| 2503 | 3           | 0           | -15        | -0.0203 | -0.0378 | -0.0986 | -0.0239 | 0.2492  | -0.0765 |
| 2499 | 3           | 0           | -10        | -0.0178 | -0.0170 | -0.0985 | -0.0125 | 0.2367  | -0.0370 |
| 2495 | 3           | 0           | -5         | -0.0152 | -0.0047 | -0.0983 | -0.0035 | 0.2306  | -0.0135 |
| 2479 | 3           | 0           | 0          | -0.0143 | 0.0069  | -0.0984 | 0.0057  | 0.2292  | 0.0031  |
| 2483 | 3           | 0           | 5          | -0.0171 | 0.0245  | -0.0986 | 0.0164  | 0.2358  | 0.0261  |
| 2487 | 3           | 0           | 10         | -0.0205 | 0.0549  | -0.0983 | 0.0308  | 0.2572  | 0.0670  |
| 2491 | 3           | 0           | 15         | -0.0268 | 0.1100  | -0.0989 | 0.0519  | 0.3082  | 0.1479  |

\* Indicates model was close to heave stop

TABLE 8.123.2 - NON-DIMENSIONAL STABILITY DATA IN BODY AXES AT TRANSOM

10 deg Deadrise, L/R = 0.234, Cv = 3

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X'      | Y'      | Z'      | K'      | M'      | N'      |
|------|-------------|-------------|------------|---------|---------|---------|---------|---------|---------|
| 2537 | 3           | 10          | -15        | -0.0337 | -0.1446 | -0.0755 | -0.0435 | 0.1737  | -0.3866 |
| 2521 | 3           | 10          | -10        | -0.0245 | -0.0494 | -0.0916 | -0.0229 | 0.1954  | -0.1161 |
| 2517 | 3           | 10          | -5         | -0.0200 | -0.0192 | -0.0964 | -0.0133 | 0.2014  | -0.0389 |
| 2509 | 3           | 10          | 0          | -0.0158 | -0.0016 | -0.0996 | -0.0033 | 0.2079  | -0.0096 |
| 2513 | 3           | 10          | 5          | -0.0128 | 0.0038  | -0.1004 | 0.0049  | 0.1897  | 0.0007  |
| 2542 | 3           | 10          | 10         | -0.0096 | 0.0088  | -0.1011 | 0.0112  | 0.1460  | 0.0093  |
| 2547 | 3           | 10          | 15         | -0.0074 | 0.0101  | -0.1012 | 0.0109  | 0.1088  | 0.0087  |
| 2580 | 3           | 20          | -15        | -0.0370 | -0.2469 | -0.0158 | -0.0556 | -0.0524 | -0.7303 |
| 2576 | 3           | 20          | -10        | -0.0255 | -0.0834 | -0.0749 | -0.0282 | 0.1326  | -0.2121 |
| 2572 | 3           | 20          | -5         | -0.0213 | -0.0386 | -0.0908 | -0.0228 | 0.1760  | -0.0836 |
| 2568 | 3           | 20          | 0          | -0.0175 | -0.0133 | -0.0995 | -0.0130 | 0.1845  | -0.0275 |
| 2563 | 3           | 20          | 5          | -0.0106 | -0.0013 | -0.1038 | -0.0057 | 0.1690  | -0.0074 |
| 2564 | 3           | 20          | 5          | -0.0103 | -0.0009 | -0.1038 | -0.0056 | 0.1688  | -0.0066 |
| 2559 | 3           | 20          | 10         | -0.0076 | -0.0012 | -0.1038 | -0.0071 | 0.1316  | -0.0047 |
| 2554 | 3           | 20          | 15         | -0.0056 | -0.0050 | -0.1023 | -0.0120 | 0.1023  | -0.0054 |
| 3311 | 6           | -10         | -15        | -0.0029 | -0.0034 | -0.1006 | -0.0024 | 0.0915  | -0.0041 |
| 3307 | 6           | -10         | -10        | -0.0043 | -0.0006 | -0.1003 | 0.0010  | 0.1166  | -0.0001 |
| 3303 | 6           | -10         | -5         | -0.0057 | 0.0044  | -0.0996 | 0.0078  | 0.1434  | 0.0088  |
| 3286 | 6           | -10         | 0          | -0.0095 | 0.0200  | -0.0971 | 0.0173  | 0.1540  | 0.0189  |
| 3291 | 6           | -10         | 5          | -0.0133 | 0.0493  | -0.0926 | 0.0320  | 0.1621  | 0.0501  |
| 3295 | 6           | -10         | 10         | -0.0170 | 0.1048  | -0.0832 | 0.0547  | 0.1789  | 0.1177  |
| 3299 | 6           | -10         | 15         | -0.0232 | 0.2160  | -0.0642 | 0.0943  | 0.2131  | 0.2945  |
| 2660 | 6           | 0           | -15        | -0.0050 | -0.0087 | -0.0981 | -0.0095 | 0.1225  | -0.0098 |
| 2656 | 6           | 0           | -10        | -0.0027 | -0.0033 | -0.0981 | -0.0029 | 0.1184  | -0.0044 |
| 2652 | 6           | 0           | -5         | -0.0033 | 0.0004  | -0.0981 | 0.0027  | 0.1150  | 0.0004  |
| 2617 | 6           | 0           | 0          | -0.0053 | 0.0037  | -0.0985 | 0.0078  | 0.1174  | 0.0043  |
| 2618 | 6           | 0           | 0          | -0.0041 | 0.0039  | -0.0981 | 0.0078  | 0.1148  | 0.0051  |
| 2622 | 6           | 0           | 5          | -0.0045 | 0.0094  | -0.0983 | 0.0136  | 0.1128  | 0.0087  |
| 2644 | 6           | 0           | 10         | -0.0058 | 0.0194  | -0.0985 | 0.0211  | 0.1138  | 0.0163  |
| 2648 | 6           | 0           | 15         | -0.0078 | 0.0342  | -0.0986 | 0.0300  | 0.1220  | 0.0272  |
| 2690 | 6           | 10          | -15        | -0.0117 | -0.0434 | -0.0929 | -0.0240 | 0.1536  | -0.0574 |
| 2685 | 6           | 10          | -10        | -0.0097 | -0.0142 | -0.0977 | -0.0119 | 0.1438  | -0.0204 |
| 2681 | 6           | 10          | -5         | -0.0084 | 0.0009  | -0.1006 | -0.0027 | 0.1305  | -0.0030 |
| 2665 | 6           | 10          | 0          | -0.0048 | -0.0006 | -0.0998 | 0.0004  | 0.1019  | -0.0020 |
| 2669 | 6           | 10          | 5          | -0.0047 | 0.0029  | -0.1002 | 0.0049  | 0.0763  | 0.0030  |
| 2673 | 6           | 10          | 10         | -0.0039 | 0.0036  | -0.0999 | 0.0047  | 0.0659  | 0.0039  |
| 2677 | 6           | 10          | 15         | -0.0032 | 0.0056  | -0.1008 | 0.0057  | 0.0540  | 0.0069  |
| 2703 | 6           | 20          | -15        | -0.0182 | -0.1198 | -0.0624 | -0.0425 | 0.1013  | -0.2102 |
| 2698 | 6           | 20          | -10        | -0.0149 | -0.0482 | -0.0883 | -0.0262 | 0.1382  | -0.0772 |
| 2707 | 6           | 20          | -5         | -0.0120 | -0.0138 | -0.1003 | -0.0127 | 0.1434  | -0.0234 |
| 2711 | 6           | 20          | 0          | -0.0082 | 0.0059  | -0.1070 | -0.0037 | 0.1245  | 0.0017  |
| 2715 | 6           | 20          | 5          | -0.0053 | -0.0020 | -0.1041 | -0.0061 | 0.0872  | 0.0004  |
| 2719 | 6           | 20          | 10         | -0.0032 | -0.0055 | -0.1023 | -0.0095 | 0.0721  | -0.0017 |
| 2740 | 6           | 20          | 15         | -0.0025 | -0.0070 | -0.1017 | -0.0120 | 0.0600  | -0.0002 |

\* Indicates model was close to heave stop

TABLE 8.124.1 - NON-DIMENSIONAL STABILITY DATA IN BODY AXES AT TRANSOM

10 deg Deadrise, L/R = 0.234, Cv = 4

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X'      | Y'      | Z'      | K'      | M'     | N'      |
|--------|-------------|-------------|------------|---------|---------|---------|---------|--------|---------|
| 2474   | 0           | -10         | -15        | -0.0243 | -0.0245 | -0.0597 | -0.0214 | 0.2997 | -0.0789 |
| 2468   | 0           | -10         | -10        | -0.0386 | -0.0226 | -0.0593 | -0.0156 | 0.3482 | -0.0891 |
| 2469   | 0           | -10         | -10        | -0.0392 | -0.0232 | -0.0595 | -0.0160 | 0.3505 | -0.0907 |
| 2461   | 0           | -10         | -5         | -0.0347 | -0.0101 | -0.0571 | -0.0063 | 0.3062 | -0.0462 |
| 2430   | 0           | -10         | 0          | -0.0281 | 0.0047  | -0.0545 | 0.0037  | 0.2405 | -0.0060 |
| 2434   | 0           | -10         | 5          | -0.0506 | 0.0621  | -0.0443 | 0.0232  | 0.2532 | 0.1022  |
| 2352   | 0           | 0           | -15        | -0.0721 | -0.1857 | -0.0573 | -0.0482 | 0.2554 | -0.6991 |
| 2347   | 0           | 0           | -10        | -0.0485 | -0.0615 | -0.0549 | -0.0185 | 0.2532 | -0.2332 |
| 2343   | 0           | 0           | -5         | -0.0381 | -0.0196 | -0.0550 | -0.0090 | 0.2388 | -0.0767 |
| 2322   | 0           | 0           | 0          | -0.0286 | -0.0015 | -0.0558 | 0.0011  | 0.2253 | -0.0196 |
| 2323   | 0           | 0           | 0          | -0.0277 | -0.0010 | -0.0540 | 0.0019  | 0.2207 | -0.0178 |
| 2324   | 0           | 0           | 0          | -0.0270 | -0.0009 | -0.0548 | 0.0012  | 0.2212 | -0.0173 |
| 2326   | 0           | 0           | 0          | -0.0280 | -0.0010 | -0.0549 | 0.0011  | 0.2224 | -0.0182 |
| 2327   | 0           | 0           | 0          | -0.0292 | -0.0015 | -0.0554 | 0.0010  | 0.2249 | -0.0195 |
| 2328   | 0           | 0           | 0          | -0.0277 | -0.0020 | -0.0550 | 0.0005  | 0.2228 | -0.0202 |
| 2333   | 0           | 0           | 5          | -0.0373 | 0.0259  | -0.0551 | 0.0103  | 0.2562 | 0.0259  |
| 2339 * | 0           | 0           | 10         | -0.0564 | 0.1197  | -0.0549 | 0.0408  | 0.2983 | 0.2263  |
| 2394   | 0           | 10          | -5         | -0.0413 | -0.0410 | -0.0487 | -0.0134 | 0.1463 | -0.1606 |
| 2376   | 0           | 10          | 0          | -0.0322 | -0.0082 | -0.0570 | -0.0032 | 0.1849 | -0.0338 |
| 2377   | 0           | 10          | 0          | -0.0314 | -0.0079 | -0.0544 | -0.0036 | 0.1796 | -0.0326 |
| 2381   | 0           | 10          | 5          | -0.0317 | 0.0076  | -0.0573 | 0.0050  | 0.2322 | 0.0020  |
| 2385   | 0           | 10          | 10         | -0.0254 | 0.0158  | -0.0586 | 0.0146  | 0.2379 | 0.0238  |
| 2389   | 0           | 10          | 15         | -0.0168 | 0.0164  | -0.0588 | 0.0177  | 0.1878 | 0.0300  |
| 2418   | 0           | 20          | -5         | -0.0415 | -0.0651 | -0.0342 | -0.0191 | 0.0398 | -0.2576 |
| 2402   | 0           | 20          | 0          | -0.0327 | -0.0179 | -0.0521 | -0.0091 | 0.1383 | -0.0719 |
| 2406   | 0           | 20          | 5          | -0.0267 | 0.0075  | -0.0614 | 0.0001  | 0.1745 | 0.0122  |
| 2410   | 0           | 20          | 10         | -0.0173 | 0.0049  | -0.0598 | -0.0024 | 0.1543 | 0.0026  |
| 2414   | 0           | 20          | 15         | -0.0094 | -0.0026 | -0.0569 | -0.0105 | 0.1137 | -0.0078 |
| 2602   | 3           | -10         | -15        | -0.0037 | -0.0053 | -0.0568 | -0.0022 | 0.0716 | -0.0065 |
| 2598   | 3           | -10         | -10        | -0.0062 | -0.0028 | -0.0565 | 0.0006  | 0.1126 | -0.0038 |
| 2593   | 3           | -10         | -5         | -0.0093 | -0.0002 | -0.0562 | 0.0045  | 0.1574 | 0.0005  |
| 2588   | 3           | -10         | 0          | -0.0120 | 0.0155  | -0.0534 | 0.0137  | 0.1561 | 0.0185  |
| 2606   | 3           | -10         | 5          | -0.0183 | 0.0521  | -0.0473 | 0.0277  | 0.1690 | 0.0719  |
| 2610   | 3           | -10         | 10         | -0.0281 | 0.1178  | -0.0363 | 0.0470  | 0.2051 | 0.1872  |
| 2504   | 3           | 0           | -15        | -0.0163 | -0.0252 | -0.0558 | -0.0183 | 0.1484 | -0.0514 |
| 2500   | 3           | 0           | -10        | -0.0141 | -0.0075 | -0.0557 | -0.0081 | 0.1418 | -0.0215 |
| 2496   | 3           | 0           | -5         | -0.0115 | -0.0005 | -0.0557 | -0.0015 | 0.1431 | -0.0060 |
| 2480   | 3           | 0           | 0          | -0.0102 | 0.0054  | -0.0553 | 0.0055  | 0.1334 | 0.0045  |
| 2484   | 3           | 0           | 5          | -0.0118 | 0.0188  | -0.0554 | 0.0143  | 0.1300 | 0.0205  |
| 2488   | 3           | 0           | 10         | -0.0143 | 0.0389  | -0.0555 | 0.0249  | 0.1420 | 0.0451  |
| 2492   | 3           | 0           | 15         | -0.0175 | 0.0745  | -0.0558 | 0.0398  | 0.1720 | 0.0897  |

\* Indicates model was close to heave stop

TABLE 8.124.2 - NON-DIMENSIONAL STABILITY DATA IN BODY AXES AT TRANSOM

10 deg Deadrise, L/R = 0.234, Cv = 4

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X'      | Y'      | Z'      | K'      | M'     | N'      |
|------|-------------|-------------|------------|---------|---------|---------|---------|--------|---------|
| 2538 | 3           | 10          | -15        | -0.0301 | -0.1356 | -0.0333 | -0.0407 | 0.1035 | -0.3763 |
| 2522 | 3           | 10          | -10        | -0.0229 | -0.0363 | -0.0506 | -0.0156 | 0.1276 | -0.1046 |
| 2518 | 3           | 10          | -5         | -0.081  | -0.0031 | -0.0560 | -0.0046 | 0.1306 | -0.0166 |
| 2510 | 3           | 10          | 0          | -0.0097 | 0.0032  | -0.0567 | 0.0015  | 0.1049 | 0.0039  |
| 2514 | 3           | 10          | 5          | -0.0056 | 0.0064  | -0.0573 | 0.0062  | 0.0635 | 0.0088  |
| 2543 | 3           | 10          | 10         | -0.0038 | 0.0073  | -0.0569 | 0.0057  | 0.0414 | 0.0099  |
| 2544 | 3           | 10          | 10         | -0.0035 | 0.0066  | -0.0570 | 0.0050  | 0.0435 | 0.0089  |
| 2548 | 3           | 10          | 15         | -0.0031 | 0.0071  | -0.0569 | 0.0040  | 0.0329 | 0.0101  |
| 2549 | 3           | 10          | 15         | -0.0030 | 0.0068  | -0.0568 | 0.0038  | 0.0323 | 0.0092  |
| 2577 | 3           | 20          | -10        | -0.0226 | -0.0673 | -0.0351 | -0.0182 | 0.0619 | -0.1935 |
| 2573 | 3           | 20          | -5         | -0.0188 | -0.0173 | -0.0532 | -0.0110 | 0.1087 | -0.0510 |
| 2569 | 3           | 20          | 0          | -0.0138 | 0.0041  | -0.0605 | -0.0029 | 0.1043 | 0.0027  |
| 2565 | 3           | 20          | 5          | -0.0045 | -0.0005 | -0.0584 | -0.0052 | 0.0682 | 0.0010  |
| 2560 | 3           | 20          | 10         | -0.0025 | -0.0020 | -0.0576 | -0.0082 | 0.0407 | 0.0045  |
| 2555 | 3           | 20          | 15         | -0.0010 | -0.0054 | -0.0563 | -0.0114 | 0.0273 | 0.0039  |
| 3312 | 6           | -10         | -15        | -0.0015 | -0.0028 | -0.0569 | -0.0002 | 0.0094 | -0.0075 |
| 3308 | 6           | -10         | -10        | -0.0014 | -0.0002 | -0.0564 | 0.0019  | 0.0235 | -0.0026 |
| 3304 | 6           | -10         | -5         | -0.0031 | 0.0024  | -0.0562 | 0.0056  | 0.0437 | 0.0028  |
| 3287 | 6           | -10         | 0          | -0.0071 | 0.0107  | -0.0548 | 0.0117  | 0.0635 | 0.0084  |
| 3292 | 6           | -10         | 5          | -0.0094 | 0.0318  | -0.0515 | 0.0222  | 0.0759 | 0.0284  |
| 3296 | 6           | -10         | 10         | -0.0125 | 0.0741  | -0.0444 | 0.0395  | 0.0958 | 0.0735  |
| 2661 | 6           | 0           | -15        | -0.0004 | -0.0037 | -0.0548 | -0.0049 | 0.0258 | -0.0019 |
| 2657 | 6           | 0           | -10        | -0.0009 | -0.0007 | -0.0548 | -0.0005 | 0.0209 | 0.0017  |
| 2653 | 6           | 0           | -5         | -0.0010 | 0.0015  | -0.0548 | 0.0027  | 0.0194 | 0.0033  |
| 2619 | 6           | 0           | 0          | -0.0017 | 0.0038  | -0.0554 | 0.0065  | 0.0184 | 0.0046  |
| 2623 | 6           | 0           | 5          | -0.0014 | 0.0064  | -0.0551 | 0.0104  | 0.0169 | 0.0071  |
| 2645 | 6           | 0           | 10         | -0.0017 | 0.0106  | -0.0550 | 0.0151  | 0.0177 | 0.0099  |
| 2649 | 6           | 0           | 15         | -0.0026 | 0.0150  | -0.0550 | 0.0195  | 0.0221 | 0.0121  |
| 2691 | 6           | 10          | -15        | -0.0081 | -0.0262 | -0.0521 | -0.0160 | 0.0712 | -0.0269 |
| 2743 | 6           | 10          | -15        | -0.0081 | -0.0251 | -0.0521 | -0.0156 | 0.0718 | -0.0253 |
| 2686 | 6           | 10          | -10        | -0.0060 | -0.0041 | -0.0530 | -0.0058 | 0.0566 | -0.0029 |
| 2687 | 6           | 10          | -10        | -0.0063 | -0.0038 | -0.0560 | -0.0056 | 0.0568 | -0.0023 |
| 2682 | 6           | 10          | -5         | -0.0031 | 0.0011  | -0.0564 | -0.0010 | 0.0344 | 0.0041  |
| 2666 | 6           | 10          | 0          | -0.0005 | 0.0008  | -0.0558 | -0.0004 | 0.0188 | 0.0053  |
| 2670 | 6           | 10          | 5          | -0.0007 | 0.0017  | -0.0560 | 0.0001  | 0.0131 | 0.0068  |
| 2674 | 6           | 10          | 10         | -0.0011 | 0.0032  | -0.0561 | 0.0007  | 0.0051 | 0.0090  |
| 2678 | 6           | 10          | 15         | 0.0000  | 0.0029  | -0.0565 | 0.0001  | 0.0043 | 0.0081  |
| 2704 | 6           | 20          | -15        | -0.0161 | -0.1028 | -0.0228 | -0.0342 | 0.0400 | -0.1824 |
| 2699 | 6           | 20          | -10        | -0.0112 | -0.0272 | -0.0498 | -0.0151 | 0.0701 | -0.0377 |
| 2700 | 6           | 20          | -10        | -0.0117 | -0.0269 | -0.0502 | -0.0152 | 0.0705 | -0.0380 |
| 2708 | 6           | 20          | -5         | -0.0076 | 0.0011  | -0.0597 | -0.0043 | 0.0644 | 0.0013  |
| 2712 | 6           | 20          | 0          | -0.0046 | 0.0088  | -0.0624 | -0.0022 | 0.0476 | 0.0109  |
| 2716 | 6           | 20          | 5          | -0.0014 | -0.0010 | -0.0583 | -0.0066 | 0.0191 | 0.0102  |
| 2737 | 6           | 20          | 5          | -0.0005 | -0.0025 | -0.0577 | -0.0072 | 0.0224 | 0.0062  |
| 2736 | 6           | 20          | 10         | 0.0002  | -0.0035 | -0.0571 | -0.0095 | 0.0106 | 0.0091  |
| 2741 | 6           | 20          | 15         | 0.0006  | -0.0057 | -0.0562 | -0.0103 | 0.0087 | 0.0072  |

\* Indicates model was close to heave stop

TABLE 8.201.1 - NON-DIMENSIONAL STABILITY DATA IN BODY AXES AT TRANSOM

20 deg Deadrise, L/R = 0.000, Cv = 1.5

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X'      | Y'      | Z'      | K'      | M'     | N'      |
|--------|-------------|-------------|------------|---------|---------|---------|---------|--------|---------|
| 1709   | -2          | -10         | 0          | -0.0625 | 0.0703  | -0.3812 | 0.0430  | 1.1396 | 0.2131  |
| 1713   | -2          | -10         | 5          | -0.0666 | 0.1078  | -0.3744 | 0.0619  | 1.1211 | 0.3898  |
| 1716 * | -2          | -10         | 10         | -0.0765 | 0.1811  | -0.3612 | 0.0825  | 1.1055 | 0.7180  |
| 1718 * | -2          | -10         | 15         | -0.0833 | 0.3003  | -0.3389 | 0.1199  | 1.0872 | 1.1947  |
| 1645   | -2          | 0           | 0          | -0.0633 | -0.0007 | -0.3865 | 0.0019  | 1.1732 | 0.0007  |
| 1648   | -2          | 0           | 5          | -0.0667 | 0.0336  | -0.3864 | 0.0134  | 1.1827 | 0.1574  |
| 1653   | -2          | 0           | 10         | -0.0816 | 0.1082  | -0.3870 | 0.0372  | 1.2127 | 0.4686  |
| 1656 * | -2          | 0           | 15         | -0.1002 | 0.2487  | -0.3853 | 0.0918  | 1.2823 | 1.0295  |
| 1660   | -2          | 10          | 0          | -0.0619 | -0.0708 | -0.3801 | -0.0425 | 1.1334 | -0.2114 |
| 1664   | -2          | 10          | 5          | -0.0633 | -0.0420 | -0.3851 | -0.0346 | 1.1742 | -0.0796 |
| 1681   | -2          | 10          | 5          | -0.0635 | -0.0411 | -0.3863 | -0.0351 | 1.1774 | -0.0744 |
| 1683   | -2          | 10          | 10         | -0.0748 | 0.0152  | -0.3959 | -0.0128 | 1.2605 | 0.1589  |
| 1686 * | -2          | 10          | 15         | -0.0954 | 0.1394  | -0.4159 | 0.0376  | 1.4105 | 0.6469  |
| 1692   | -2          | 20          | 0          | -0.0603 | -0.1383 | -0.3611 | -0.0838 | 1.0487 | -0.4049 |
| 1696   | -2          | 20          | 5          | -0.0611 | -0.1095 | -0.3727 | -0.0699 | 1.1197 | -0.2727 |
| 1699   | -2          | 20          | 10         | -0.0647 | -0.0596 | -0.3907 | -0.0504 | 1.2444 | -0.0752 |
| 1703 * | -2          | 20          | 15         | -0.0838 | 0.0460  | -0.4284 | -0.0156 | 1.4443 | 0.3354  |
| 1627   | 0           | -10         | 0          | -0.0410 | 0.0705  | -0.3821 | 0.0504  | 0.9662 | 0.1846  |
| 1631   | 0           | -10         | 5          | -0.0438 | 0.0997  | -0.3748 | 0.0638  | 0.9470 | 0.3000  |
| 1635   | 0           | -10         | 10         | -0.0537 | 0.1585  | -0.3644 | 0.0824  | 0.9435 | 0.5216  |
| 1639 * | 0           | -10         | 15         | -0.0706 | 0.2872  | -0.3449 | 0.1260  | 0.9542 | 0.9874  |
| 1560   | 0           | 0           | 0          | -0.0414 | 0.0007  | -0.3896 | 0.0011  | 0.9921 | 0.0033  |
| 1564   | 0           | 0           | 5          | -0.0447 | 0.0262  | -0.3885 | 0.0142  | 0.9929 | 0.1072  |
| 1568   | 0           | 0           | 10         | -0.0520 | 0.0703  | -0.3885 | 0.0323  | 1.0319 | 0.2774  |
| 1572 * | 0           | 0           | 15         | -0.0677 | 0.1831  | -0.3885 | 0.0699  | 1.1006 | 0.6765  |
| 1577   | 0           | 10          | 0          | -0.0410 | -0.0705 | -0.3821 | -0.0515 | 0.9607 | -0.1822 |
| 1582   | 0           | 10          | 5          | -0.0437 | -0.0467 | -0.3863 | -0.0392 | 0.9933 | -0.0802 |
| 1586   | 0           | 10          | 10         | -0.0506 | -0.0052 | -0.3936 | -0.0183 | 1.0606 | 0.0729  |
| 1591   | 0           | 10          | 15         | -0.0628 | 0.0783  | -0.4073 | 0.0194  | 1.1765 | 0.3535  |
| 1607   | 0           | 20          | 0          | -0.0401 | -0.1403 | -0.3635 | -0.0874 | 0.8990 | -0.3583 |
| 1611   | 0           | 20          | 5          | -0.0396 | -0.1153 | -0.3704 | -0.0798 | 0.9429 | -0.2669 |
| 1615   | 0           | 20          | 10         | -0.0442 | -0.0751 | -0.3861 | -0.0618 | 1.0341 | -0.1317 |
| 1619   | 0           | 20          | 15         | -0.0559 | -0.0066 | -0.4111 | -0.0270 | 1.1904 | 0.0902  |
| 1397   | 3           | -10         | 0          | -0.0234 | 0.0740  | -0.3843 | 0.0557  | 0.7306 | 0.1434  |
| 1393   | 3           | -10         | 5          | -0.0250 | 0.1009  | -0.3786 | 0.0687  | 0.7296 | 0.2083  |
| 1390   | 3           | -10         | 10         | -0.0316 | 0.1488  | -0.3705 | 0.0858  | 0.7461 | 0.3267  |
| 1405   | 3           | 0           | 0          | -0.0186 | 0.0031  | -0.3911 | 0.0044  | 0.7322 | 0.0080  |
| 1409   | 3           | 0           | 5          | -0.0240 | 0.0282  | -0.3903 | 0.0180  | 0.7408 | 0.0683  |
| 1413   | 3           | 0           | 10         | -0.0282 | 0.0680  | -0.3905 | 0.0398  | 0.7708 | 0.1614  |
| 1417   | 3           | 0           | 15         | -0.0378 | 0.1554  | -0.3910 | 0.0799  | 0.8397 | 0.3668  |

\* Indicates model was close to heave stop

TABLE 8.201.2 - NON-DIMENSIONAL STABILITY DATA IN BODY AXES AT TRANSOM

20 deg Deadrise, L/R = 0.000, Cv = 1.5

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X'      | Y'      | Z'      | K'      | M'     | N'      |
|------|-------------|-------------|------------|---------|---------|---------|---------|--------|---------|
| 1436 | 3           | 10          | 0          | -0.0226 | -0.0704 | -0.3838 | -0.0529 | 0.7290 | -0.1330 |
| 1440 | 3           | 10          | 5          | -0.0227 | -0.0433 | -0.3886 | -0.0378 | 0.7483 | -0.0737 |
| 1445 | 3           | 10          | 10         | -0.0255 | -0.0035 | -0.3958 | -0.0107 | 0.8023 | 0.0071  |
| 1449 | 3           | 10          | 15         | -0.0307 | 0.0522  | -0.4059 | 0.0227  | 0.8912 | 0.1269  |
| 1457 | 3           | 20          | 0          | -0.0216 | -0.1322 | -0.3671 | -0.0856 | 0.7038 | -0.2457 |
| 1461 | 3           | 20          | 5          | -0.0243 | -0.1051 | -0.3771 | -0.0769 | 0.7371 | -0.1947 |
| 1465 | 3           | 20          | 10         | -0.0266 | -0.0622 | -0.3940 | -0.0562 | 0.8053 | -0.1256 |
| 1469 | 3           | 20          | 15         | -0.0291 | -0.0184 | -0.4089 | -0.0274 | 0.9021 | -0.0555 |
| 1541 | 6           | -10         | 0          | -0.0126 | 0.0644  | -0.3867 | 0.0458  | 0.5742 | 0.0960  |
| 1545 | 6           | -10         | 5          | -0.0150 | 0.1009  | -0.3805 | 0.0653  | 0.5718 | 0.1458  |
| 1549 | 6           | -10         | 10         | -0.0178 | 0.1474  | -0.3726 | 0.0878  | 0.5842 | 0.2179  |
| 1553 | 6           | -10         | 15         | -0.0237 | 0.2323  | -0.3583 | 0.1229  | 0.6020 | 0.3520  |
| 1476 | 6           | 0           | 0          | -0.0099 | 0.0014  | -0.3917 | 0.0008  | 0.5744 | 0.0050  |
| 1480 | 6           | 0           | 5          | -0.0130 | 0.0384  | -0.3920 | 0.0248  | 0.5804 | 0.0570  |
| 1484 | 6           | 0           | 10         | -0.0161 | 0.0761  | -0.3924 | 0.0457  | 0.6012 | 0.1094  |
| 1488 | 6           | 0           | 15         | -0.0193 | 0.1337  | -0.3916 | 0.0750  | 0.6330 | 0.1938  |
| 1494 | 6           | 10          | 0          | -0.0136 | -0.0578 | -0.3879 | -0.0404 | 0.5728 | -0.0772 |
| 1498 | 6           | 10          | 5          | -0.0133 | -0.0207 | -0.3955 | -0.0186 | 0.5930 | -0.0305 |
| 1502 | 6           | 10          | 10         | -0.0141 | 0.0178  | -0.4013 | 0.0048  | 0.6289 | 0.0125  |
| 1506 | 6           | 10          | 15         | -0.0166 | 0.0576  | -0.4086 | 0.0289  | 0.6682 | 0.0657  |
| 1522 | 6           | 20          | 0          | -0.0163 | -0.1240 | -0.3724 | -0.0811 | 0.5680 | -0.1733 |
| 1525 | 6           | 20          | 5          | -0.0187 | -0.0832 | -0.3887 | -0.0605 | 0.5950 | -0.1208 |
| 1530 | 6           | 20          | 10         | -0.0168 | -0.0374 | -0.4051 | -0.0355 | 0.6391 | -0.0702 |
| 1534 | 6           | 20          | 15         | -0.0140 | -0.0056 | -0.4153 | -0.0133 | 0.6818 | -0.0398 |

\* Indicates model was close to heave stop

TABLE 8.203.1 - NON-DIMENSIONAL STABILITY DATA IN BODY AXES AT TRANSOM

20 deg Deadrise, L/R = 0.000, CV = 3

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X'      | Y'      | Z'      | K'      | M'     | N'      |
|--------|-------------|-------------|------------|---------|---------|---------|---------|--------|---------|
| 1710   | -2          | -10         | 0          | -0.0563 | 0.0307  | -0.0913 | 0.0209  | 0.2648 | 0.0967  |
| 1714 * | -2          | -10         | 5          | -0.0591 | 0.0865  | -0.0816 | 0.0453  | 0.2384 | 0.3452  |
| 1646   | -2          | 0           | 0          | -0.0537 | 0.0019  | -0.0953 | 0.0023  | 0.2668 | 0.0062  |
| 1650 * | -2          | 0           | 5          | -0.0576 | 0.0494  | -0.0954 | 0.0195  | 0.2791 | 0.2136  |
| 1654 * | -2          | 0           | 10         | -0.0656 | 0.1561  | -0.0950 | 0.0613  | 0.3221 | 0.6080  |
| 1721 * | -2          | 0           | 10         | -0.0668 | 0.1794  | -0.0951 | 0.0730  | 0.3212 | 0.6961  |
| 1661   | -2          | 10          | 0          | -0.0527 | -0.0270 | -0.0917 | -0.0153 | 0.2652 | -0.0837 |
| 1665   | -2          | 10          | 5          | -0.0565 | 0.0142  | -0.0992 | -0.0022 | 0.3145 | 0.0943  |
| 1680   | -2          | 10          | 5          | -0.0561 | 0.0150  | -0.0993 | 0.0011  | 0.3152 | 0.1006  |
| 1684 * | -2          | 10          | 10         | -0.0628 | 0.1006  | -0.1142 | 0.0356  | 0.3956 | 0.4069  |
| 1688 * | -2          | 10          | 15         | -0.0744 | 0.2079  | -0.1331 | 0.0955  | 0.4773 | 0.7564  |
| 1693   | -2          | 20          | 0          | -0.0421 | -0.0342 | -0.0894 | -0.0181 | 0.2669 | -0.0945 |
| 1697   | -2          | 20          | 5          | -0.0423 | 0.0021  | -0.1027 | -0.0029 | 0.3390 | 0.0647  |
| 1701 * | -2          | 20          | 10         | -0.0695 | 0.0604  | -0.1230 | 0.0204  | 0.4785 | 0.2388  |
| 1628   | 0           | -10         | 0          | -0.0307 | 0.0196  | -0.0952 | 0.0125  | 0.2838 | 0.0638  |
| 1632   | 0           | -10         | 5          | -0.0377 | 0.0557  | -0.0889 | 0.0275  | 0.2649 | 0.1724  |
| 1636 * | 0           | -10         | 10         | -0.0595 | 0.1773  | -0.0671 | 0.0723  | 0.2448 | 0.5696  |
| 1640 * | 0           | -10         | 15         | -0.0619 | 0.2938  | -0.0470 | 0.1186  | 0.1928 | 0.9610  |
| 1561   | 0           | 0           | 0          | -0.0315 | 0.0010  | -0.0965 | 0.0010  | 0.3122 | 0.0021  |
| 1565   | 0           | 0           | 5          | -0.0357 | 0.0288  | -0.0970 | 0.0161  | 0.3195 | 0.1014  |
| 1569 * | 0           | 0           | 10         | -0.0553 | 0.1216  | -0.0967 | 0.0516  | 0.3509 | 0.3671  |
| 1573 * | 0           | 0           | 15         | -0.0725 | 0.3294  | -0.0973 | 0.1410  | 0.3385 | 1.1044  |
| 1579   | 0           | 10          | 0          | -0.0301 | -0.0185 | -0.0954 | -0.0113 | 0.2833 | -0.0601 |
| 1583   | 0           | 10          | 5          | -0.0327 | 0.0072  | -0.1003 | 0.0042  | 0.3398 | 0.0283  |
| 1588   | 0           | 10          | 10         | -0.0435 | 0.0553  | -0.1085 | 0.0290  | 0.4140 | 0.1817  |
| 1592 * | 0           | 10          | 15         | -0.0862 | 0.2816  | -0.1484 | 0.1327  | 0.5553 | 0.8923  |
| 1608   | 0           | 20          | 0          | -0.0293 | -0.0363 | -0.0900 | -0.0208 | 0.2454 | -0.1078 |
| 1612   | 0           | 20          | 5          | -0.0294 | -0.0130 | -0.0986 | -0.0092 | 0.3188 | -0.0483 |
| 1616   | 0           | 20          | 10         | -0.0292 | 0.0076  | -0.1063 | 0.0035  | 0.3684 | 0.0116  |
| 1620   | 0           | 20          | 15         | -0.0254 | 0.0264  | -0.1132 | 0.0117  | 0.3621 | 0.0531  |
| 1398   | 3           | -10         | 0          | -0.0154 | 0.0153  | -0.0970 | 0.0130  | 0.2114 | 0.0376  |
| 1394   | 3           | -10         | 5          | -0.0192 | 0.0380  | -0.0930 | 0.0254  | 0.2104 | 0.0787  |
| 1391   | 3           | -10         | 10         | -0.0268 | 0.0889  | -0.0848 | 0.0484  | 0.2305 | 0.1843  |
| 1400   | 3           | -10         | 13         | -0.0362 | 0.1620  | -0.0723 | 0.0800  | 0.2498 | 0.3674  |
| 1388   | 3           | -10         | 15         | -0.0452 | 0.2472  | -0.0576 | 0.1144  | 0.2411 | 0.6099  |
| 1406   | 3           | 0           | 0          | -0.0136 | 0.0012  | -0.0980 | 0.0010  | 0.2068 | 0.0035  |
| 1410   | 3           | 0           | 5          | -0.0158 | 0.0178  | -0.0982 | 0.0124  | 0.2120 | 0.0377  |
| 1414   | 3           | 0           | 10         | -0.0203 | 0.0463  | -0.0986 | 0.0306  | 0.2335 | 0.0933  |
| 1418   | 3           | 0           | 15         | -0.0309 | 0.1259  | -0.0989 | 0.0701  | 0.2989 | 0.2695  |

\* Indicates model was close to heave stop

TABLE 8.203.2 - NON-DIMENSIONAL STABILITY DATA IN BODY AXES AT TRANSOM

20 deg Deadrise, L/R = 0.000, Cv = 3

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X'      | Y'      | Z'      | K'      | M'     | N'      |
|------|-------------|-------------|------------|---------|---------|---------|---------|--------|---------|
| 1437 | 3           | 10          | 0          | -0.0151 | -0.0126 | -0.0972 | -0.0115 | 0.2099 | -0.0324 |
| 1442 | 3           | 10          | 5          | -0.0133 | 0.0013  | -0.0993 | -0.0007 | 0.2033 | -0.0026 |
| 1446 | 3           | 10          | 10         | -0.0135 | 0.0171  | -0.1028 | 0.0110  | 0.2021 | 0.0273  |
| 1450 | 3           | 10          | 15         | -0.0135 | 0.0375  | -0.1062 | 0.0261  | 0.2053 | 0.0623  |
| 1458 | 3           | 20          | 0          | -0.0168 | -0.0300 | -0.0934 | -0.0226 | 0.2074 | -0.0631 |
| 1462 | 3           | 20          | 5          | -0.0142 | -0.0117 | -0.1004 | -0.0117 | 0.2138 | -0.0359 |
| 1466 | 3           | 20          | 10         | -0.0114 | -0.0009 | -0.1039 | -0.0046 | 0.1861 | -0.0158 |
| 1470 | 3           | 20          | 15         | -0.0093 | 0.0082  | -0.1073 | 0.0010  | 0.1598 | -0.0018 |
| 1542 | 6           | -10         | 0          | -0.0069 | 0.0110  | -0.0980 | 0.0096  | 0.1330 | 0.0208  |
| 1546 | 6           | -10         | 5          | -0.0096 | 0.0271  | -0.0956 | 0.0202  | 0.1491 | 0.0387  |
| 1550 | 6           | -10         | 10         | -0.0128 | 0.0601  | -0.0901 | 0.0385  | 0.1604 | 0.0786  |
| 1554 | 6           | -10         | 15         | -0.0175 | 0.1236  | -0.0794 | 0.0687  | 0.1816 | 0.1695  |
| 1477 | 6           | 0           | 0          | -0.0060 | 0.0007  | -0.0983 | 0.0009  | 0.1210 | 0.0027  |
| 1481 | 6           | 0           | 5          | -0.0074 | 0.0114  | -0.0987 | 0.0093  | 0.1254 | 0.0152  |
| 1485 | 6           | 0           | 10         | -0.0083 | 0.0253  | -0.0985 | 0.0196  | 0.1323 | 0.0308  |
| 1489 | 6           | 0           | 15         | -0.0105 | 0.0496  | -0.0989 | 0.0351  | 0.1493 | 0.0578  |
| 1495 | 6           | 10          | 0          | -0.0069 | -0.0092 | -0.0982 | -0.0081 | 0.1302 | -0.0147 |
| 1499 | 6           | 10          | 5          | -0.0058 | 0.0004  | -0.0999 | -0.0008 | 0.1149 | -0.0033 |
| 1503 | 6           | 10          | 10         | -0.0055 | 0.0095  | -0.1012 | 0.0063  | 0.1013 | 0.0047  |
| 1507 | 6           | 10          | 15         | -0.0057 | 0.0196  | -0.1035 | 0.0136  | 0.0929 | 0.0129  |
| 1523 | 6           | 20          | 0          | -0.0110 | -0.0208 | -0.0976 | -0.0175 | 0.1515 | -0.0341 |
| 1527 | 6           | 20          | 5          | -0.0084 | -0.0119 | -0.1007 | -0.0099 | 0.1278 | -0.0219 |
| 1531 | 6           | 20          | 10         | -0.0057 | -0.0068 | -0.1022 | -0.0073 | 0.1070 | -0.0146 |
| 1535 | 6           | 20          | 15         | -0.0039 | -0.0020 | -0.1036 | -0.0049 | 0.0918 | -0.0083 |

\* Indicates model was close to heave stop



TABLE 8.204.1 - NON-DIMENSIONAL STABILITY DATA IN BODY AXES AT TRANSON

20 deg Deadrise, L/R = 0.000, Cv = 4

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X'      | Y'      | Z'      | K'      | M'     | N'      |
|--------|-------------|-------------|------------|---------|---------|---------|---------|--------|---------|
| 1711 * | -2          | -10         | 0          | -0.0551 | 0.0281  | -0.0484 | 0.0186  | 0.1448 | 0.0981  |
| 1647 * | -2          | 0           | 0          | -0.0566 | 0.0026  | -0.0527 | 0.0013  | 0.1502 | 0.0084  |
| 1651 * | -2          | 0           | 5          | -0.0581 | 0.0594  | -0.0525 | 0.0240  | 0.1641 | 0.2730  |
| 1662 * | -2          | 10          | 0          | -0.0568 | -0.0240 | -0.0493 | -0.0149 | 0.1504 | -0.0949 |
| 1666 * | -2          | 10          | 5          | -0.0561 | 0.0332  | -0.0593 | 0.0095  | 0.2124 | 0.1577  |
| 1694 * | -2          | 20          | 0          | -0.0617 | -0.0434 | -0.0402 | -0.0234 | 0.1465 | -0.1865 |
| 1698 * | -2          | 20          | 5          | -0.0611 | -0.0001 | -0.0559 | -0.0023 | 0.2379 | 0.0074  |
| 1629   | 0           | -10         | 0          | -0.0291 | 0.0121  | -0.0535 | 0.0056  | 0.2087 | 0.0521  |
| 1633   | 0           | -10         | 5          | -0.0442 | 0.0497  | -0.0470 | 0.0211  | 0.1880 | 0.1640  |
| 1637 * | 0           | -10         | 10         | -0.0541 | 0.1594  | -0.0273 | 0.0641  | 0.1355 | 0.5474  |
| 1562   | 0           | 0           | 0          | -0.0267 | 0.0009  | -0.0545 | 0.0005  | 0.2184 | 0.0026  |
| 1566   | 0           | 0           | 5          | -0.0341 | 0.0270  | -0.0546 | 0.0140  | 0.2305 | 0.0990  |
| 1570 * | 0           | 0           | 10         | -0.0635 | 0.1841  | -0.0545 | 0.0790  | 0.2095 | 0.6707  |
| 1574 * | 0           | 0           | 15         | -0.0697 | 0.2763  | -0.0545 | 0.0922  | 0.2350 | 0.9313  |
| 1580   | 0           | 10          | 0          | -0.0287 | -0.0098 | -0.0539 | -0.0039 | 0.2073 | -0.0454 |
| 1584   | 0           | 10          | 5          | -0.0271 | 0.0070  | -0.0567 | 0.0047  | 0.2312 | 0.0194  |
| 1589   | 0           | 10          | 10         | -0.0279 | 0.0323  | -0.0612 | 0.0200  | 0.2478 | 0.0996  |
| 1593 * | 0           | 10          | 15         | -0.0688 | 0.1817  | -0.0876 | 0.0915  | 0.4116 | 0.5361  |
| 1609   | 0           | 20          | 0          | -0.0308 | -0.0202 | -0.0507 | -0.0099 | 0.1743 | -0.0767 |
| 1613   | 0           | 20          | 5          | -0.0255 | -0.0076 | -0.0555 | -0.0039 | 0.2217 | -0.0389 |
| 1617   | 0           | 20          | 10         | -0.0204 | 0.0043  | -0.0597 | -0.0003 | 0.2052 | -0.0049 |
| 1621   | 0           | 20          | 15         | -0.0171 | 0.0136  | -0.0630 | 0.0005  | 0.1854 | 0.0152  |
| 1399   | 3           | -10         | 0          | -0.0113 | 0.0083  | -0.0546 | 0.0067  | 0.1184 | 0.0212  |
| 1395   | 3           | -10         | 5          | -0.0161 | 0.0258  | -0.0518 | 0.0178  | 0.1325 | 0.0523  |
| 1385   | 3           | -10         | 10         | -0.0250 | 0.0742  | -0.0439 | 0.0406  | 0.1557 | 0.1541  |
| 1386   | 3           | -10         | 13         | -0.0361 | 0.1643  | -0.0285 | 0.0797  | 0.1793 | 0.3825  |
| 1384 * | 3           | -10         | 15         | -0.0443 | 0.2478  | -0.0142 | 0.1117  | 0.1577 | 0.6347  |
| 1407   | 3           | 0           | 0          | -0.0114 | 0.0010  | -0.0554 | 0.0006  | 0.1083 | 0.0026  |
| 1411   | 3           | 0           | 5          | -0.0122 | 0.0120  | -0.0554 | 0.0087  | 0.1148 | 0.0231  |
| 1415   | 3           | 0           | 10         | -0.0152 | 0.0317  | -0.0556 | 0.0224  | 0.1335 | 0.0591  |
| 1419   | 3           | 0           | 15         | -0.0275 | 0.1077  | -0.0560 | 0.0627  | 0.2060 | 0.2246  |

\* Indicates model was close to heave stop

TABLE 8.204.2 - NON-DIMENSIONAL STABILITY DATA IN BODY AXES AT TRANSOM

20 deg Deadrise, L/R = 0.000, Cv = 4

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X'      | Y'      | Z'      | K'      | M'     | N'      |
|------|-------------|-------------|------------|---------|---------|---------|---------|--------|---------|
| 1438 | 3           | 10          | 0          | -0.0118 | -0.0069 | -0.0549 | -0.0062 | 0.1152 | -0.0172 |
| 1443 | 3           | 10          | 5          | -0.0102 | 0.0028  | -0.0569 | 0.0010  | 0.0969 | 0.0005  |
| 1447 | 3           | 10          | 10         | -0.0092 | 0.0130  | -0.0581 | 0.0083  | 0.0834 | 0.0141  |
| 1451 | 3           | 10          | 15         | -0.0086 | 0.0245  | -0.0604 | 0.0160  | 0.0771 | 0.0270  |
| 1459 | 3           | 20          | 0          | -0.0131 | -0.0143 | -0.0538 | -0.0124 | 0.1319 | -0.0360 |
| 1463 | 3           | 20          | 5          | -0.0105 | -0.0062 | -0.0567 | -0.0066 | 0.1041 | -0.0167 |
| 1467 | 3           | 20          | 10         | -0.0079 | -0.0023 | -0.0579 | -0.0045 | 0.0813 | -0.0094 |
| 1471 | 3           | 20          | 15         | -0.0059 | 0.0018  | -0.0593 | -0.0029 | 0.0670 | -0.0034 |
| 1543 | 6           | -10         | 0          | -0.0041 | 0.0090  | -0.0547 | 0.0074  | 0.0518 | 0.0111  |
| 1547 | 6           | -10         | 5          | -0.0055 | 0.0151  | -0.0538 | 0.0123  | 0.0655 | 0.0184  |
| 1551 | 6           | -10         | 10         | -0.0085 | 0.0326  | -0.0506 | 0.0231  | 0.0774 | 0.0342  |
| 1555 | 6           | -10         | 15         | -0.0118 | 0.0730  | -0.0441 | 0.0434  | 0.0990 | 0.0809  |
| 1478 | 6           | 0           | 0          | -0.0035 | 0.0008  | -0.0552 | 0.0005  | 0.0408 | 0.0027  |
| 1482 | 6           | 0           | 5          | -0.0039 | 0.0082  | -0.0555 | 0.0064  | 0.0422 | 0.0067  |
| 1486 | 6           | 0           | 10         | -0.0044 | 0.0158  | -0.0556 | 0.0123  | 0.0435 | 0.0118  |
| 1490 | 6           | 0           | 15         | -0.0050 | 0.0240  | -0.0555 | 0.0190  | 0.0467 | 0.0179  |
| 1496 | 6           | 10          | 0          | -0.0037 | -0.0076 | -0.0549 | -0.0073 | 0.0502 | -0.0068 |
| 1500 | 6           | 10          | 5          | -0.0035 | -0.0019 | -0.0558 | -0.0033 | 0.0445 | -0.0023 |
| 1504 | 6           | 10          | 10         | -0.0036 | 0.0038  | -0.0567 | 0.0006  | 0.0409 | 0.0015  |
| 1508 | 6           | 10          | 15         | -0.0038 | 0.0103  | -0.0580 | 0.0047  | 0.0378 | 0.0059  |
| 1524 | 6           | 20          | 0          | -0.0072 | -0.0123 | -0.0549 | -0.0112 | 0.0684 | -0.0162 |
| 1528 | 6           | 20          | 5          | -0.0043 | -0.0110 | -0.0550 | -0.0098 | 0.0505 | -0.0111 |
| 1532 | 6           | 20          | 10         | -0.0029 | -0.0084 | -0.0556 | -0.0084 | 0.0417 | -0.0076 |
| 1536 | 6           | 20          | 15         | -0.0024 | -0.0064 | -0.0565 | -0.0072 | 0.0364 | -0.0047 |

\* Indicates model was close to heave stop

TABLE 8.211.1 - NON-DIMENSIONAL STABILITY DATA IN BODY AXES AT TRANSOM

20 deg Deadrise, L/R = 0.117, Cv = 1.5

| RUN   | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X'      | Y'      | Z'      | K'      | M'     | N'      |
|-------|-------------|-------------|------------|---------|---------|---------|---------|--------|---------|
| 586   | 0           | -10         | -10        | -0.0540 | 0.0155  | -0.3865 | 0.0446  | 1.0504 | -0.0803 |
| 581   | 0           | -10         | -5         | -0.0453 | 0.0546  | -0.3796 | 0.0553  | 0.9915 | 0.0798  |
| 570   | 0           | -10         | 0          | -0.0402 | 0.0807  | -0.3729 | 0.0642  | 0.9607 | 0.1928  |
| 573   | 0           | -10         | 5          | -0.0450 | 0.1038  | -0.3688 | 0.0641  | 0.9559 | 0.2938  |
| 578   | 0           | -10         | 10         | -0.0547 | 0.1580  | -0.3624 | 0.0706  | 0.9759 | 0.4823  |
| 469 * | 0           | 0           | -15        | -0.0692 | -0.1748 | -0.3896 | -0.0534 | 1.1016 | -0.6943 |
| 465   | 0           | 0           | -10        | -0.0535 | -0.0608 | -0.3875 | -0.0028 | 1.0297 | -0.2880 |
| 460   | 0           | 0           | -5         | -0.0451 | -0.0152 | -0.3875 | 0.0049  | 0.9916 | -0.1056 |
| 443   | 0           | 0           | 0          | -0.0427 | 0.0005  | -0.3885 | 0.0009  | 0.9994 | -0.0182 |
| 447   | 0           | 0           | 5          | -0.0422 | 0.0240  | -0.3885 | 0.0107  | 1.0037 | 0.0791  |
| 451   | 0           | 0           | 10         | -0.0496 | 0.0647  | -0.3875 | 0.0234  | 1.0426 | 0.2257  |
| 455 * | 0           | 0           | 15         | -0.0655 | 0.1641  | -0.3885 | 0.0616  | 1.1158 | 0.5438  |
| 535   | 0           | 10          | -10        | -0.0547 | -0.1452 | -0.3636 | -0.0615 | 0.9269 | -0.5197 |
| 531   | 0           | 10          | -5         | -0.0446 | -0.0919 | -0.3720 | -0.0522 | 0.9382 | -0.3092 |
| 472   | 0           | 10          | 0          | -0.0415 | -0.0634 | -0.3823 | -0.0429 | 0.9628 | -0.1873 |
| 518   | 0           | 10          | 0          | -0.0404 | -0.0690 | -0.3834 | -0.0520 | 0.9700 | -0.2020 |
| 476   | 0           | 10          | 5          | -0.0408 | -0.0383 | -0.3652 | -0.0322 | 0.9415 | -0.0810 |
| 523   | 0           | 10          | 5          | -0.0388 | -0.0446 | -0.3803 | -0.0367 | 0.9765 | -0.1014 |
| 526   | 0           | 10          | 10         | -0.0459 | -0.0116 | -0.3872 | -0.0249 | 1.0364 | 0.0154  |
| 561   | 0           | 20          | -10        | -0.0599 | -0.2088 | -0.3286 | -0.0907 | 0.8079 | -0.6715 |
| 556   | 0           | 20          | -5         | -0.0471 | -0.1596 | -0.3633 | -0.0856 | 0.8904 | -0.4698 |
| 539   | 0           | 20          | 0          | -0.0417 | -0.1278 | -0.3614 | -0.0826 | 0.9030 | -0.3511 |
| 544   | 0           | 20          | 5          | -0.0388 | -0.1056 | -0.3717 | -0.0726 | 0.9476 | -0.2673 |
| 549   | 0           | 20          | 10         | -0.0450 | -0.0695 | -0.3859 | -0.0595 | 1.0426 | -0.1476 |
| 251   | 3           | -10         | -15        | -0.0279 | -0.0377 | -0.4086 | -0.0120 | 0.9139 | -0.1329 |
| 246   | 3           | -10         | -10        | -0.0249 | 0.0173  | -0.3966 | 0.0226  | 0.8161 | -0.0026 |
| 242   | 3           | -10         | -5         | -0.0214 | 0.0593  | -0.3922 | 0.0497  | 0.7709 | 0.0944  |
| 238   | 3           | -10         | 0          | -0.0192 | 0.0927  | -0.3851 | 0.0688  | 0.7447 | 0.1764  |
| 234   | 3           | -10         | 5          | -0.0238 | 0.1229  | -0.3834 | 0.0815  | 0.7610 | 0.2518  |
| 230   | 3           | -10         | 10         | -0.0320 | 0.1654  | -0.3741 | 0.0827  | 0.7856 | 0.3501  |
| 226   | 3           | -10         | 15         | -0.0418 | 0.2713  | -0.3527 | 0.1114  | 0.8230 | 0.5908  |
| 108   | 3           | 0           | -15        | -0.0350 | -0.1343 | -0.3951 | -0.0731 | 0.8421 | -0.3683 |
| 110   | 3           | 0           | -15        | -0.0345 | -0.1319 | -0.4038 | -0.0683 | 0.8567 | -0.3623 |
| 105   | 3           | 0           | -10        | -0.0270 | -0.0535 | -0.3947 | -0.0340 | 0.7776 | -0.1582 |
| 101   | 3           | 0           | -5         | -0.0227 | -0.0162 | -0.3945 | -0.0146 | 0.7578 | -0.0605 |
| 97    | 3           | 0           | 0          | -0.0207 | 0.0089  | -0.3987 | 0.0013  | 0.7625 | 0.0047  |
| 91    | 3           | 0           | 5          | -0.0218 | 0.0396  | -0.4088 | 0.0213  | 0.7895 | 0.0775  |
| 92    | 3           | 0           | 5          | -0.0218 | 0.0377  | -0.3945 | 0.0184  | 0.7650 | 0.0739  |
| 88    | 3           | 0           | 10         | -0.0267 | 0.0795  | -0.3947 | 0.0389  | 0.7993 | 0.1673  |
| 86    | 3           | 0           | 15         | -0.0356 | 0.1660  | -0.3962 | 0.0743  | 0.8721 | 0.3568  |

\* Indicates model was close to heave stop

TABLE 8.211.2 - NON-DIMENSIONAL STABILITY DATA IN BODY AXES AT TRANSON

20 deg Deadrise, L/R = 0.117, Cv = 1.5

| RUN | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X'      | Y'      | Z'      | K'      | M'     | N'      |
|-----|-------------|-------------|------------|---------|---------|---------|---------|--------|---------|
| 114 | 3           | 10          | -15        | -0.0411 | -0.2221 | -0.3668 | -0.1189 | 0.7708 | -0.5674 |
| 160 | 3           | 10          | -10        | -0.0316 | -0.1257 | -0.3767 | -0.0787 | 0.7442 | -0.2979 |
| 164 | 3           | 10          | -5         | -0.0264 | -0.0868 | -0.3844 | -0.0648 | 0.7349 | -0.1957 |
| 168 | 3           | 10          | 0          | -0.0228 | -0.0545 | -0.3899 | -0.0432 | 0.7453 | -0.1116 |
| 172 | 3           | 10          | 5          | -0.0215 | -0.0319 | -0.3960 | -0.0340 | 0.7615 | -0.0647 |
| 188 | 3           | 10          | 10         | -0.0222 | 0.0072  | -0.4007 | -0.0062 | 0.8148 | 0.0129  |
| 192 | 3           | 10          | 15         | -0.0285 | 0.0727  | -0.4126 | 0.0333  | 0.9112 | 0.1530  |
| 220 | 3           | 20          | -15        | -0.0350 | -0.2673 | -0.3221 | -0.1272 | 0.6582 | -0.6390 |
| 216 | 3           | 20          | -10        | -0.0282 | -0.1853 | -0.3504 | -0.0989 | 0.6841 | -0.4123 |
| 212 | 3           | 20          | -5         | -0.0230 | -0.1485 | -0.3658 | -0.0893 | 0.6990 | -0.3097 |
| 204 | 3           | 20          | 5          | -0.0183 | -0.0973 | -0.3819 | -0.0664 | 0.7386 | -0.1931 |
| 208 | 3           | 20          | 5          | -0.0169 | -0.1238 | -0.3721 | -0.0795 | 0.7050 | -0.2485 |
| 200 | 3           | 20          | 10         | -0.0217 | -0.0590 | -0.3960 | -0.0401 | 0.8037 | -0.1232 |
| 196 | 3           | 20          | 15         | -0.0278 | -0.0093 | -0.4156 | -0.0116 | 0.9115 | -0.0323 |
| 420 | 6           | -10         | -15        | -0.0082 | -0.0292 | -0.4038 | -0.0111 | 0.6620 | -0.0341 |
| 416 | 6           | -10         | -10        | -0.0076 | 0.0059  | -0.3954 | 0.0103  | 0.6228 | 0.0164  |
| 412 | 6           | -10         | -5         | -0.0057 | 0.0408  | -0.3890 | 0.0275  | 0.5955 | 0.0538  |
| 409 | 6           | -10         | -5         | -0.0060 | 0.0430  | -0.3834 | 0.0294  | 0.5883 | 0.0607  |
| 394 | 6           | -10         | 0          | -0.0076 | 0.0798  | -0.3845 | 0.0511  | 0.5865 | 0.1104  |
| 398 | 6           | -10         | 5          | -0.0104 | 0.1185  | -0.3758 | 0.0710  | 0.5866 | 0.1675  |
| 402 | 6           | -10         | 10         | -0.0135 | 0.1727  | -0.3677 | 0.0940  | 0.6046 | 0.2482  |
| 406 | 6           | -10         | 15         | -0.0178 | 0.2584  | -0.3530 | 0.1266  | 0.6346 | 0.3789  |
| 296 | 6           | 0           | -15        | -0.0106 | -0.0956 | -0.3950 | -0.0526 | 0.6290 | -0.1495 |
| 292 | 6           | 0           | -10        | -0.0100 | -0.0504 | -0.3960 | -0.0296 | 0.6025 | -0.0798 |
| 288 | 6           | 0           | -5         | -0.0084 | -0.0120 | -0.3937 | -0.0050 | 0.5809 | -0.0169 |
| 268 | 6           | 0           | 0          | -0.0042 | 0.0164  | -0.3943 | 0.0076  | 0.5767 | 0.0158  |
| 274 | 6           | 0           | 5          | -0.0097 | 0.0517  | -0.3970 | 0.0290  | 0.5974 | 0.0665  |
| 278 | 6           | 0           | 10         | -0.0093 | 0.0947  | -0.3938 | 0.0549  | 0.6200 | 0.1319  |
| 284 | 6           | 0           | 15         | -0.0153 | 0.1613  | -0.3955 | 0.0841  | 0.6665 | 0.2260  |
| 300 | 6           | 10          | -15        | -0.0146 | -0.1783 | -0.3690 | -0.0989 | 0.5973 | -0.2835 |
| 305 | 6           | 10          | -10        | -0.0110 | -0.1171 | -0.3816 | -0.0729 | 0.5818 | -0.1819 |
| 309 | 6           | 10          | -5         | -0.0105 | -0.0810 | -0.3879 | -0.0575 | 0.5754 | -0.1269 |
| 325 | 6           | 10          | 0          | -0.0073 | -0.0420 | -0.3933 | -0.0315 | 0.5755 | -0.0644 |
| 329 | 6           | 10          | 5          | -0.0064 | -0.0027 | -0.4068 | -0.0093 | 0.6082 | -0.0151 |
| 333 | 6           | 10          | 10         | -0.0076 | 0.0363  | -0.4060 | 0.0168  | 0.6342 | 0.0366  |
| 337 | 6           | 10          | 15         | -0.0095 | 0.0801  | -0.4140 | 0.0400  | 0.6817 | 0.0916  |
| 365 | 6           | 20          | -15        | -0.0180 | -0.2777 | -0.3212 | -0.1457 | 0.5281 | -0.4502 |
| 361 | 6           | 20          | -10        | -0.0151 | -0.1968 | -0.3503 | -0.1159 | 0.5431 | -0.3056 |
| 357 | 6           | 20          | -5         | -0.0135 | -0.1486 | -0.3666 | -0.0976 | 0.5530 | -0.2238 |
| 341 | 6           | 20          | 0          | -0.0130 | -0.1059 | -0.3809 | -0.0774 | 0.5743 | -0.1621 |
| 345 | 6           | 20          | 5          | -0.0116 | -0.0657 | -0.3965 | -0.0567 | 0.6010 | -0.1092 |
| 349 | 6           | 20          | 10         | -0.0103 | -0.0204 | -0.4129 | -0.0284 | 0.6510 | -0.0582 |
| 353 | 6           | 20          | 15         | -0.0094 | 0.0063  | -0.4259 | -0.0119 | 0.6890 | -0.0261 |

\* Indicates model was close to heave stop

TABLE 8.213.1 - NON-DIMENSIONAL STABILITY DATA IN BODY AXES AT TRANSOM

20 deg Deadrise, L/R = 0.117, Cv = 3

| RUN   | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X'      | Y'      | Z'      | K'      | M'     | N'      |
|-------|-------------|-------------|------------|---------|---------|---------|---------|--------|---------|
| 587   | 0           | -10         | -10        | -0.0437 | -0.0486 | -0.1071 | -0.0142 | 0.4072 | -0.2051 |
| 583   | 0           | -10         | -5         | -0.0327 | -0.0049 | -0.0995 | 0.0041  | 0.3352 | -0.0418 |
| 571   | 0           | -10         | 0          | -0.0299 | 0.0208  | -0.0954 | 0.0146  | 0.2862 | 0.0485  |
| 575   | 0           | -10         | 5          | -0.0378 | 0.0580  | -0.0884 | 0.0258  | 0.2857 | 0.1554  |
| 579 * | 0           | -10         | 10         | -0.0501 | 0.1403  | -0.0739 | 0.0509  | 0.2875 | 0.3943  |
| 466 * | 0           | 0           | -10        | -0.0511 | -0.0989 | -0.0971 | -0.0309 | 0.3266 | -0.3665 |
| 461   | 0           | 0           | -5         | -0.0343 | -0.0255 | -0.0967 | -0.0086 | 0.3083 | -0.1189 |
| 444   | 0           | 0           | 0          | -0.0299 | 0.0004  | -0.0962 | 0.0018  | 0.3057 | -0.0173 |
| 448   | 0           | 0           | 5          | -0.0342 | 0.0257  | -0.0962 | 0.0124  | 0.3222 | 0.0709  |
| 452 * | 0           | 0           | 10         | -0.0483 | 0.1015  | -0.0962 | 0.0409  | 0.3735 | 0.2546  |
| 456 * | 0           | 0           | 15         | -0.0520 | 0.1916  | -0.0967 | 0.0831  | 0.4024 | 0.5031  |
| 536   | 0           | 10          | -10        | -0.0475 | -0.1246 | -0.0771 | -0.0466 | 0.2140 | -0.4561 |
| 532   | 0           | 10          | -5         | -0.0342 | -0.0486 | -0.0906 | -0.0216 | 0.2470 | -0.1806 |
| 473   | 0           | 10          | 0          | -0.0301 | -0.0227 | -0.0942 | -0.0177 | 0.2764 | -0.0923 |
| 478   | 0           | 10          | 5          | -0.0318 | 0.0062  | -0.1011 | 0.0041  | 0.3332 | 0.0072  |
| 527   | 0           | 10          | 10         | -0.0394 | 0.0489  | -0.1077 | 0.0243  | 0.3982 | 0.1308  |
| 528   | 0           | 10          | 10         | -0.0396 | 0.0487  | -0.1076 | 0.0239  | 0.3989 | 0.1298  |
| 562 * | 0           | 20          | -10        | -0.0571 | -0.1383 | -0.0533 | -0.0454 | 0.2623 | -0.5101 |
| 567   | 0           | 20          | -8         | -0.0422 | -0.1078 | -0.0641 | -0.0385 | 0.1809 | -0.3762 |
| 557   | 0           | 20          | -5         | -0.0341 | -0.0653 | -0.0814 | -0.0286 | 0.2164 | -0.2146 |
| 558   | 0           | 20          | -5         | -0.0341 | -0.0662 | -0.0797 | -0.0304 | 0.2121 | -0.2178 |
| 540   | 0           | 20          | 0          | -0.0287 | -0.0343 | -0.0914 | -0.0183 | 0.2454 | -0.1130 |
| 546   | 0           | 20          | 5          | -0.0282 | -0.0124 | -0.0997 | -0.0078 | 0.3071 | -0.0566 |
| 550   | 0           | 20          | 10         | -0.0281 | 0.0110  | -0.1082 | 0.0054  | 0.3510 | 0.0078  |
| 252   | 3           | -10         | -15        | -0.0110 | -0.0267 | -0.1041 | -0.0163 | 0.2067 | -0.0507 |
| 247   | 3           | -10         | -10        | -0.0125 | -0.0088 | -0.1010 | -0.0035 | 0.2136 | -0.0172 |
| 243   | 3           | -10         | -5         | -0.0129 | 0.0066  | -0.0986 | 0.0077  | 0.2203 | 0.0153  |
| 239   | 3           | -10         | 0          | -0.0148 | 0.0258  | -0.0950 | 0.0193  | 0.2136 | 0.0524  |
| 235   | 3           | -10         | 5          | -0.0195 | 0.0530  | -0.0905 | 0.0320  | 0.2178 | 0.1034  |
| 231   | 3           | -10         | 10         | -0.0284 | 0.1192  | -0.0795 | 0.0591  | 0.2426 | 0.2381  |
| 227 * | 3           | -10         | 15         | -0.0438 | 0.2808  | -0.0517 | 0.1168  | 0.2744 | 0.6437  |
| 111   | 3           | 0           | -15        | -0.0265 | -0.0964 | -0.0987 | -0.0532 | 0.2822 | -0.2401 |
| 106   | 3           | 0           | -10        | -0.0176 | -0.0307 | -0.0977 | -0.0204 | 0.2231 | -0.0794 |
| 102   | 3           | 0           | -5         | -0.0149 | -0.0084 | -0.0975 | -0.0062 | 0.2086 | -0.0268 |
| 98    | 3           | 0           | 0          | -0.0125 | 0.0075  | -0.0974 | 0.0049  | 0.2044 | 0.0105  |
| 94    | 3           | 0           | 5          | -0.0156 | 0.0299  | -0.0976 | 0.0192  | 0.2171 | 0.0559  |
| 89    | 3           | 0           | 10         | -0.0214 | 0.0669  | -0.0979 | 0.0401  | 0.2518 | 0.1284  |
| 85    | 3           | 0           | 15         | -0.0340 | 0.1670  | -0.0985 | 0.0835  | 0.3296 | 0.3384  |

\* Indicates model was close to heave stop

TABLE 8.213.2 - NON-DIMENSIONAL STABILITY DATA IN BODY AXES AT TRANSOM

20 deg Deadrise, L/R = 0.117, Cv = 3

| RUN | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X'      | Y'      | Z'      | K'      | M'     | N'      |
|-----|-------------|-------------|------------|---------|---------|---------|---------|--------|---------|
| 115 | 3           | 10          | -15        | -0.0380 | -0.1895 | -0.0674 | -0.0878 | 0.2445 | -0.4936 |
| 155 | 3           | 10          | -15        | -0.0368 | -0.1766 | -0.0705 | -0.0874 | 0.2491 | -0.4500 |
| 156 | 3           | 10          | -15        | -0.0364 | -0.1758 | -0.0693 | -0.0834 | 0.2453 | -0.4497 |
| 161 | 3           | 10          | -10        | -0.0222 | -0.0607 | -0.0883 | -0.0360 | 0.2165 | -0.1415 |
| 165 | 3           | 10          | -5         | -0.0161 | -0.0246 | -0.0943 | -0.0191 | 0.2031 | -0.0607 |
| 169 | 3           | 10          | 0          | -0.0137 | -0.0066 | -0.0974 | -0.0068 | 0.2025 | -0.0227 |
| 173 | 3           | 10          | 5          | -0.0114 | 0.0081  | -0.0999 | 0.0046  | 0.1977 | 0.0097  |
| 189 | 3           | 10          | 10         | -0.0114 | 0.0249  | -0.1034 | 0.0163  | 0.1987 | 0.0394  |
| 193 | 3           | 10          | 15         | -0.0120 | 0.0473  | -0.1072 | 0.0318  | 0.2101 | 0.0765  |
| 221 | 3           | 20          | -15        | -0.0323 | -0.1701 | -0.0434 | -0.0789 | 0.1501 | -0.4341 |
| 217 | 3           | 20          | -10        | -0.0219 | -0.0770 | -0.0768 | -0.0411 | 0.1926 | -0.1778 |
| 213 | 3           | 20          | -5         | -0.0159 | -0.0393 | -0.0901 | -0.0244 | 0.1939 | -0.0890 |
| 209 | 3           | 20          | 0          | -0.0136 | -0.0231 | -0.0959 | -0.0156 | 0.1981 | -0.0584 |
| 205 | 3           | 20          | 5          | -0.0113 | -0.0085 | -0.1009 | -0.0044 | 0.1943 | -0.0251 |
| 201 | 3           | 20          | 10         | -0.0106 | 0.0073  | -0.1066 | 0.0068  | 0.1914 | 0.0044  |
| 197 | 3           | 20          | 15         | -0.0097 | 0.0247  | -0.1130 | 0.0194  | 0.1859 | 0.0317  |
| 421 | 6           | -10         | -15        | -0.0029 | -0.0119 | -0.1005 | -0.0085 | 0.1011 | -0.0063 |
| 417 | 6           | -10         | -10        | -0.0029 | -0.0024 | -0.0988 | -0.0014 | 0.1098 | 0.0034  |
| 413 | 6           | -10         | -5         | -0.0027 | 0.0065  | -0.0975 | 0.0047  | 0.1256 | 0.0129  |
| 395 | 6           | -10         | 0          | -0.0062 | 0.0176  | -0.0958 | 0.0136  | 0.1467 | 0.0298  |
| 399 | 6           | -10         | 5          | -0.0091 | 0.0441  | -0.0917 | 0.0286  | 0.1544 | 0.0572  |
| 403 | 6           | -10         | 10         | -0.0125 | 0.0865  | -0.0847 | 0.0487  | 0.1709 | 0.1124  |
| 407 | 6           | -10         | 15         | -0.0164 | 0.1621  | -0.0714 | 0.0815  | 0.1998 | 0.2286  |
| 297 | 6           | 0           | -15        | -0.0063 | -0.0297 | -0.0983 | -0.0225 | 0.1370 | -0.0372 |
| 293 | 6           | 0           | -10        | -0.0048 | -0.0148 | -0.0982 | -0.0117 | 0.1265 | -0.0175 |
| 289 | 6           | 0           | -5         | -0.0031 | -0.0040 | -0.0983 | -0.0038 | 0.1229 | -0.0048 |
| 269 | 6           | 0           | 0          | -0.0035 | 0.0078  | -0.0983 | 0.0059  | 0.1236 | 0.0112  |
| 275 | 6           | 0           | 5          | -0.0047 | 0.0192  | -0.0987 | 0.0148  | 0.1304 | 0.0254  |
| 279 | 6           | 0           | 10         | -0.0074 | 0.0383  | -0.0988 | 0.0268  | 0.1413 | 0.0457  |
| 280 | 6           | 0           | 10         | -0.0072 | 0.0376  | -0.0990 | 0.0261  | 0.1418 | 0.0441  |
| 285 | 6           | 0           | 15         | -0.0101 | 0.0735  | -0.0990 | 0.0464  | 0.1682 | 0.0866  |
| 302 | 6           | 10          | -15        | -0.0114 | -0.0736 | -0.0877 | -0.0443 | 0.1670 | -0.1057 |
| 306 | 6           | 10          | -10        | -0.0093 | -0.0340 | -0.0942 | -0.0246 | 0.1506 | -0.0499 |
| 310 | 6           | 10          | -5         | -0.0061 | -0.0144 | -0.0973 | -0.0120 | 0.1377 | -0.0234 |
| 326 | 6           | 10          | 0          | -0.0031 | -0.0040 | -0.0992 | -0.0049 | 0.1187 | -0.0094 |
| 330 | 6           | 10          | 5          | -0.0022 | 0.0061  | -0.1014 | 0.0028  | 0.1045 | 0.0006  |
| 334 | 6           | 10          | 10         | -0.0021 | 0.0160  | -0.1032 | 0.0100  | 0.0940 | 0.0100  |
| 338 | 6           | 10          | 15         | -0.0024 | 0.0257  | -0.1045 | 0.0158  | 0.0880 | 0.0165  |
| 366 | 6           | 20          | -15        | -0.0152 | -0.1251 | -0.0601 | -0.0628 | 0.1380 | -0.1948 |
| 362 | 6           | 20          | -10        | -0.0122 | -0.0644 | -0.0819 | -0.0393 | 0.1468 | -0.0964 |
| 358 | 6           | 20          | -5         | -0.0107 | -0.0330 | -0.0931 | -0.0251 | 0.1482 | -0.0525 |
| 342 | 6           | 20          | 0          | -0.0059 | -0.0149 | -0.0996 | -0.0138 | 0.1337 | -0.0270 |
| 346 | 6           | 20          | 5          | -0.0045 | -0.0092 | -0.1011 | -0.0102 | 0.1109 | -0.0190 |
| 350 | 6           | 20          | 10         | -0.0033 | -0.0040 | -0.1027 | -0.0077 | 0.0939 | -0.0111 |
| 354 | 6           | 20          | 15         | -0.0021 | -0.0012 | -0.1037 | -0.0077 | 0.0841 | -0.0091 |

\* Indicates model was close to heave stop

TABLE 8.214.1 - NON-DIMENSIONAL STABILITY DATA IN BODY AXES AT TRANSOM

20 deg Deadrise, L/R = 0.117, Cv = 4

| RUN   | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X'      | Y'      | Z'      | K'      | M'     | N'      |
|-------|-------------|-------------|------------|---------|---------|---------|---------|--------|---------|
| 588   | 0           | -10         | -10        | -0.0408 | -0.0489 | -0.0640 | -0.0173 | 0.3083 | -0.2011 |
| 584   | 0           | -10         | -5         | -0.0290 | -0.0079 | -0.0571 | -0.0014 | 0.2380 | -0.0417 |
| 572   | 0           | -10         | 0          | -0.0279 | 0.0105  | -0.0538 | 0.0064  | 0.2055 | 0.0315  |
| 576 * | 0           | -10         | 5          | -0.0436 | 0.0553  | -0.0459 | 0.0221  | 0.2059 | 0.1421  |
| 580 * | 0           | -10         | 10         | -0.0459 | 0.1327  | -0.0323 | 0.0462  | 0.1856 | 0.3736  |
| 467 * | 0           | 0           | -10        | -0.0492 | -0.0942 | -0.0545 | -0.0335 | 0.2313 | -0.3595 |
| 462   | 0           | 0           | -5         | -0.0325 | -0.0241 | -0.0544 | -0.0076 | 0.2172 | -0.1167 |
| 445   | 0           | 0           | 0          | -0.0262 | -0.0014 | -0.0545 | -0.0003 | 0.2117 | -0.0169 |
| 449   | 0           | 0           | 5          | -0.0319 | 0.0234  | -0.0545 | 0.0110  | 0.2276 | 0.0663  |
| 453 * | 0           | 0           | 10         | -0.0459 | 0.0946  | -0.0544 | 0.0378  | 0.2721 | 0.2459  |
| 457 * | 0           | 0           | 15         | -0.0512 | 0.1865  | -0.0545 | 0.0761  | 0.2992 | 0.4937  |
| 537 * | 0           | 10          | -10        | -0.0485 | -0.1241 | -0.0338 | -0.0390 | 0.1169 | -0.4825 |
| 533   | 0           | 10          | -5         | -0.0366 | -0.0436 | -0.0480 | -0.0173 | 0.1605 | -0.1806 |
| 474   | 0           | 10          | 0          | -0.0281 | -0.0110 | -0.0534 | -0.0024 | 0.1977 | -0.0631 |
| 519   | 0           | 10          | 0          | -0.0277 | -0.0117 | -0.0525 | -0.0040 | 0.1963 | -0.0661 |
| 520   | 0           | 10          | 0          | -0.0280 | -0.0129 | -0.0544 | -0.0046 | 0.2004 | -0.0691 |
| 479   | 0           | 10          | 5          | -0.0253 | 0.0066  | -0.0554 | 0.0046  | 0.2099 | 0.0041  |
| 521   | 0           | 10          | 5          | -0.0254 | 0.0057  | -0.0559 | 0.0045  | 0.2123 | 0.0014  |
| 529   | 0           | 10          | 10         | -0.0285 | 0.0352  | -0.0611 | 0.0208  | 0.2489 | 0.0897  |
| 563   | 0           | 20          | -10        | -0.0526 | -0.1079 | -0.0191 | -0.0339 | 0.1807 | -0.4354 |
| 566 * | 0           | 20          | -8         | -0.0489 | -0.1138 | -0.0169 | -0.0371 | 0.0531 | -0.4541 |
| 554   | 0           | 20          | -5         | -0.0357 | -0.0512 | -0.0407 | -0.0185 | 0.1244 | -0.1972 |
| 559   | 0           | 20          | -5         | -0.0363 | -0.0565 | -0.0371 | -0.0251 | 0.1138 | -0.2168 |
| 541   | 0           | 20          | 0          | -0.0308 | -0.0195 | -0.0516 | -0.0093 | 0.1602 | -0.0820 |
| 547   | 0           | 20          | 5          | -0.0242 | -0.0068 | -0.0563 | -0.0034 | 0.2001 | -0.0447 |
| 564   | 0           | 20          | 5          | -0.0246 | -0.0057 | -0.0563 | -0.0028 | 0.2021 | -0.0413 |
| 551   | 0           | 20          | 10         | -0.0205 | 0.0087  | -0.0618 | 0.0016  | 0.1975 | 0.0000  |
| 552   | 0           | 20          | 10         | -0.0205 | 0.0088  | -0.0623 | 0.0015  | 0.1990 | 0.0001  |
| 565   | 0           | 20          | 10         | -0.0205 | 0.0071  | -0.0609 | 0.0010  | 0.1981 | -0.0038 |
| 253   | 3           | -10         | -15        | -0.0070 | -0.0173 | -0.0588 | -0.0108 | 0.0842 | -0.0213 |
| 248   | 3           | -10         | -10        | -0.0080 | -0.0066 | -0.0572 | -0.0036 | 0.0945 | -0.0065 |
| 249   | 3           | -10         | -10        | -0.0076 | -0.0061 | -0.0569 | -0.0033 | 0.0935 | -0.0056 |
| 244   | 3           | -10         | -5         | -0.0096 | 0.0032  | -0.0553 | 0.0027  | 0.1123 | 0.0086  |
| 240   | 3           | -10         | 0          | -0.0122 | 0.0164  | -0.0532 | 0.0127  | 0.1294 | 0.0346  |
| 236   | 3           | -10         | 5          | -0.0168 | 0.0406  | -0.0491 | 0.0242  | 0.1380 | 0.0748  |
| 232   | 3           | -10         | 10         | -0.0286 | 0.1133  | -0.0370 | 0.0550  | 0.1758 | 0.2327  |
| 228 * | 3           | -10         | 15         | -0.0398 | 0.2660  | -0.0106 | 0.1115  | 0.1970 | 0.6144  |
| 254 * | 3           | -10         | 15         | -0.0402 | 0.2658  | -0.0110 | 0.1091  | 0.1984 | 0.6156  |
| 112   | 3           | 0           | -15        | -0.0204 | -0.0724 | -0.0556 | -0.0429 | 0.1743 | -0.1691 |
| 107   | 3           | 0           | -10        | -0.0112 | -0.0173 | -0.0548 | -0.0129 | 0.1167 | -0.0379 |
| 103   | 3           | 0           | -5         | -0.0109 | -0.0045 | -0.0549 | -0.0035 | 0.1103 | -0.0110 |
| 99    | 3           | 0           | 0          | -0.0107 | 0.0067  | -0.0548 | 0.0048  | 0.1114 | 0.0123  |
| 95    | 3           | 0           | 5          | -0.0123 | 0.0221  | -0.0551 | 0.0155  | 0.1207 | 0.0396  |
| 82    | 3           | 0           | 10         | -0.0170 | 0.0501  | -0.0554 | 0.0318  | 0.1506 | 0.0905  |
| 84    | 3           | 0           | 15         | -0.0309 | 0.1476  | -0.0565 | 0.0768  | 0.2414 | 0.3007  |

\* Indicates model was close to heave stop

TABLE B 214.2 - NON-DIMENSIONAL STABILITY DATA IN BODY AXES AT TRANSOM

20 deg Deadrise, L/R = 0.117, Cv = 4

| RUN | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X'      | Y'      | Z'      | K'      | M'     | N'      |
|-----|-------------|-------------|------------|---------|---------|---------|---------|--------|---------|
| 158 | 3           | 10          | -15        | -0.0345 | -0.1531 | -0.0305 | -0.0799 | 0.1550 | -0.4156 |
| 162 | 3           | 10          | -10        | -0.0169 | -0.0360 | -0.0495 | -0.0237 | 0.1342 | -0.0818 |
| 166 | 3           | 10          | -5         | -0.0129 | -0.0129 | -0.0534 | -0.0110 | 0.1205 | -0.0336 |
| 170 | 3           | 10          | 0          | -0.0099 | -0.0014 | -0.0552 | -0.0020 | 0.1035 | -0.0073 |
| 174 | 3           | 10          | 5          | -0.0086 | 0.0087  | -0.0571 | 0.0052  | 0.0880 | 0.0091  |
| 186 | 3           | 10          | 5          | -0.0080 | 0.0086  | -0.0571 | 0.0047  | 0.0874 | 0.0084  |
| 190 | 3           | 10          | 10         | -0.0074 | 0.0196  | -0.0592 | 0.0115  | 0.0790 | 0.0215  |
| 194 | 3           | 10          | 15         | -0.0071 | 0.0327  | -0.0615 | 0.0200  | 0.0747 | 0.0372  |
| 222 | 3           | 20          | -15        | -0.0237 | -0.1113 | -0.0191 | -0.0567 | 0.0948 | -0.2810 |
| 224 | 3           | 20          | -14        | -0.0329 | -0.1493 | -0.0059 | -0.0707 | 0.1018 | -0.3969 |
| 223 | 3           | 20          | -13        | -0.0300 | -0.1186 | -0.0168 | -0.0602 | 0.1111 | -0.3079 |
| 218 | 3           | 20          | -10        | -0.0180 | -0.0485 | -0.0416 | -0.0277 | 0.1218 | -0.1125 |
| 214 | 3           | 20          | -5         | -0.0127 | -0.0214 | -0.0509 | -0.0149 | 0.1166 | -0.0517 |
| 210 | 3           | 20          | 0          | -0.0098 | -0.0110 | -0.0546 | -0.0073 | 0.1027 | -0.0258 |
| 206 | 3           | 20          | 5          | -0.0082 | -0.0018 | -0.0578 | -0.0012 | 0.0869 | -0.0077 |
| 202 | 3           | 20          | 10         | -0.0072 | 0.0083  | -0.0614 | 0.0049  | 0.0793 | 0.0074  |
| 198 | 3           | 20          | 15         | -0.0066 | 0.0183  | -0.0651 | 0.0104  | 0.0760 | 0.0187  |
| 422 | 6           | -10         | -15        | -0.0017 | -0.0044 | -0.0566 | -0.0019 | 0.0439 | -0.0014 |
| 418 | 6           | -10         | -10        | -0.0014 | 0.0016  | -0.0555 | 0.0017  | 0.0465 | 0.0033  |
| 414 | 6           | -10         | -5         | -0.0014 | 0.0066  | -0.0546 | 0.0050  | 0.0502 | 0.0075  |
| 396 | 6           | -10         | 0          | -0.0028 | 0.0132  | -0.0535 | 0.0100  | 0.0576 | 0.0153  |
| 400 | 6           | -10         | 5          | -0.0051 | 0.0237  | -0.0519 | 0.0166  | 0.0707 | 0.0258  |
| 404 | 6           | -10         | 10         | -0.0086 | 0.0509  | -0.0476 | 0.0309  | 0.0873 | 0.0547  |
| 408 | 6           | -10         | 15         | -0.0129 | 0.1224  | -0.0355 | 0.0628  | 0.1251 | 0.1547  |
| 298 | 6           | 0           | -15        | -0.0028 | -0.0177 | -0.0551 | -0.0140 | 0.0446 | -0.0115 |
| 294 | 6           | 0           | -10        | -0.0024 | -0.0095 | -0.0551 | -0.0079 | 0.0442 | -0.0052 |
| 290 | 6           | 0           | -5         | -0.0014 | -0.0019 | -0.0550 | -0.0024 | 0.0421 | -0.0003 |
| 270 | 6           | 0           | 0          | -0.0012 | 0.0073  | -0.0551 | 0.0057  | 0.0429 | 0.0104  |
| 272 | 6           | 0           | 0          | -0.0009 | 0.0053  | -0.0553 | 0.0033  | 0.0423 | 0.0041  |
| 276 | 6           | 0           | 5          | -0.0022 | 0.0131  | -0.0554 | 0.0091  | 0.0427 | 0.0098  |
| 281 | 6           | 0           | 10         | -0.0026 | 0.0207  | -0.0554 | 0.0147  | 0.0437 | 0.0150  |
| 286 | 6           | 0           | 15         | -0.0032 | 0.0296  | -0.0553 | 0.0214  | 0.0464 | 0.0227  |
| 303 | 6           | 10          | -15        | -0.0060 | -0.0349 | -0.0501 | -0.0251 | 0.0791 | -0.0378 |
| 307 | 6           | 10          | -10        | -0.0046 | -0.0178 | -0.0530 | -0.0151 | 0.0655 | -0.0191 |
| 311 | 6           | 10          | -5         | -0.0027 | -0.0103 | -0.0541 | -0.0092 | 0.0526 | -0.0092 |
| 322 | 6           | 10          | -5         | -0.0030 | -0.0113 | -0.0545 | -0.0108 | 0.0529 | -0.0122 |
| 327 | 6           | 10          | 0          | -0.0017 | -0.0045 | -0.0554 | -0.0057 | 0.0445 | -0.0044 |
| 331 | 6           | 10          | 5          | -0.0007 | 0.0007  | -0.0564 | -0.0024 | 0.0420 | -0.0009 |
| 335 | 6           | 10          | 10         | -0.0012 | 0.0064  | -0.0575 | 0.0008  | 0.0369 | 0.0022  |
| 339 | 6           | 10          | 15         | -0.0013 | 0.0133  | -0.0585 | 0.0047  | 0.0359 | 0.0072  |
| 367 | 6           | 20          | -15        | -0.0108 | -0.0797 | -0.0308 | -0.0407 | 0.0821 | -0.1046 |
| 363 | 6           | 20          | -10        | -0.0080 | -0.0361 | -0.0464 | -0.0239 | 0.0799 | -0.0453 |
| 359 | 6           | 20          | -5         | -0.0066 | -0.0164 | -0.0534 | -0.0148 | 0.0721 | -0.0226 |
| 343 | 6           | 20          | 0          | -0.0028 | -0.0120 | -0.0546 | -0.0113 | 0.0525 | -0.0130 |
| 347 | 6           | 20          | 5          | -0.0019 | -0.0095 | -0.0555 | -0.0102 | 0.0415 | -0.0091 |
| 351 | 6           | 20          | 10         | -0.0011 | -0.0083 | -0.0558 | -0.0098 | 0.0360 | -0.0074 |
| 355 | 6           | 20          | 15         | -0.0007 | -0.0076 | -0.0559 | -0.0100 | 0.0336 | -0.0076 |

\* Indicates model was close to heave stop



TABLE 8.221.1 - NON-DIMENSIONAL STABILITY DATA IN BODY AXES AT TRANSOM

20 deg Deadrise, L/R = 0.234, Cv = 1.5

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X'      | Y'      | Z'      | K'      | M'     | N'      |
|--------|-------------|-------------|------------|---------|---------|---------|---------|--------|---------|
| 2935   | 0           | -10         | -15        | -0.0673 | -0.1221 | -0.4171 | -0.0170 | 1.1937 | -0.6209 |
| 2936   | 0           | -10         | -15        | -0.0650 | -0.1181 | -0.4164 | -0.0156 | 1.1867 | -0.6033 |
| 2931   | 0           | -10         | -10        | -0.0541 | -0.0287 | -0.4006 | 0.0182  | 1.0844 | -0.2617 |
| 2927   | 0           | -10         | -5         | -0.0480 | 0.0292  | -0.3904 | 0.0432  | 1.0299 | -0.0301 |
| 2913   | 0           | -10         | 0          | -0.0430 | 0.0617  | -0.3858 | 0.0504  | 1.0082 | 0.1101  |
| 2917   | 0           | -10         | 5          | -0.0446 | 0.0917  | -0.3794 | 0.0609  | 1.0137 | 0.2339  |
| 2921   | 0           | -10         | 10         | -0.0576 | 0.1493  | -0.3693 | 0.0777  | 1.0501 | 0.4161  |
| 2925 * | 0           | -10         | 15         | -0.0740 | 0.2588  | -0.3499 | 0.1015  | 1.0964 | 0.7702  |
| 2832 * | 0           | 0           | -15        | -0.0721 | -0.2445 | -0.3896 | -0.0803 | 1.0333 | -0.9918 |
| 2826   | 0           | 0           | -10        | -0.0575 | -0.1073 | -0.3896 | -0.0262 | 1.0221 | -0.4713 |
| 2822   | 0           | 0           | -5         | -0.0469 | -0.0414 | -0.3896 | -0.0007 | 0.9958 | -0.2101 |
| 2799   | 0           | 0           | 0          | -0.0451 | -0.0069 | -0.3906 | 0.0075  | 1.0074 | -0.0676 |
| 2803   | 0           | 0           | 5          | -0.0467 | 0.0167  | -0.3906 | 0.0163  | 1.0348 | 0.0318  |
| 2817   | 0           | 0           | 10         | -0.0537 | 0.0621  | -0.3906 | 0.0324  | 1.0930 | 0.1896  |
| 2860 * | 0           | 10          | -15        | -0.0812 | -0.2824 | -0.3458 | -0.0977 | 0.8924 | -1.0770 |
| 2856   | 0           | 10          | -10        | -0.0614 | -0.1908 | -0.3609 | -0.0773 | 0.8949 | -0.7049 |
| 2852   | 0           | 10          | -5         | -0.0499 | -0.1148 | -0.3743 | -0.0535 | 0.9269 | -0.4035 |
| 2836   | 0           | 10          | 0          | -0.0439 | -0.0804 | -0.3814 | -0.0504 | 0.9614 | -0.2610 |
| 2840   | 0           | 10          | 5          | -0.0452 | -0.0510 | -0.3866 | -0.0370 | 1.0085 | -0.1480 |
| 2844   | 0           | 10          | 10         | -0.0522 | -0.0154 | -0.3929 | -0.0182 | 1.0779 | -0.0283 |
| 2848   | 0           | 10          | 15         | -0.0670 | 0.0612  | -0.4053 | 0.0128  | 1.2288 | 0.1970  |
| 2849   | 0           | 10          | 15         | -0.0676 | 0.0614  | -0.4064 | 0.0141  | 1.2318 | 0.1968  |
| 2894 * | 0           | 20          | -15        | -0.0873 | -0.3426 | -0.2899 | -0.1205 | 0.6883 | -1.2322 |
| 2890   | 0           | 20          | -10        | -0.0638 | -0.2277 | -0.3306 | -0.0998 | 0.7812 | -0.7586 |
| 2886   | 0           | 20          | -5         | -0.0514 | -0.1792 | -0.3494 | -0.0922 | 0.8413 | -0.5607 |
| 2865   | 0           | 20          | 0          | -0.0430 | -0.1426 | -0.3638 | -0.0855 | 0.9037 | -0.4231 |
| 2869   | 0           | 20          | 5          | -0.0429 | -0.1151 | -0.3727 | -0.0778 | 0.9559 | -0.3258 |
| 2873   | 0           | 20          | 10         | -0.0468 | -0.0767 | -0.3867 | -0.0609 | 1.0537 | -0.2051 |
| 2877   | 0           | 20          | 15         | -0.0594 | -0.0152 | -0.4091 | -0.0302 | 1.2047 | -0.0287 |
| 3073   | 3           | -10         | -15        | -0.0310 | -0.0427 | -0.4064 | -0.0041 | 0.9151 | -0.1854 |
| 3069   | 3           | -10         | -10        | -0.0266 | 0.0172  | -0.3967 | 0.0327  | 0.8260 | -0.0347 |
| 3065   | 3           | -10         | -5         | -0.0239 | 0.0579  | -0.3893 | 0.0539  | 0.7794 | 0.0701  |
| 3048   | 3           | -10         | 0          | -0.0219 | 0.0854  | -0.3844 | 0.0671  | 0.7661 | 0.1357  |
| 3052   | 3           | -10         | 5          | -0.0249 | 0.1177  | -0.3778 | 0.0809  | 0.7781 | 0.2142  |
| 3057   | 3           | -10         | 10         | -0.0315 | 0.1722  | -0.3685 | 0.0977  | 0.8200 | 0.3409  |
| 3060   | 3           | -10         | 15         | -0.0453 | 0.2976  | -0.3471 | 0.1370  | 0.8766 | 0.6262  |
| 2968   | 3           | 0           | -15        | -0.0357 | -0.1374 | -0.3920 | -0.0627 | 0.8123 | -0.4175 |
| 2963   | 3           | 0           | -10        | -0.0282 | -0.0608 | -0.3916 | -0.0242 | 0.7601 | -0.1959 |
| 2959   | 3           | 0           | -5         | -0.0258 | -0.0180 | -0.3915 | -0.0034 | 0.7493 | -0.0809 |
| 2943   | 3           | 0           | 0          | -0.0228 | 0.0097  | -0.3913 | 0.0135  | 0.7564 | -0.0129 |
| 2947   | 3           | 0           | 5          | -0.0251 | 0.0397  | -0.3914 | 0.0305  | 0.7831 | 0.0569  |
| 2951   | 3           | 0           | 10         | -0.0310 | 0.0850  | -0.3917 | 0.0498  | 0.8373 | 0.1530  |
| 2955   | 3           | 0           | 15         | -0.0423 | 0.1809  | -0.3923 | 0.0882  | 0.9359 | 0.3494  |

\* Indicates model was close to heave stop

TABLE 8.221.2 - NON-DIMENSIONAL STABILITY DATA IN BODY AXES AT TRANSOM

20 deg Deadrise, L/R = 0.234, Cv = 1.5

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X'      | Y'      | Z'      | K'      | M'     | N'      |
|------|-------------|-------------|------------|---------|---------|---------|---------|--------|---------|
| 2985 | 3           | 10          | -15        | -0.0374 | -0.2061 | -0.3618 | -0.1003 | 0.7136 | -0.5521 |
| 2986 | 3           | 10          | -15        | -0.0370 | -0.2057 | -0.3618 | -0.0991 | 0.7139 | -0.5545 |
| 2981 | 3           | 10          | -10        | -0.0299 | -0.1279 | -0.3752 | -0.0685 | 0.7171 | -0.3278 |
| 2977 | 3           | 10          | -5         | -0.0265 | -0.0891 | -0.3818 | -0.0537 | 0.7217 | -0.2186 |
| 2973 | 3           | 10          | 0          | -0.0238 | -0.0562 | -0.3864 | -0.0350 | 0.7363 | -0.1345 |
| 2990 | 3           | 10          | 5          | -0.0258 | -0.0326 | -0.3918 | -0.0253 | 0.7653 | -0.0876 |
| 2994 | 3           | 10          | 10         | -0.0273 | 0.0100  | -0.3993 | 0.0059  | 0.8330 | -0.0081 |
| 2998 | 3           | 10          | 15         | -0.0352 | 0.0717  | -0.4106 | 0.0353  | 0.9430 | 0.1060  |
| 3043 | 3           | 20          | -15        | -0.0402 | -0.2557 | -0.3266 | -0.1035 | 0.6354 | -0.6595 |
| 3038 | 3           | 20          | -10        | -0.0293 | -0.1975 | -0.3471 | -0.0997 | 0.6559 | -0.4661 |
| 3034 | 3           | 20          | -5         | -0.0279 | -0.1462 | -0.3658 | -0.0816 | 0.6958 | -0.3230 |
| 3004 | 3           | 20          | 0          | -0.0245 | -0.1199 | -0.3729 | -0.0760 | 0.7162 | -0.2608 |
| 3008 | 3           | 20          | 5          | -0.0248 | -0.0899 | -0.3838 | -0.0635 | 0.7486 | -0.1999 |
| 3025 | 3           | 20          | 10         | -0.0232 | -0.0520 | -0.3998 | -0.0451 | 0.8111 | -0.1349 |
| 3030 | 3           | 20          | 15         | -0.0279 | -0.0097 | -0.4166 | -0.0191 | 0.9145 | -0.0655 |
| 3199 | 6           | -10         | -15        | -0.0114 | -0.0250 | -0.4045 | 0.0000  | 0.6622 | -0.0358 |
| 3195 | 6           | -10         | -10        | -0.0107 | 0.0164  | -0.3971 | 0.0256  | 0.6193 | 0.0173  |
| 3191 | 6           | -10         | -5         | -0.0107 | 0.0548  | -0.3892 | 0.0473  | 0.5919 | 0.0659  |
| 3187 | 6           | -10         | 0          | -0.0104 | 0.0952  | -0.3821 | 0.0695  | 0.5817 | 0.1240  |
| 3203 | 6           | -10         | 5          | -0.0155 | 0.1365  | -0.3764 | 0.0921  | 0.5966 | 0.1866  |
| 3207 | 6           | -10         | 10         | -0.0194 | 0.1964  | -0.3663 | 0.1155  | 0.6243 | 0.2733  |
| 3211 | 6           | -10         | 15         | -0.0249 | 0.3110  | -0.3467 | 0.1604  | 0.6800 | 0.4565  |
| 3212 | 6           | -10         | 15         | -0.0285 | 0.3198  | -0.3444 | 0.1668  | 0.6742 | 0.4743  |
| 3107 | 6           | 0           | -15        | -0.0144 | -0.0910 | -0.3954 | -0.0454 | 0.6145 | -0.1579 |
| 3102 | 6           | 0           | -10        | -0.0127 | -0.0478 | -0.3952 | -0.0203 | 0.5875 | -0.0879 |
| 3098 | 6           | 0           | -5         | -0.0127 | -0.0095 | -0.3952 | 0.0028  | 0.5840 | -0.0294 |
| 3082 | 6           | 0           | 0          | -0.0094 | 0.0266  | -0.3948 | 0.0247  | 0.5874 | 0.0228  |
| 3085 | 6           | 0           | 5          | -0.0118 | 0.0624  | -0.3951 | 0.0457  | 0.6068 | 0.0725  |
| 3090 | 6           | 0           | 10         | -0.0168 | 0.1131  | -0.3956 | 0.0743  | 0.6450 | 0.1428  |
| 3094 | 6           | 0           | 15         | -0.0210 | 0.1905  | -0.3961 | 0.1054  | 0.7079 | 0.2456  |
| 3151 | 6           | 10          | -15        | -0.0171 | -0.1645 | -0.3738 | -0.0857 | 0.5789 | -0.2726 |
| 3147 | 6           | 10          | -10        | -0.0130 | -0.1093 | -0.3831 | -0.0602 | 0.5710 | -0.1753 |
| 3143 | 6           | 10          | -5         | -0.0124 | -0.0701 | -0.3900 | -0.0373 | 0.5728 | -0.1117 |
| 3126 | 6           | 10          | 0          | -0.0095 | -0.0331 | -0.3973 | -0.0178 | 0.5900 | -0.0576 |
| 3130 | 6           | 10          | 5          | -0.0102 | 0.0048  | -0.4041 | 0.0024  | 0.6189 | -0.0204 |
| 3135 | 6           | 10          | 10         | -0.0128 | 0.0426  | -0.4099 | 0.0272  | 0.6632 | 0.0276  |
| 3139 | 6           | 10          | 15         | -0.0181 | 0.0964  | -0.4200 | 0.0590  | 0.7239 | 0.0940  |
| 3169 | 6           | 20          | -15        | -0.0198 | -0.2508 | -0.3301 | -0.1225 | 0.5120 | -0.4144 |
| 3165 | 6           | 20          | -10        | -0.0171 | -0.1806 | -0.3553 | -0.0979 | 0.5302 | -0.2849 |
| 3161 | 6           | 20          | -5         | -0.0158 | -0.1359 | -0.3726 | -0.0772 | 0.5524 | -0.2090 |
| 3157 | 6           | 20          | 0          | -0.0142 | -0.0987 | -0.3848 | -0.0630 | 0.5737 | -0.1568 |
| 3173 | 6           | 20          | 5          | -0.0189 | -0.0517 | -0.4024 | -0.0375 | 0.6096 | -0.0942 |
| 3177 | 6           | 20          | 10         | -0.0171 | -0.0130 | -0.4163 | -0.0119 | 0.6683 | -0.0559 |
| 3181 | 6           | 20          | 15         | -0.0166 | 0.0219  | -0.4290 | 0.0142  | 0.7092 | -0.0120 |

\* Indicates model was close to heave stop

TABLE 8.223.1 - NON-DIMENSIONAL STABILITY DATA IN BODY AXES AT TRANSOM

20 deg Deadrise, L/R = 0.234, Cv = 3

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X'      | Y'      | Z'      | K'      | M'     | N'      |
|--------|-------------|-------------|------------|---------|---------|---------|---------|--------|---------|
| 2937 * | 0           | -10         | -15        | -0.0669 | -0.1849 | -0.1311 | -0.0778 | 0.4769 | -0.7050 |
| 2939 * | 0           | -10         | -15        | -0.0652 | -0.1858 | -0.1313 | -0.0764 | 0.4582 | -0.7124 |
| 2932   | 0           | -10         | -10        | -0.0454 | -0.0801 | -0.1128 | -0.0270 | 0.4170 | -0.3461 |
| 2928   | 0           | -10         | -5         | -0.0370 | -0.0247 | -0.1030 | -0.0039 | 0.3554 | -0.1319 |
| 2914   | 0           | -10         | 0          | -0.0344 | 0.0110  | -0.0968 | 0.0116  | 0.3097 | -0.0101 |
| 2918   | 0           | -10         | 5          | -0.0410 | 0.0541  | -0.0890 | 0.0260  | 0.3246 | 0.0974  |
| 2922 * | 0           | -10         | 10         | -0.0540 | 0.1497  | -0.0721 | 0.0593  | 0.3445 | 0.3483  |
| 2833 * | 0           | 0           | -15        | -0.0598 | -0.2421 | -0.0971 | -0.0956 | 0.3068 | -0.9210 |
| 2828   | 0           | 0           | -10        | -0.0493 | -0.1101 | -0.0970 | -0.0371 | 0.2884 | -0.4417 |
| 2823   | 0           | 0           | -5         | -0.0370 | -0.0393 | -0.0971 | -0.0105 | 0.2979 | -0.1817 |
| 2800   | 0           | 0           | 0          | -0.0342 | -0.0058 | -0.0970 | 0.0042  | 0.3077 | -0.0613 |
| 2804   | 0           | 0           | 5          | -0.0383 | 0.0239  | -0.0973 | 0.0160  | 0.3467 | 0.0314  |
| 2818 * | 0           | 0           | 10         | -0.0539 | 0.1162  | -0.0973 | 0.0500  | 0.4146 | 0.2344  |
| 2857   | 0           | 10          | -10        | -0.0480 | -0.1537 | -0.0715 | -0.0558 | 0.1547 | -0.5879 |
| 2853   | 0           | 10          | -5         | -0.0383 | -0.0627 | -0.0873 | -0.0236 | 0.2218 | -0.2460 |
| 2837   | 0           | 10          | 0          | -0.0338 | -0.0233 | -0.0944 | -0.0089 | 0.2633 | -0.1085 |
| 2841   | 0           | 10          | 5          | -0.0348 | 0.0043  | -0.0990 | 0.0067  | 0.3228 | -0.0235 |
| 2845   | 0           | 10          | 10         | -0.0417 | 0.0481  | -0.1067 | 0.0291  | 0.3842 | 0.0892  |
| 2850 * | 0           | 10          | 15         | -0.0579 | 0.1714  | -0.1286 | 0.0818  | 0.5131 | 0.3749  |
| 2896 * | 0           | 20          | -15        | -0.0780 | -0.2595 | -0.0088 | -0.1004 | 0.2129 | -1.0094 |
| 2892   | 0           | 20          | -10        | -0.0519 | -0.1325 | -0.0551 | -0.0491 | 0.2393 | -0.5075 |
| 2887   | 0           | 20          | -5         | -0.0375 | -0.0812 | -0.0738 | -0.0332 | 0.1768 | -0.2933 |
| 2866   | 0           | 20          | 0          | -0.0329 | -0.0411 | -0.0886 | -0.0212 | 0.2259 | -0.1486 |
| 2870   | 0           | 20          | 5          | -0.0320 | -0.0117 | -0.0990 | -0.0060 | 0.2857 | -0.0696 |
| 2874   | 0           | 20          | 10         | -0.0292 | 0.0103  | -0.1071 | 0.0084  | 0.3185 | -0.0132 |
| 2878   | 0           | 20          | 15         | -0.0257 | 0.0301  | -0.1140 | 0.0166  | 0.3173 | 0.0354  |
| 2883   | 0           | 20          | 15         | -0.0259 | 0.0289  | -0.1136 | 0.0150  | 0.3194 | 0.0326  |
| 3074   | 3           | -10         | -15        | -0.0141 | -0.0275 | -0.1048 | -0.0130 | 0.2346 | -0.0686 |
| 3070   | 3           | -10         | -10        | -0.0144 | -0.0102 | -0.1016 | -0.0006 | 0.2348 | -0.0314 |
| 3066   | 3           | -10         | -5         | -0.0152 | 0.0059  | -0.0988 | 0.0106  | 0.2358 | 0.0052  |
| 3049   | 3           | -10         | 0          | -0.0173 | 0.0303  | -0.0945 | 0.0240  | 0.2271 | 0.0468  |
| 3053   | 3           | -10         | 5          | -0.0221 | 0.0623  | -0.0892 | 0.0387  | 0.2387 | 0.1047  |
| 3054   | 3           | -10         | 5          | -0.0219 | 0.0624  | -0.0891 | 0.0388  | 0.2375 | 0.1052  |
| 3058   | 3           | -10         | 10         | -0.0321 | 0.1420  | -0.0758 | 0.0714  | 0.2762 | 0.2611  |
| 3062 * | 3           | -10         | 15         | -0.0488 | 0.3054  | -0.0479 | 0.1322  | 0.3311 | 0.6579  |
| 2969   | 3           | 0           | -15        | -0.0324 | -0.1168 | -0.0987 | -0.0602 | 0.2910 | -0.3323 |
| 2964   | 3           | 0           | -10        | -0.0206 | -0.0390 | -0.0982 | -0.0208 | 0.2323 | -0.1196 |
| 2960   | 3           | 0           | -5         | -0.0175 | -0.0089 | -0.0980 | -0.0033 | 0.2125 | -0.0388 |
| 2944   | 3           | 0           | 0          | -0.0168 | 0.0087  | -0.0979 | 0.0078  | 0.2134 | -0.0012 |
| 2948   | 3           | 0           | 5          | -0.0181 | 0.0324  | -0.0983 | 0.0226  | 0.2284 | 0.0432  |
| 2953   | 3           | 0           | 10         | -0.0232 | 0.0721  | -0.0980 | 0.0443  | 0.2635 | 0.1101  |
| 2956   | 3           | 0           | 15         | -0.0375 | 0.1773  | -0.0992 | 0.0907  | 0.3666 | 0.3143  |

\* Indicates model was close to heave stop

TABLE 8.223.2 - NON-DIMENSIONAL STABILITY DATA IN BODY AXES AT TRANSOM

20 deg Deadrise, L/R = 0.234, Cv = 3

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X'      | Y'      | Z'      | K'      | M'     | N'      |
|------|-------------|-------------|------------|---------|---------|---------|---------|--------|---------|
| 2987 | 3           | 10          | -15        | -0.0194 | -0.0786 | -0.0858 | -0.0453 | 0.2727 | -0.1879 |
| 2982 | 3           | 10          | -10        | -0.0243 | -0.0595 | -0.0894 | -0.0317 | 0.2048 | -0.1589 |
| 2978 | 3           | 10          | -5         | -0.0184 | -0.0222 | -0.0956 | -0.0144 | 0.1986 | -0.0661 |
| 2974 | 3           | 10          | 0          | -0.0159 | -0.0053 | -0.0985 | -0.0029 | 0.2025 | -0.0297 |
| 2991 | 3           | 10          | 5          | -0.0133 | 0.0094  | -0.1009 | 0.0083  | 0.1986 | 0.0019  |
| 2995 | 3           | 10          | 10         | -0.0131 | 0.0269  | -0.1042 | 0.0223  | 0.1954 | 0.0335  |
| 2999 | 3           | 10          | 15         | -0.0131 | 0.0488  | -0.1078 | 0.0388  | 0.1971 | 0.0691  |
| 3044 | 3           | 20          | -15        | -0.0252 | -0.1197 | -0.0616 | -0.0484 | 0.2186 | -0.3069 |
| 3039 | 3           | 20          | -10        | -0.0222 | -0.0770 | -0.0771 | -0.0375 | 0.2075 | -0.1950 |
| 3035 | 3           | 20          | -5         | -0.0195 | -0.0375 | -0.0912 | -0.0223 | 0.1880 | -0.0867 |
| 3005 | 3           | 20          | 0          | -0.0164 | -0.0139 | -0.0994 | -0.0104 | 0.1954 | -0.0447 |
| 3009 | 3           | 20          | 5          | -0.0144 | 0.0001  | -0.1041 | -0.0002 | 0.1864 | -0.0184 |
| 3026 | 3           | 20          | 10         | -0.0117 | 0.0089  | -0.1032 | 0.0048  | 0.1689 | -0.0041 |
| 3031 | 3           | 20          | 15         | -0.0101 | 0.0186  | -0.1116 | 0.0097  | 0.1456 | 0.0107  |
| 3200 | 6           | -10         | -15        | -0.0041 | -0.0084 | -0.1010 | -0.0021 | 0.1053 | -0.0033 |
| 3196 | 6           | -10         | -10        | -0.0054 | 0.0001  | -0.0999 | 0.0041  | 0.1205 | 0.0040  |
| 3192 | 6           | -10         | -5         | -0.0054 | 0.0096  | -0.0983 | 0.0116  | 0.1383 | 0.0160  |
| 3188 | 6           | -10         | 0          | -0.0094 | 0.0302  | -0.0947 | 0.0248  | 0.1491 | 0.0373  |
| 3204 | 6           | -10         | 5          | -0.0126 | 0.0607  | -0.0899 | 0.0406  | 0.1611 | 0.0710  |
| 3208 | 6           | -10         | 10         | -0.0155 | 0.1110  | -0.0814 | 0.0654  | 0.1825 | 0.1366  |
| 3213 | 6           | -10         | 15         | -0.0253 | 0.2371  | -0.0601 | 0.1197  | 0.2385 | 0.3552  |
| 3108 | 6           | 0           | -15        | -0.0077 | -0.0252 | -0.0986 | -0.0164 | 0.1359 | -0.0350 |
| 3103 | 6           | 0           | -10        | -0.0055 | -0.0114 | -0.1016 | -0.0061 | 0.1342 | -0.0166 |
| 3104 | 6           | 0           | -10        | -0.0055 | -0.0112 | -0.0984 | -0.0060 | 0.1266 | -0.0159 |
| 3099 | 6           | 0           | -5         | -0.0057 | 0.0005  | -0.0987 | 0.0038  | 0.1240 | -0.0003 |
| 3081 | 6           | 0           | 0          | -0.0063 | 0.0112  | -0.0989 | 0.0122  | 0.1257 | 0.0124  |
| 3086 | 6           | 0           | 5          | -0.0070 | 0.0261  | -0.0989 | 0.0236  | 0.1316 | 0.0292  |
| 3091 | 6           | 0           | 10         | -0.0091 | 0.0491  | -0.0990 | 0.0388  | 0.1439 | 0.0531  |
| 3095 | 6           | 0           | 15         | -0.0127 | 0.0957  | -0.0991 | 0.0642  | 0.1802 | 0.1063  |
| 3152 | 6           | 10          | -15        | -0.0123 | -0.0572 | -0.0907 | -0.0331 | 0.1597 | -0.0881 |
| 3148 | 6           | 10          | -10        | -0.0096 | -0.0250 | -0.0962 | -0.0166 | 0.1470 | -0.0409 |
| 3144 | 6           | 10          | -5         | -0.0071 | -0.0079 | -0.0989 | -0.0040 | 0.1295 | -0.0150 |
| 3127 | 6           | 10          | 0          | -0.0061 | 0.0031  | -0.1012 | 0.0049  | 0.1120 | 0.0006  |
| 3131 | 6           | 10          | 5          | -0.0049 | 0.0123  | -0.1025 | 0.0119  | 0.0948 | 0.0072  |
| 3136 | 6           | 10          | 10         | -0.0052 | 0.0233  | -0.1045 | 0.0214  | 0.0840 | 0.0183  |
| 3140 | 6           | 10          | 15         | -0.0048 | 0.0310  | -0.1057 | 0.0260  | 0.0759 | 0.0222  |
| 3170 | 6           | 20          | -15        | -0.0158 | -0.1061 | -0.0672 | -0.0511 | 0.1311 | -0.1789 |
| 3166 | 6           | 20          | -10        | -0.0126 | -0.0489 | -0.0880 | -0.0282 | 0.1443 | -0.0789 |
| 3162 | 6           | 20          | -5         | -0.0106 | -0.0193 | -0.0987 | -0.0136 | 0.1434 | -0.0361 |
| 3158 | 6           | 20          | 0          | -0.0097 | -0.0001 | -0.1055 | -0.0028 | 0.1327 | -0.0094 |
| 3174 | 6           | 20          | 5          | -0.0078 | 0.0009  | -0.1055 | 0.0009  | 0.1018 | -0.0029 |
| 3178 | 6           | 20          | 10         | -0.0064 | 0.0023  | -0.1056 | 0.0017  | 0.0862 | -0.0014 |
| 3182 | 6           | 20          | 15         | -0.0068 | 0.0082  | -0.1078 | 0.0046  | 0.0731 | 0.0058  |

\* Indicates model was close to heave stop

TABLE 8.224.1 - NON-DIMENSIONAL STABILITY DATA IN BODY AXES AT TRANSOM

20 deg Deadrise, L/R = 0.234, Cv = 4

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X'      | Y'      | Z'      | K'      | M'     | N'      |
|--------|-------------|-------------|------------|---------|---------|---------|---------|--------|---------|
| 2933   | 0           | -10         | -10        | -0.0417 | -0.0805 | -0.0693 | -0.0309 | 0.3293 | -0.3499 |
| 2929   | 0           | -10         | -5         | -0.0326 | -0.0302 | -0.0604 | -0.0095 | 0.2715 | -0.1415 |
| 2915   | 0           | -10         | 0          | -0.0291 | -0.0010 | -0.0555 | 0.0030  | 0.2254 | -0.0237 |
| 2919   | 0           | -10         | 5          | -0.0401 | 0.0507  | -0.0461 | 0.0233  | 0.2251 | 0.0775  |
| 2829   | 0           | 0           | -10        | -0.0463 | -0.1002 | -0.0544 | -0.0348 | 0.2041 | -0.4318 |
| 2824   | 0           | 0           | -5         | -0.0327 | -0.0377 | -0.0546 | -0.0114 | 0.2123 | -0.1792 |
| 2801   | 0           | 0           | 0          | -0.0290 | -0.0090 | -0.0545 | 0.0012  | 0.2177 | -0.0648 |
| 2805   | 0           | 0           | 5          | -0.0340 | 0.0250  | -0.0545 | 0.0157  | 0.2412 | 0.0302  |
| 2820 * | 0           | 0           | 10         | -0.0465 | 0.1060  | -0.0545 | 0.0476  | 0.2954 | 0.2147  |
| 2858   | 0           | 10          | -10        | -0.0422 | -0.1307 | -0.0323 | -0.0443 | 0.0760 | -0.5446 |
| 2854   | 0           | 10          | -5         | -0.0363 | -0.0504 | -0.0463 | -0.0173 | 0.1336 | -0.2230 |
| 2838   | 0           | 10          | 0          | -0.0290 | -0.0165 | -0.0524 | -0.0036 | 0.1782 | -0.0967 |
| 2842   | 0           | 10          | 5          | -0.0310 | 0.0107  | -0.0572 | 0.0113  | 0.2205 | -0.0111 |
| 2846   | 0           | 10          | 10         | -0.0292 | 0.0332  | -0.0612 | 0.0251  | 0.2371 | 0.0594  |
| 2893   | 0           | 20          | -10        | -0.0478 | -0.1068 | -0.0191 | -0.0388 | 0.1630 | -0.4597 |
| 2888   | 0           | 20          | -5         | -0.0341 | -0.0634 | -0.0352 | -0.0233 | 0.0920 | -0.2576 |
| 2867   | 0           | 20          | 0          | -0.0300 | -0.0236 | -0.0497 | -0.0097 | 0.1397 | -0.1104 |
| 2871   | 0           | 20          | 5          | -0.0258 | -0.0011 | -0.0575 | 0.0031  | 0.1827 | -0.0460 |
| 2875   | 0           | 20          | 10         | -0.0199 | 0.0109  | -0.0620 | 0.0053  | 0.1787 | -0.0062 |
| 2879   | 0           | 20          | 15         | -0.0173 | 0.0219  | -0.0661 | 0.0068  | 0.1700 | 0.0229  |
| 2884   | 0           | 20          | 15         | -0.0171 | 0.0213  | -0.0658 | 0.0064  | 0.1706 | 0.0220  |
| 3075   | 3           | -10         | -15        | -0.0105 | -0.0252 | -0.0608 | -0.0129 | 0.1157 | -0.0537 |
| 3071   | 3           | -10         | -10        | -0.0109 | -0.0117 | -0.0581 | -0.0029 | 0.1284 | -0.0301 |
| 3067   | 3           | -10         | -5         | -0.0118 | 0.0022  | -0.0556 | 0.0069  | 0.1410 | 0.0004  |
| 3050   | 3           | -10         | 0          | -0.0144 | 0.0208  | -0.0526 | 0.0174  | 0.1464 | 0.0331  |
| 3055   | 3           | -10         | 5          | -0.0196 | 0.0584  | -0.0462 | 0.0355  | 0.1595 | 0.0948  |
| 3059   | 3           | -10         | 10         | -0.0289 | 0.1342  | -0.0334 | 0.0669  | 0.2019 | 0.2441  |
| 2970   | 3           | 0           | -15        | -0.0292 | -0.1026 | -0.0561 | -0.0544 | 0.2098 | -0.3067 |
| 2965   | 3           | 0           | -10        | -0.0175 | -0.0284 | -0.0557 | -0.0168 | 0.1473 | -0.0942 |
| 2961   | 3           | 0           | -5         | -0.0131 | -0.0065 | -0.0554 | -0.0018 | 0.1274 | -0.0289 |
| 2945   | 3           | 0           | 0          | -0.0133 | 0.0085  | -0.0558 | 0.0074  | 0.1262 | 0.0040  |
| 2949   | 3           | 0           | 5          | -0.0139 | 0.0290  | -0.0556 | 0.0208  | 0.1351 | 0.0405  |
| 2952   | 3           | 0           | 10         | -0.0173 | 0.0604  | -0.0553 | 0.0399  | 0.1576 | 0.0921  |
| 2957   | 3           | 0           | 15         | -0.0303 | 0.1515  | -0.0565 | 0.0806  | 0.2583 | 0.2668  |

\* Indicates model was close to heave stop

TABLE 8.224.2 - NON-DIMENSIONAL STABILITY DATA IN BODY AXES AT TRANSOM

20 deg Deadrise, L/R = 0.234, Cv = 4

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | X'      | Y'      | Z'      | K'      | M'     | N'      |
|------|-------------|-------------|------------|---------|---------|---------|---------|--------|---------|
| 2988 | 3           | 10          | -15        | -0.0147 | -0.0629 | -0.0450 | -0.0358 | 0.1358 | -0.1404 |
| 2983 | 3           | 10          | -10        | -0.0228 | -0.0448 | -0.0487 | -0.0245 | 0.1338 | -0.1355 |
| 2979 | 3           | 10          | -5         | -0.0152 | -0.0113 | -0.0547 | -0.0083 | 0.1222 | -0.0447 |
| 2975 | 3           | 10          | 0          | -0.0121 | 0.0019  | -0.0571 | 0.0016  | 0.1081 | -0.0095 |
| 2992 | 3           | 10          | 5          | -0.0090 | 0.0138  | -0.0583 | 0.0113  | 0.0823 | 0.0140  |
| 2996 | 3           | 10          | 10         | -0.0083 | 0.0265  | -0.0606 | 0.0209  | 0.0670 | 0.0313  |
| 3000 | 3           | 10          | 15         | -0.0070 | 0.0364  | -0.0624 | 0.0268  | 0.0490 | 0.0411  |
| 3045 | 3           | 20          | -15        | -0.0188 | -0.0841 | -0.0285 | -0.0339 | 0.1221 | -0.2053 |
| 3040 | 3           | 20          | -10        | -0.0190 | -0.0541 | -0.0390 | -0.0258 | 0.1414 | -0.1531 |
| 3041 | 3           | 20          | -10        | -0.0193 | -0.0544 | -0.0396 | -0.0262 | 0.1429 | -0.1530 |
| 3036 | 3           | 20          | -5         | -0.0184 | -0.0150 | -0.0534 | -0.0100 | 0.1193 | -0.0511 |
| 3006 | 3           | 20          | 0          | -0.0129 | -0.0004 | -0.0588 | -0.0022 | 0.1078 | -0.0109 |
| 3010 | 3           | 20          | 5          | -0.0084 | 0.0042  | -0.0602 | 0.0012  | 0.0822 | 0.0000  |
| 3027 | 3           | 20          | 10         | -0.0061 | 0.0084  | -0.0624 | 0.0030  | 0.0666 | 0.0066  |
| 3028 | 3           | 20          | 10         | -0.0056 | 0.0076  | -0.0612 | 0.0025  | 0.0648 | 0.0058  |
| 3032 | 3           | 20          | 15         | -0.0043 | 0.0114  | -0.0625 | 0.0039  | 0.0504 | 0.0110  |
| 3201 | 6           | -10         | -15        | -0.0027 | -0.0056 | -0.0571 | 0.0001  | 0.0230 | -0.0025 |
| 3197 | 6           | -10         | -10        | -0.0042 | 0.0007  | -0.0561 | 0.0044  | 0.0315 | 0.0021  |
| 3193 | 6           | -10         | -5         | -0.0036 | 0.0081  | -0.0549 | 0.0100  | 0.0459 | 0.0101  |
| 3189 | 6           | -10         | 0          | -0.0065 | 0.0198  | -0.0531 | 0.0180  | 0.0671 | 0.0227  |
| 3205 | 6           | -10         | 5          | -0.0090 | 0.0433  | -0.0491 | 0.0314  | 0.0790 | 0.0458  |
| 3209 | 6           | -10         | 10         | -0.0103 | 0.0800  | -0.0427 | 0.0492  | 0.0977 | 0.0859  |
| 3109 | 6           | 0           | -15        | -0.0042 | -0.0150 | -0.0555 | -0.0098 | 0.0382 | -0.0127 |
| 3105 | 6           | 0           | -10        | -0.0032 | -0.0062 | -0.0555 | -0.0028 | 0.0329 | -0.0037 |
| 3100 | 6           | 0           | -5         | -0.0034 | 0.0029  | -0.0554 | 0.0048  | 0.0312 | 0.0043  |
| 3083 | 6           | 0           | 0          | -0.0033 | 0.0119  | -0.0555 | 0.0120  | 0.0325 | 0.0123  |
| 3087 | 6           | 0           | 5          | -0.0037 | 0.0201  | -0.0555 | 0.0188  | 0.0349 | 0.0194  |
| 3092 | 6           | 0           | 10         | -0.0047 | 0.0313  | -0.0556 | 0.0279  | 0.0423 | 0.0292  |
| 3096 | 6           | 0           | 15         | -0.0008 | 0.0246  | -0.0552 | 0.0213  | 0.0067 | 0.0149  |
| 3153 | 6           | 10          | -15        | -0.0097 | -0.0353 | -0.0507 | -0.0224 | 0.0787 | -0.0450 |
| 3149 | 6           | 10          | -10        | -0.0059 | -0.0122 | -0.0546 | -0.0092 | 0.0617 | -0.0149 |
| 3145 | 6           | 10          | -5         | -0.0045 | -0.0032 | -0.0562 | -0.0014 | 0.0400 | -0.0011 |
| 3128 | 6           | 10          | 0          | -0.0030 | 0.0044  | -0.0572 | 0.0040  | 0.0283 | 0.0072  |
| 3132 | 6           | 10          | 5          | -0.0028 | 0.0108  | -0.0583 | 0.0080  | 0.0215 | 0.0106  |
| 3137 | 6           | 10          | 10         | -0.0018 | 0.0156  | -0.0590 | 0.0113  | 0.0218 | 0.0130  |
| 3141 | 6           | 10          | 15         | -0.0023 | 0.0218  | -0.0602 | 0.0152  | 0.0117 | 0.0169  |
| 3171 | 6           | 20          | -15        | -0.0133 | -0.0819 | -0.0305 | -0.0395 | 0.0709 | -0.1328 |
| 3167 | 6           | 20          | -10        | -0.0097 | -0.0275 | -0.0498 | -0.0170 | 0.0752 | -0.0376 |
| 3163 | 6           | 20          | -5         | -0.0075 | -0.0053 | -0.0578 | -0.0058 | 0.0666 | -0.0089 |
| 3159 | 6           | 20          | 0          | -0.0050 | 0.0027  | -0.0603 | -0.0011 | 0.0495 | 0.0033  |
| 3175 | 6           | 20          | 5          | -0.0026 | -0.0027 | -0.0580 | -0.0032 | 0.0288 | 0.0027  |
| 3179 | 6           | 20          | 10         | -0.0025 | 0.0001  | -0.0590 | -0.0020 | 0.0190 | 0.0068  |
| 3183 | 6           | 20          | 15         | -0.0026 | 0.0025  | -0.0597 | -0.0007 | 0.0141 | 0.0090  |

\* Indicates model was close to heave stop

TABLE 9.101 - RUDDER DATA IN WIND AXES WITHOUT AIR TARES

Trim = 3 deg Roll = Yaw = 0 deg

10 deg Deadrise, L/R = 0.000, Cv = 1.5

| RUN  | Rudder deg | Speed fps | X lb | Y lb  | Z lb  | K lb-ft | M lb-ft | N lb-ft | Heave in | TD in |
|------|------------|-----------|------|-------|-------|---------|---------|---------|----------|-------|
| 2243 | -20        | 7.37      | 1.47 | -0.03 | 11.49 | -1.84   | -5.61   | 1.019   | 3.05     | 2.27  |
| 2224 | -15        | 7.37      | 1.53 | -0.42 | 11.49 | -0.97   | -4.89   | 1.462   | 2.97     | 2.35  |
| 2237 | -10        | 7.36      | 1.30 | -0.35 | 11.49 | -0.66   | -4.88   | 1.033   | 2.96     | 2.36  |
| 2240 | -5         | 7.38      | 1.20 | -0.17 | 11.49 | -0.32   | -4.91   | 0.529   | 2.95     | 2.37  |
| 2218 | 0          | 7.36      | 1.12 | 0.13  | 11.49 | 0.01    | -5.10   | -0.155  | 2.95     | 2.37  |
| 2221 | 15         | 7.38      | 1.57 | 0.34  | 11.49 | 1.14    | -4.94   | -1.284  | 2.97     | 2.35  |

TABLE 9.103 - RUDDER DATA IN WIND AXES WITHOUT AIR TARES

Trim = 3 deg Roll = Yaw = 0 deg

10 deg Deadrise, L/R = 0.000, Cv = 3.0

| RUN  | Rudder deg | Speed fps | X lb | Y lb  | Z lb  | K lb-ft | M lb-ft | N lb-ft | Heave in | TD in |
|------|------------|-----------|------|-------|-------|---------|---------|---------|----------|-------|
| 2244 | -20        | 14.74     | 2.77 | -0.28 | 11.49 | -2.10   | -8.43   | 2.512   | 3.88     | 1.44  |
| 2225 | -15        | 14.74     | 3.51 | -1.96 | 11.49 | 0.49    | -2.92   | 5.177   | 3.49     | 1.83  |
| 2238 | -10        | 14.73     | 2.48 | -1.62 | 11.49 | 0.49    | -2.36   | 3.728   | 3.47     | 1.85  |
| 2241 | -5         | 14.73     | 2.13 | -0.79 | 11.49 | 0.21    | -2.07   | 1.759   | 3.45     | 1.87  |
| 2219 | 0          | 14.75     | 2.13 | 0.32  | 11.49 | -0.10   | -2.25   | -0.547  | 3.44     | 1.88  |
| 2222 | 15         | 14.74     | 2.65 | 0.59  | 11.49 | 1.41    | -7.86   | -2.283  | 3.83     | 1.49  |

TABLE 9.104 - RUDDER DATA IN WIND AXES WITHOUT AIR TARES

Trim = 3 deg Roll = Yaw = 0 deg

10 deg Deadrise, L/R = 0.000, Cv = 4.0

| RUN  | Rudder deg | Speed fps | X lb | Y lb  | Z lb  | K lb-ft | M lb-ft | N lb-ft | Heave in | TD in |
|------|------------|-----------|------|-------|-------|---------|---------|---------|----------|-------|
| 2245 | -20        | 19.64     | 3.23 | -0.84 | 11.49 | -4.18   | -16.00  | 4.161   | 4.65     | 0.67  |
| 2246 | -20        | 19.62     | 3.28 | -0.87 | 11.49 | -4.15   | -15.94  | 4.234   | 4.64     | 0.68  |
| 2226 | -15        | 19.67     | 2.98 | -1.20 | 11.49 | -2.20   | -13.57  | 4.097   | 4.44     | 0.88  |
| 2236 | -15        | 19.66     | 2.90 | -1.19 | 11.49 | -2.17   | -13.78  | 4.080   | 4.45     | 0.87  |
| 2239 | -10        | 19.63     | 3.52 | -2.89 | 11.49 | 0.74    | -4.23   | 6.462   | 3.86     | 1.46  |
| 2242 | -5         | 19.66     | 2.80 | -1.40 | 11.49 | 0.37    | -3.68   | 3.108   | 3.91     | 1.41  |
| 2220 | 0          | 19.64     | 2.60 | 0.58  | 11.49 | -0.22   | -4.00   | -0.938  | 3.88     | 1.44  |
| 2223 | 15         | 19.67     | 3.19 | 1.51  | 11.49 | 2.69    | -15.36  | -3.935  | 4.58     | 0.74  |
| 2248 | -20        | 19.65     | 5.30 | -0.37 | 21.49 | -1.90   | -10.07  | 4.604   | 3.56     | 1.76  |
| 2249 | -15        | 19.67     | 7.26 | -3.28 | 21.49 | 3.28    | 3.90    | 9.387   | 2.95     | 2.37  |

TABLE 9.201 - RUDDER DATA IN WIND AXES WITHOUT AIR TARES

Trim = 3 deg Roll = Yaw = 0 deg

20 deg Deadrise, L/R = 0.000, Cv = 1.5

| RUN  | Rudder deg | Speed fps | X lb | Y lb  | Z lb  | K lb-ft | M lb-ft | N lb-ft | Heave in | TD in |
|------|------------|-----------|------|-------|-------|---------|---------|---------|----------|-------|
| 2177 | -20        | 7.36      | 1.31 | 0.17  | 11.49 | -2.26   | -6.62   | 0.576   | 2.72     | 2.60  |
| 2197 | -15        | 7.37      | 1.60 | -0.38 | 11.49 | -1.08   | -5.40   | 1.434   | 2.52     | 2.80  |
| 2200 | -10        | 7.37      | 1.41 | -0.40 | 11.49 | -0.63   | -5.45   | 1.217   | 2.52     | 2.80  |
| 2203 | -5         | 7.38      | 1.25 | -0.23 | 11.49 | -0.30   | -5.47   | 0.641   | 2.53     | 2.79  |
| 2173 | 0          | 7.37      | 1.20 | 0.04  | 11.49 | -0.00   | -5.43   | -0.001  | 2.61     | 2.71  |
| 2182 | 20         | 7.37      | 1.30 | -0.18 | 11.49 | 2.30    | -6.61   | -0.465  | 2.72     | 2.60  |

TABLE 9.203 - RUDDER DATA IN WIND AXES WITHOUT AIR TARES

Trim = 3 deg Roll = Yaw = 0 deg

20 deg Deadrise, L/R = 0.000, Cv = 3.0

| RUN  | Rudder deg | Speed fps | X lb | Y lb  | Z lb  | K lb-ft | M lb-ft | N lb-ft | Heave in | TD in |
|------|------------|-----------|------|-------|-------|---------|---------|---------|----------|-------|
| 2178 | -20        | 14.73     | 2.24 | 0.32  | 11.49 | -4.55   | -13.56  | 1.198   | 3.99     | 1.33  |
| 2198 | -15        | 14.72     | 3.83 | -1.67 | 11.49 | 0.24    | -3.96   | 5.063   | 3.07     | 2.25  |
| 2201 | -10        | 14.77     | 3.05 | -1.77 | 11.49 | 0.43    | -3.66   | 4.410   | 3.06     | 2.26  |
| 2204 | -5         | 14.77     | 2.52 | -0.92 | 11.49 | 0.28    | -3.52   | 2.309   | 3.06     | 2.26  |
| 2174 | 0          | 14.73     | 2.31 | 0.15  | 11.49 | -0.01   | -3.55   | -0.074  | 3.15     | 2.17  |
| 2183 | 20         | 14.73     | 2.31 | -0.17 | 11.49 | 4.61    | -13.37  | -0.959  | 3.96     | 1.36  |

TABLE 9.204 - RUDDER DATA IN WIND AXES WITHOUT AIR TARES

Trim = 3 deg Roll = Yaw = 0 deg

20 deg Deadrise, L/R = 0.000, Cv = 4.0

| RUN  | Rudder deg | Speed fps | X lb | Y lb  | Z lb  | K lb-ft | M lb-ft | N lb-ft | Heave in | TD in |
|------|------------|-----------|------|-------|-------|---------|---------|---------|----------|-------|
| 2179 | -20        | 19.64     | 2.38 | 0.14  | 11.49 | -5.68   | -17.39  | 1.722   | 4.64     | 0.68  |
| 2199 | -15        | 19.63     | 5.84 | -3.21 | 11.49 | 0.51    | -6.12   | 8.819   | 3.52     | 1.80  |
| 2209 | -15        | 19.64     | 5.71 | -3.22 | 11.49 | 0.56    | -5.71   | 8.823   | 3.48     | 1.84  |
| 2202 | -10        | 19.67     | 4.46 | -3.24 | 11.49 | 0.75    | -5.30   | 7.523   | 3.42     | 1.90  |
| 2206 | -5         | 19.66     | 3.49 | -1.64 | 11.49 | 0.55    | -5.20   | 3.903   | 3.48     | 1.84  |
| 2175 | 0          | 19.61     | 3.28 | 0.36  | 11.49 | -0.07   | -5.00   | -0.328  | 3.53     | 1.79  |
| 2207 | 15         | 19.68     | 4.66 | 1.55  | 11.49 | 1.43    | -10.31  | -4.589  | 3.76     | 1.56  |
| 2208 | 15         | 19.67     | 5.86 | 3.34  | 11.49 | 0.46    | -5.85   | -8.057  | 3.50     | 1.82  |
| 2184 | 20         | 19.62     | 2.47 | 0.14  | 11.49 | 5.74    | -17.25  | -1.537  | 4.64     | 0.68  |
| 2185 | 20         | 19.72     | 2.48 | 0.15  | 11.49 | 5.89    | -17.33  | -1.544  | 4.65     | 0.67  |
| 2195 | 20         | 19.63     | 2.46 | 0.14  | 11.49 | 5.82    | -17.53  | -1.545  | 4.62     | 0.70  |



TABLE 10.101 - RUDDER DATA IN BODY AXES AT PIVOT

Trim = 3 deg Roll = Yaw = 0 deg

10 deg Deadrise, L/R = 0.000, Cv = 1.5

| RUN  | Rudder<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|------|---------------|---------|---------|---------|------------|------------|------------|
| 2243 | -20           | -0.87   | -0.03   | -11.55  | -1.89      | -5.61      | 0.921      |
| 2224 | -15           | -0.93   | -0.42   | -11.55  | -1.05      | -4.89      | 1.409      |
| 2237 | -10           | -0.70   | -0.35   | -11.54  | -0.72      | -4.88      | 0.997      |
| 2240 | -5            | -0.60   | -0.17   | -11.54  | -0.35      | -4.91      | 0.511      |
| 2218 | 0             | -0.52   | 0.13    | -11.53  | 0.02       | -5.10      | -0.155     |
| 2221 | 15            | -0.97   | 0.34    | -11.56  | 1.20       | -4.94      | -1.223     |

TABLE 10.103 - RUDDER DATA IN BODY AXES AT PIVOT

Trim = 3 deg Roll = Yaw = 0 deg

10 deg Deadrise, L/R = 0.000, Cv = 3.0

| RUN  | Rudder<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|------|---------------|---------|---------|---------|------------|------------|------------|
| 2244 | -20           | -2.16   | -0.28   | -11.62  | -2.23      | -8.43      | 2.398      |
| 2225 | -15           | -2.90   | -1.96   | -11.66  | 0.22       | -2.92      | 5.195      |
| 2238 | -10           | -1.87   | -1.62   | -11.60  | 0.29       | -2.36      | 3.748      |
| 2241 | -5            | -1.52   | -0.79   | -11.59  | 0.12       | -2.07      | 1.768      |
| 2219 | 0             | -1.52   | 0.32    | -11.59  | -0.07      | -2.25      | -0.552     |
| 2222 | 15            | -2.04   | 0.59    | -11.61  | 1.53       | -7.86      | -2.206     |

TABLE 10.104 - RUDDER DATA IN BODY AXES AT PIVOT

Trim = 3 deg Roll = Yaw = 0 deg

10 deg Deadrise, L/R = 0.000, Cv = 4.0

| RUN  | Rudder<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|------|---------------|---------|---------|---------|------------|------------|------------|
| 2245 | -20           | -2.62   | -0.84   | -11.64  | -4.39      | -16.00     | 3.936      |
| 2246 | -20           | -2.67   | -0.87   | -11.65  | -4.37      | -15.94     | 4.011      |
| 2226 | -15           | -2.37   | -1.20   | -11.63  | -2.41      | -13.57     | 3.976      |
| 2236 | -15           | -2.29   | -1.19   | -11.63  | -2.38      | -13.78     | 3.961      |
| 2239 | -10           | -2.91   | -2.89   | -11.66  | 0.40       | -4.23      | 6.492      |
| 2242 | -5            | -2.19   | -1.40   | -11.62  | 0.21       | -3.68      | 3.124      |
| 2220 | 0             | -2.00   | 0.58    | -11.61  | -0.17      | -4.00      | -0.949     |
| 2223 | 15            | -2.58   | 1.51    | -11.64  | 2.89       | -15.36     | -3.789     |
| 2248 | -20           | -4.17   | -0.37   | -21.74  | -2.14      | -10.07     | 4.498      |
| 2249 | -15           | -6.12   | -3.28   | -21.84  | 2.78       | 3.90       | 9.546      |

TABLE 10.201 - RUDDER DATA IN BODY AXES AT PIVOT

Trim = 3 deg Roll = Yaw = 0 deg

20 deg Deadrise, L/R = 0.000, Cv = 1.5

| RUN  | Rudder<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|------|---------------|---------|---------|---------|------------|------------|------------|
| 2177 | -20           | -0.71   | 0.17    | -11.54  | -2.29      | -6.62      | 0.457      |
| 2197 | -15           | -1.00   | -0.38   | -11.56  | -1.16      | -5.40      | 1.375      |
| 2200 | -10           | -0.81   | -0.40   | -11.55  | -0.70      | -5.45      | 1.183      |
| 2203 | -5            | -0.65   | -0.23   | -11.54  | -0.34      | -5.47      | 0.625      |
| 2173 | 0             | -0.60   | 0.04    | -11.54  | -0.00      | -5.43      | -0.001     |

TABLE 10.203 - RUDDER DATA IN BODY AXES AT PIVOT

Trim = 3 deg Roll = Yaw = 0 deg

20 deg Deadrise, L/R = 0.000, Cv = 3.0

| RUN  | Rudder<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|------|---------------|---------|---------|---------|------------|------------|------------|
| 2182 | 20            | -0.70   | -0.18   | -11.54  | 2.32       | -6.61      | -0.344     |
| 2178 | -20           | -1.63   | 0.32    | -11.59  | -4.61      | -13.56     | 0.958      |
| 2198 | -15           | -3.22   | -1.67   | -11.67  | -0.03      | -3.96      | 5.069      |
| 2201 | -10           | -2.44   | -1.77   | -11.63  | 0.20       | -3.66      | 4.427      |
| 2204 | -5            | -1.91   | -0.92   | -11.61  | 0.16       | -3.52      | 2.321      |
| 2174 | 0             | -1.70   | 0.15    | -11.60  | -0.01      | -3.55      | -0.075     |
| 2183 | 20            | -1.70   | -0.17   | -11.60  | 4.65       | -13.37     | -0.717     |

TABLE 10.204 - RUDDER DATA IN BODY AXES AT PIVOT

Trim = 3 deg Roll = Yaw = 0 deg

20 deg Deadrise, L/R = 0.000, Cv = 4.0

| RUN  | Rudder<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|------|---------------|---------|---------|---------|------------|------------|------------|
| 2179 | -20           | -1.78   | 0.14    | -11.60  | -5.76      | -17.39     | 1.422      |
| 2199 | -15           | -5.23   | -3.21   | -11.78  | 0.05       | -6.12      | 8.834      |
| 2209 | -15           | -5.10   | -3.22   | -11.77  | 0.10       | -5.71      | 8.840      |
| 2202 | -10           | -3.85   | -3.24   | -11.71  | 0.35       | -5.30      | 7.552      |
| 2206 | -5            | -2.88   | -1.64   | -11.66  | 0.34       | -5.20      | 3.927      |
| 2175 | 0             | -2.67   | 0.36    | -11.65  | -0.05      | -5.00      | -0.331     |
| 2207 | 15            | -4.05   | 1.55    | -11.72  | 1.67       | -10.31     | -4.508     |
| 2208 | 15            | -5.25   | 3.34    | -11.78  | 0.88       | -5.85      | -8.022     |
| 2184 | 20            | -1.87   | 0.14    | -11.60  | 5.81       | -17.25     | -1.234     |
| 2185 | 20            | -1.87   | 0.15    | -11.60  | 5.96       | -17.33     | -1.234     |
| 2195 | 20            | -1.86   | 0.14    | -11.60  | 5.89       | -17.53     | -1.238     |

TABLE 11.101 - RUDDER DATA IN BODY AXES AT TRANSOM

Trim = 3 deg Roll = Yaw = 0 deg

10 deg Deadrise, L/R = 0.000, Cv = 1.5

| RUN  | Rudder deg | X lb  | Y lb  | Z lb   | K lb-ft | M lb-ft | N lb-ft |
|------|------------|-------|-------|--------|---------|---------|---------|
| 2243 | -20        | -0.87 | -0.03 | -11.55 | -1.90   | 16.35   | 0.865   |
| 2224 | -15        | -0.93 | -0.42 | -11.55 | -1.19   | 17.10   | 0.622   |
| 2237 | -10        | -0.70 | -0.35 | -11.54 | -0.84   | 17.00   | 0.341   |
| 2240 | -5         | -0.60 | -0.17 | -11.54 | -0.41   | 16.93   | 0.193   |
| 2218 | 0          | -0.52 | 0.13  | -11.53 | 0.06    | 16.70   | 0.089   |
| 2221 | 15         | -0.97 | 0.34  | -11.56 | 1.32    | 17.06   | -0.586  |

TABLE 11.103 - RUDDER DATA IN BODY AXES AT TRANSOM

Trim = 3 deg Roll = Yaw = 0 deg

10 deg Deadrise, L/R = 0.000, Cv = 3.0

| RUN  | Rudder deg | X lb  | Y lb  | Z lb   | K lb-ft | M lb-ft | N lb-ft |
|------|------------|-------|-------|--------|---------|---------|---------|
| 2244 | -20        | -2.16 | -0.28 | -11.62 | -2.33   | 14.10   | 1.873   |
| 2225 | -15        | -2.90 | -1.96 | -11.66 | -0.46   | 19.94   | 1.520   |
| 2238 | -10        | -1.87 | -1.62 | -11.60 | -0.27   | 20.05   | 0.711   |
| 2241 | -5         | -1.52 | -0.79 | -11.59 | -0.16   | 20.18   | 0.286   |
| 2219 | 0          | -1.52 | 0.32  | -11.59 | 0.04    | 20.00   | 0.048   |
| 2222 | 15         | -2.04 | 0.59  | -11.61 | 1.73    | 14.62   | -1.100  |

TABLE 11.104 - RUDDER DATA IN BODY AXES AT TRANSOM

Trim = 3 deg Roll = Yaw = 0 deg

10 deg Deadrise, L/R = 0.000, Cv = 4.0

| RUN  | Rudder deg | X lb  | Y lb  | Z lb   | K lb-ft | M lb-ft | N lb-ft |
|------|------------|-------|-------|--------|---------|---------|---------|
| 2245 | -20        | -2.62 | -0.84 | -11.64 | -4.68   | 6.74    | 2.361   |
| 2246 | -20        | -2.67 | -0.87 | -11.65 | -4.67   | 6.82    | 2.380   |
| 2226 | -15        | -2.37 | -1.20 | -11.63 | -2.83   | 9.06    | 1.726   |
| 2236 | -15        | -2.29 | -1.19 | -11.63 | -2.79   | 8.81    | 1.730   |
| 2239 | -10        | -2.91 | -2.89 | -11.66 | -0.60   | 18.64   | 1.074   |
| 2242 | -5         | -2.19 | -1.40 | -11.62 | -0.28   | 18.87   | 0.499   |
| 2220 | 0          | -2.00 | 0.58  | -11.61 | 0.03    | 18.46   | 0.139   |
| 2223 | 15         | -2.58 | 1.51  | -11.64 | 3.41    | 7.36    | -0.957  |
| 2248 | -20        | -4.17 | -0.37 | -21.74 | -2.27   | 32.13   | 3.805   |
| 2249 | -15        | -6.12 | -3.28 | -21.84 | 1.65    | 46.97   | 3.396   |

TABLE 11.201 - RUDDER DATA IN BODY AXES AT TRANSOM

Trim = 3 deg Roll = Yaw = 0 deg

20 deg Deadrise, L/R = 0.000, Cv = 1.5

| RUN  | Rudder<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|------|---------------|---------|---------|---------|------------|------------|------------|
| 2177 | -20           | -0.71   | 0.17    | -11.54  | -2.23      | 15.27      | 0.776      |
| 2197 | -15           | -1.00   | -0.38   | -11.56  | -1.29      | 16.62      | 0.663      |
| 2200 | -10           | -0.81   | -0.40   | -11.55  | -0.83      | 16.48      | 0.433      |
| 2203 | -5            | -0.65   | -0.23   | -11.54  | -0.42      | 16.39      | 0.194      |
| 2173 | 0             | -0.60   | 0.04    | -11.54  | 0.01       | 16.41      | 0.074      |
| 2182 | 20            | -0.70   | -0.18   | -11.54  | 2.26       | 15.27      | -0.682     |

TABLE 11.203 - RUDDER DATA IN BODY AXES AT TRANSOM

Trim = 3 deg Roll = Yaw = 0 deg

20 deg Deadrise, L/R = 0.000, Cv = 3.0

| RUN  | Rudder<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|------|---------------|---------|---------|---------|------------|------------|------------|
| 2178 | -20           | -1.63   | 0.32    | -11.59  | -4.50      | 8.74       | 1.558      |
| 2198 | -15           | -3.22   | -1.67   | -11.67  | -0.60      | 19.04      | 1.938      |
| 2201 | -10           | -2.44   | -1.77   | -11.63  | -0.41      | 19.00      | 1.108      |
| 2204 | -5            | -1.91   | -0.92   | -11.61  | -0.16      | 18.90      | 0.596      |
| 2174 | 0             | -1.70   | 0.15    | -11.60  | 0.05       | 18.78      | 0.207      |
| 2183 | 20            | -1.70   | -0.17   | -11.60  | 4.60       | 8.96       | -1.035     |

TABLE 11.204 - RUDDER DATA IN BODY AXES AT TRANSOM

Trim = 3 deg Roll = Yaw = 0 deg

20 deg Deadrise, L/R = 0.000, Cv = 4.0

| RUN  | Rudder<br>deg | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft |
|------|---------------|---------|---------|---------|------------|------------|------------|
| 2179 | -20           | -1.78   | 0.14    | -11.60  | -5.71      | 4.97       | 1.685      |
| 2199 | -15           | -5.23   | -3.21   | -11.78  | -1.06      | 17.78      | 2.815      |
| 2209 | -15           | -5.10   | -3.22   | -11.77  | -1.02      | 18.13      | 2.802      |
| 2202 | -10           | -3.85   | -3.24   | -11.71  | -0.77      | 17.98      | 1.477      |
| 2206 | -5            | -2.88   | -1.64   | -11.66  | -0.22      | 17.65      | 0.852      |
| 2175 | 0             | -2.67   | 0.36    | -11.65  | 0.07       | 17.76      | 0.344      |
| 2207 | 15            | -4.05   | 1.55    | -11.72  | 2.20       | 13.06      | -1.602     |
| 2208 | 15            | -5.25   | 3.34    | -11.78  | 2.04       | 18.05      | -1.760     |
| 2184 | 20            | -1.87   | 0.14    | -11.60  | 5.86       | 5.15       | -0.972     |
| 2185 | 20            | -1.87   | 0.15    | -11.60  | 6.01       | 5.08       | -0.952     |
| 2195 | 20            | -1.86   | 0.14    | -11.60  | 5.94       | 4.87       | -0.976     |

TABLE 12.101 - NON-DIMENSIONAL RUDDER DATA IN BODY AXES AT TRANSOM

Trim = 3 deg Roll = Yaw = 0 deg

10 deg Deadrise, L/R = 0.000, Cv = 1.5

| RUN  | Rudder deg | X'      | Y'      | Z'      | K'      | M'     | N'      |
|------|------------|---------|---------|---------|---------|--------|---------|
| 2243 | -20        | -0.0294 | -0.0010 | -0.3906 | -0.0858 | 0.7371 | 0.0390  |
| 2224 | -15        | -0.0314 | -0.0142 | -0.3907 | -0.0538 | 0.7708 | 0.0280  |
| 2237 | -10        | -0.0237 | -0.0119 | -0.3913 | -0.0378 | 0.7687 | 0.0154  |
| 2240 | -5         | -0.0202 | -0.0057 | -0.3891 | -0.0184 | 0.7612 | 0.0087  |
| 2218 | 0          | -0.0176 | 0.0044  | -0.3910 | 0.0027  | 0.7551 | 0.0040  |
| 2221 | 15         | -0.0327 | 0.0115  | -0.3897 | 0.0594  | 0.7672 | -0.0263 |

TABLE 12.103 - NON-DIMENSIONAL RUDDER DATA IN BODY AXES AT TRANSOM

Trim = 3 deg Roll = Yaw = 0 deg

10 deg Deadrise, L/R = 0.000, Cv = 3.0

| RUN  | Rudder deg | X'      | Y'      | Z'      | K'      | M'     | N'      |
|------|------------|---------|---------|---------|---------|--------|---------|
| 2244 | -20        | -0.0183 | -0.0024 | -0.0982 | -0.0262 | 0.1590 | 0.0211  |
| 2225 | -15        | -0.0245 | -0.0166 | -0.0985 | -0.0052 | 0.2248 | 0.0171  |
| 2238 | -10        | -0.0159 | -0.0137 | -0.0982 | -0.0030 | 0.2262 | 0.0080  |
| 2241 | -5         | -0.0129 | -0.0067 | -0.0981 | -0.0018 | 0.2278 | 0.0032  |
| 2219 | 0          | -0.0129 | 0.0027  | -0.0978 | 0.0004  | 0.2251 | 0.0005  |
| 2222 | 15         | -0.0173 | 0.0050  | -0.0982 | 0.0195  | 0.1648 | -0.0124 |

TABLE 12.104 - NON-DIMENSIONAL RUDDER DATA IN BODY AXES AT TRANSOM

Trim = 3 deg Roll = Yaw = 0 deg

10 deg Deadrise, L/R = 0.000, Cv = 4.0

| RUN  | Rudder deg | X'      | Y'      | Z'      | K'      | M'     | N'      |
|------|------------|---------|---------|---------|---------|--------|---------|
| 2245 | -20        | -0.0125 | -0.0040 | -0.0554 | -0.0297 | 0.0428 | 0.0150  |
| 2246 | -20        | -0.0128 | -0.0042 | -0.0556 | -0.0297 | 0.0434 | 0.0151  |
| 2226 | -15        | -0.0113 | -0.0057 | -0.0552 | -0.0179 | 0.0573 | 0.0109  |
| 2236 | -15        | -0.0109 | -0.0057 | -0.0552 | -0.0177 | 0.0558 | 0.0110  |
| 2239 | -10        | -0.0139 | -0.0138 | -0.0556 | -0.0038 | 0.1184 | 0.0068  |
| 2242 | -5         | -0.0104 | -0.0067 | -0.0552 | -0.0018 | 0.1195 | 0.0032  |
| 2220 | 0          | -0.0095 | 0.0028  | -0.0553 | 0.0002  | 0.1172 | 0.0009  |
| 2223 | 15         | -0.0123 | 0.0072  | -0.0553 | 0.0216  | 0.0466 | -0.0061 |
| 2248 | -20        | -0.0198 | -0.0018 | -0.1034 | -0.0144 | 0.2038 | 0.0241  |
| 2249 | -15        | -0.0291 | -0.0156 | -0.1037 | 0.0104  | 0.2973 | 0.0215  |

TABLE 12.201 - NON-DIMENSIONAL RUDDER DATA IN BODY AXES AT TRANSOM

Trim = 3 deg Roll = Yaw = 0 deg

20 deg Deadrise, L/R = 0.000, Cv = 1.5

| RUN  | Rudder deg | X'      | Y'      | Z'      | K'      | M'     | N'      |
|------|------------|---------|---------|---------|---------|--------|---------|
| 2177 | -20        | -0.0240 | 0.0058  | -0.3914 | -0.1008 | 0.6902 | 0.0351  |
| 2197 | -15        | -0.0338 | -0.0128 | -0.3908 | -0.0580 | 0.7492 | 0.0299  |
| 2200 | -10        | -0.0273 | -0.0135 | -0.3905 | -0.0376 | 0.7431 | 0.0195  |
| 2203 | -5         | -0.0219 | -0.0078 | -0.3891 | -0.0187 | 0.7370 | 0.0087  |
| 2173 | 0          | -0.0203 | 0.0014  | -0.3901 | 0.0005  | 0.7398 | 0.0033  |
| 2182 | 20         | -0.0236 | -0.0061 | -0.3903 | 0.1017  | 0.6886 | -0.0307 |

TABLE 12.203 - NON-DIMENSIONAL RUDDER DATA IN BODY AXES AT TRANSOM

Trim = 3 deg Roll = Yaw = 0 deg

20 deg Deadrise, L/R = 0.000, Cv = 3.0

| RUN  | Rudder deg | X'      | Y'      | Z'      | K'      | M'     | N'      |
|------|------------|---------|---------|---------|---------|--------|---------|
| 2178 | -20        | -0.0138 | 0.0027  | -0.0981 | -0.0507 | 0.0986 | 0.0176  |
| 2198 | -15        | -0.0273 | -0.0142 | -0.0990 | -0.0068 | 0.1152 | 0.0219  |
| 2201 | -10        | -0.0206 | -0.0149 | -0.0979 | -0.0046 | 0.2133 | 0.0124  |
| 2204 | -5         | -0.0161 | -0.0077 | -0.0977 | -0.0018 | 0.2122 | 0.0067  |
| 2174 | 0          | -0.0144 | 0.0013  | -0.0982 | 0.0005  | 0.2120 | 0.0023  |
| 2183 | 20         | -0.0144 | -0.0014 | -0.0982 | 0.0519  | 0.1011 | -0.0117 |

TABLE 12.204 - NON-DIMENSIONAL RUDDER DATA IN BODY AXES AT TRANSOM

Trim = 3 deg Roll = Yaw = 0 deg

20 deg Deadrise, L/R = 0.000, Cv = 4.0

| RUN  | Rudder deg | X'      | Y'      | Z'      | K'      | M'     | N'      |
|------|------------|---------|---------|---------|---------|--------|---------|
| 2179 | -20        | -0.0085 | 0.0007  | -0.0552 | -0.0363 | 0.0316 | 0.0107  |
| 2199 | -15        | -0.0249 | -0.0153 | -0.0561 | -0.0067 | 0.1130 | 0.0179  |
| 2209 | -15        | -0.0243 | -0.0153 | -0.0561 | -0.0065 | 0.1151 | 0.0178  |
| 2202 | -10        | -0.0183 | -0.0154 | -0.0556 | -0.0048 | 0.1138 | 0.0094  |
| 2206 | -5         | -0.0137 | -0.0078 | -0.0554 | -0.0014 | 0.1118 | 0.0054  |
| 2175 | 0          | -0.0128 | 0.0017  | -0.0556 | 0.0005  | 0.1131 | 0.0022  |
| 2207 | 15         | -0.0192 | 0.0074  | -0.0556 | 0.0139  | 0.0826 | -0.0101 |
| 2208 | 15         | -0.0249 | 0.0159  | -0.0559 | 0.0129  | 0.1143 | -0.0111 |
| 2184 | 20         | -0.0089 | 0.0007  | -0.0554 | 0.0373  | 0.0328 | -0.0062 |
| 2185 | 20         | -0.0088 | 0.0007  | -0.0548 | 0.0379  | 0.0320 | -0.0060 |
| 2195 | 20         | -0.0088 | 0.0007  | -0.0553 | 0.0378  | 0.0309 | -0.0062 |

## APPENDIX A

TABLE A1.100.1 - STABILITY DATA IN WIND AXES WITH AIR TARES

10 deg Deadrise, L/R = 0.000, Cv = 0

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 2112 | -2          | -10         | 0          | 0            | 0.04    | -0.02   | 11.49   | 0.58       | 1.03       | 0.00       | 2.60        | 0.70     |
| 2116 | -2          | -10         | 5          | 0            | 0.04    | -0.04   | 11.49   | 0.50       | 1.08       | 0.02       | 2.57        | 0.73     |
| 2120 | -2          | -10         | 10         | 0            | 0.02    | -0.04   | 11.49   | 0.41       | 1.09       | -0.01      | 2.57        | 0.73     |
| 2122 | -2          | -10         | 15         | 0            | 0.02    | -0.10   | 11.49   | 0.26       | 1.16       | -0.01      | 2.57        | 0.73     |
| 2059 | -2          | 0           | 0          | 0            | 0.04    | -0.07   | 11.49   | 0.02       | 1.44       | 0.01       | 2.63        | 0.73     |
| 2065 | -2          | 0           | 5          | 0            | 0.04    | -0.08   | 11.49   | -0.13      | 1.39       | 0.02       | 2.59        | 0.77     |
| 2069 | -2          | 0           | 10         | 0            | 0.03    | -0.07   | 11.49   | -0.21      | 1.32       | -0.01      | 2.59        | 0.77     |
| 2070 | -2          | 0           | 15         | 0            | 0.02    | -0.09   | 11.49   | -0.36      | 1.30       | 0.00       | 2.61        | 0.75     |
| 2074 | -2          | 10          | 0          | 0            | 0.04    | -0.05   | 11.49   | -0.54      | 0.85       | 0.03       | 2.62        | 0.68     |
| 2078 | -2          | 10          | 5          | 0            | 0.04    | -0.03   | 11.49   | -0.59      | 0.83       | 0.01       | 2.61        | 0.69     |
| 2081 | -2          | 10          | 10         | 0            | -0.00   | -0.08   | 11.49   | -0.74      | 0.73       | 0.00       | 2.60        | 0.70     |
| 2083 | -2          | 10          | 15         | 0            | -0.00   | -0.08   | 11.49   | -0.80      | 0.68       | -0.02      | 2.60        | 0.70     |
| 2090 | -2          | 20          | 0          | 0            | 0.00    | -0.01   | 11.49   | -0.70      | 0.26       | 0.03       | 2.64        | 0.47     |
| 2094 | -2          | 20          | 5          | 0            | 0.02    | -0.09   | 11.49   | -0.82      | 0.28       | 0.01       | 2.61        | 0.50     |
| 2098 | -2          | 20          | 10         | 0            | 0.03    | -0.10   | 11.49   | -0.79      | 0.18       | 0.01       | 2.57        | 0.54     |
| 2108 | -2          | 20          | 12         | 0            | 0.02    | -0.08   | 11.49   | -0.79      | 0.16       | 0.01       | 2.61        | 0.50     |
| 2101 | -2          | 20          | 15         | 0            | 0.01    | -0.08   | 11.49   | -0.81      | 0.08       | 0.00       | 2.59        | 0.52     |
| 1829 | 0           | -10         | 0          | 0            | 0.00    | -0.02   | 11.49   | 0.58       | -3.40      | 0.02       | 2.65        | 1.34     |
| 1833 | 0           | -10         | 5          | 0            | -0.01   | -0.01   | 11.49   | 0.88       | -3.36      | 0.02       | 2.65        | 1.34     |
| 1837 | 0           | -10         | 10         | 0            | -0.00   | -0.01   | 11.49   | 1.14       | -3.20      | 0.01       | 2.64        | 1.35     |
| 1843 | 0           | -10         | 15         | 0            | -0.00   | -0.01   | 11.49   | 1.44       | -3.16      | 0.01       | 2.66        | 1.33     |
| 1760 | 0           | 0           | 0          | 0            | -0.01   | 0.00    | 11.49   | -0.03      | -3.71      | 0.01       | 2.61        | 1.36     |
| 1764 | 0           | 0           | 5          | 0            | -0.02   | -0.02   | 11.49   | 0.27       | -3.71      | 0.01       | 2.60        | 1.37     |
| 1768 | 0           | 0           | 10         | 0            | -0.01   | -0.02   | 11.49   | 0.60       | -3.64      | 0.01       | 2.61        | 1.36     |
| 1773 | 0           | 0           | 15         | 0            | 0.00    | 0.01    | 11.49   | 0.95       | -3.57      | 0.01       | 2.59        | 1.38     |
| 1779 | 0           | 10          | 0          | 0            | -0.01   | 0.01    | 11.49   | -0.61      | -3.79      | 0.05       | 2.56        | 1.35     |
| 1783 | 0           | 10          | 5          | 0            | 0.02    | -0.02   | 11.49   | -0.32      | -3.77      | 0.01       | 2.57        | 1.34     |
| 1787 | 0           | 10          | 10         | 0            | -0.00   | -0.02   | 11.49   | -0.02      | -3.76      | 0.01       | 2.58        | 1.33     |
| 1792 | 0           | 10          | 15         | 0            | -0.00   | -0.01   | 11.49   | 0.32       | -3.79      | 0.00       | 2.58        | 1.33     |
| 1809 | 0           | 21          | 0          | 0            | -0.11   | 0.04    | 11.49   | -0.77      | -3.75      | 0.08       | 2.68        | 1.09     |
| 1814 | 0           | 21          | 5          | 0            | 0.00    | 0.01    | 11.49   | -0.47      | -3.71      | 0.02       | 2.69        | 1.08     |
| 1819 | 0           | 21          | 10         | 0            | 0.02    | -0.00   | 11.49   | -0.15      | -3.69      | 0.00       | 2.70        | 1.07     |
| 1823 | 0           | 21          | 15         | 0            | 0.01    | -0.04   | 11.49   | 0.09       | -3.62      | -0.02      | 2.72        | 1.05     |
| 1918 | 3           | -11         | 0          | 0            | -0.09   | 0.04    | 11.49   | 0.45       | -8.88      | 0.03       | 2.79        | 2.23     |
| 1922 | 3           | -11         | 5          | 0            | -0.02   | 0.08    | 11.49   | 1.25       | -8.78      | 0.04       | 2.81        | 2.21     |
| 1926 | 3           | -11         | 10         | 0            | -0.01   | 0.09    | 11.49   | 2.02       | -8.70      | 0.03       | 2.80        | 2.22     |
| 1930 | 3           | -11         | 15         | 0            | -0.03   | 0.07    | 11.49   | 2.76       | -8.54      | 0.04       | 2.81        | 2.21     |
| 1850 | 3           | 0           | 0          | 0            | -0.01   | 0.04    | 11.49   | -0.03      | -9.53      | 0.05       | 2.81        | 2.40     |
| 1854 | 3           | 0           | 0          | 0            | -0.01   | 0.03    | 11.49   | -0.03      | -9.49      | 0.04       | 2.90        | 2.31     |
| 1856 | 3           | 0           | 5          | 0            | -0.01   | 0.01    | 11.49   | 0.76       | -9.43      | 0.04       | 2.90        | 2.31     |
| 1860 | 3           | 0           | 10         | 0            | -0.01   | 0.03    | 11.49   | 1.58       | -9.30      | 0.03       | 2.91        | 2.30     |
| 1864 | 3           | 0           | 15         | 0            | -0.02   | 0.01    | 11.49   | 2.36       | -9.10      | 0.04       | 2.90        | 2.31     |

\* Indicates model was close to heave stop

TABLE A1.100.2 - STABILITY DATA IN WIND AXES WITH AIR TARES

10 deg Deadrise, L/R = 0.000, Cv = 0

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 1880 | 3           | 10          | 0          | 0            | -0.02   | 0.07    | 11.49   | -0.45      | -9.09      | 0.06       | 2.79        | 2.23     |
| 1884 | 3           | 10          | 5          | 0            | -0.03   | -0.04   | 11.49   | 0.21       | -9.09      | 0.06       | 2.80        | 2.22     |
| 1888 | 3           | 10          | 10         | 0            | -0.02   | 0.06    | 11.49   | 1.13       | -9.10      | 0.05       | 2.80        | 2.22     |
| 1894 | 3           | 10          | 15         | 0            | -0.02   | 0.01    | 11.49   | 1.83       | -8.83      | 0.02       | 2.84        | 2.18     |
| 1900 | 3           | 21          | 0          | 0            | -0.02   | 0.02    | 11.49   | -0.76      | -8.55      | 0.05       | 2.82        | 2.01     |
| 1904 | 3           | 21          | 5          | 0            | -0.02   | 0.02    | 11.49   | -0.00      | -8.60      | 0.01       | 2.83        | 2.00     |
| 1908 | 3           | 21          | 10         | 0            | -0.02   | 0.01    | 11.49   | 0.74       | -8.54      | 0.02       | 2.83        | 2.00     |
| 1912 | 3           | 21          | 15         | 0            | 0.01    | 0.07    | 11.49   | 1.55       | -8.48      | 0.03       | 2.84        | 1.99     |
| 2022 | 6           | -10         | 0          | 0            | -0.02   | 0.06    | 11.49   | 0.29       | -12.00     | 0.08       | 3.22        | 3.08     |
| 2026 | 6           | -10         | 5          | 0            | 0.00    | 0.02    | 11.49   | 1.30       | -11.96     | 0.04       | 3.21        | 3.09     |
| 2030 | 6           | -10         | 10         | 0            | -0.00   | -0.01   | 11.49   | 2.31       | -11.86     | 0.03       | 3.21        | 3.09     |
| 2034 | 6           | -10         | 15         | 0            | -0.02   | -0.00   | 11.49   | 3.33       | -11.53     | 0.03       | 3.22        | 3.08     |
| 1963 | 6           | 0           | 0          | 0            | 0.01    | 0.03    | 11.49   | -0.04      | -12.18     | 0.08       | 3.18        | 3.05     |
| 1967 | 6           | 0           | 5          | 0            | 0.00    | 0.01    | 11.49   | 1.01       | -12.24     | 0.07       | 3.18        | 3.05     |
| 1972 | 6           | 0           | 10         | 0            | -0.01   | -0.01   | 11.49   | 2.05       | -12.03     | 0.05       | 3.20        | 3.03     |
| 1976 | 6           | 0           | 15         | 0            | -0.01   | -0.02   | 11.49   | 3.08       | -11.80     | 0.03       | 3.23        | 3.00     |
| 1982 | 6           | 10          | 0          | 0            | 0.01    | 0.00    | 11.49   | -0.36      | -11.97     | 0.06       | 3.25        | 2.91     |
| 1986 | 6           | 10          | 5          | 0            | 0.00    | 0.00    | 11.49   | 0.68       | -12.18     | 0.04       | 3.23        | 2.93     |
| 1990 | 6           | 10          | 10         | 0            | -0.01   | -0.02   | 11.49   | 1.71       | -12.01     | 0.05       | 3.24        | 2.92     |
| 1993 | 6           | 10          | 10         | 0            | -0.01   | -0.01   | 11.49   | 1.70       | -11.97     | 0.00       | 3.15        | 3.01     |
| 1995 | 6           | 10          | 15         | 0            | -0.01   | -0.01   | 11.49   | 2.74       | -11.82     | 0.03       | 3.15        | 3.01     |
| 2002 | 6           | 20          | 0          | 0            | -0.03   | 0.04    | 11.49   | -0.55      | -11.68     | 0.06       | 3.20        | 2.82     |
| 2007 | 6           | 20          | 5          | 0            | 0.02    | 0.03    | 11.49   | 0.45       | -11.64     | 0.05       | 3.19        | 2.83     |
| 2011 | 6           | 20          | 10         | 0            | 0.02    | 0.03    | 11.49   | 1.47       | -11.61     | 0.06       | 3.19        | 2.83     |
| 2015 | 6           | 20          | 15         | 0            | 0.02    | 0.03    | 11.49   | 2.48       | -11.46     | 0.05       | 3.19        | 2.83     |

\* Indicates model was close to heave stop



TABLE A1.101.1 - STABILITY DATA IN WIND AXES WITH AIR TARES

10 deg Deadrise, L/R = 0.000, Cv = 1.5

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|--------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 2113   | -2          | -10         | 0          | 7.38         | 1.69    | 0.13    | 11.49   | 0.33       | 4.40       | 0.30       | 2.21        | 1.09     |
| 2117   | -2          | -10         | 5          | 7.36         | 1.99    | 1.15    | 11.49   | -0.26      | 4.60       | 2.02       | 2.03        | 1.27     |
| 2121   | -2          | -10         | 10         | 7.37         | 3.08    | 3.22    | 11.49   | -1.15      | 5.39       | 4.90       | 1.66        | 1.64     |
| 2123 * | -2          | -10         | 15         | 7.37         | 4.49    | 5.77    | 11.49   | -2.59      | 6.13       | 7.96       | 1.50        | 1.80     |
| 2060   | -2          | 0           | 0          | 7.36         | 1.74    | -0.02   | 11.49   | 0.20       | 4.91       | 0.04       | 2.18        | 1.18     |
| 2063   | -2          | 0           | 0          | 7.36         | 1.74    | -0.03   | 11.49   | 0.23       | 4.91       | 0.06       | 2.17        | 1.19     |
| 2066   | -2          | 0           | 5          | 7.37         | 1.96    | 0.81    | 11.49   | -0.55      | 5.12       | 1.47       | 2.04        | 1.32     |
| 2068   | -2          | 0           | 10         | 7.36         | 2.61    | 2.21    | 11.49   | -1.17      | 5.30       | 3.66       | 1.85        | 1.51     |
| 2071 * | -2          | 0           | 15         | 7.36         | 4.07    | 4.51    | 11.49   | -2.23      | 5.56       | 7.09       | 1.50        | 1.86     |
| 2075   | -2          | 10          | 0          | 7.37         | 1.65    | -0.20   | 11.49   | -0.16      | 4.26       | -0.31      | 2.24        | 1.06     |
| 2079   | -2          | 10          | 5          | 7.36         | 1.72    | 0.51    | 11.49   | -0.77      | 4.69       | 1.01       | 2.21        | 1.09     |
| 2082   | -2          | 10          | 10         | 7.37         | 2.16    | 1.60    | 11.49   | -1.65      | 4.98       | 2.65       | 2.05        | 1.25     |
| 2084   | -2          | 10          | 15         | 7.37         | 3.39    | 3.58    | 11.49   | -2.54      | 5.21       | 5.50       | 1.75        | 1.55     |
| 2091   | -2          | 20          | 0          | 7.37         | 1.53    | -0.18   | 11.49   | -0.28      | 3.47       | -0.26      | 2.33        | 0.78     |
| 2095   | -2          | 20          | 5          | 7.39         | 1.70    | 0.49    | 11.49   | -0.84      | 4.40       | 1.11       | 2.30        | 0.81     |
| 2099   | -2          | 20          | 10         | 7.36         | 2.15    | 1.61    | 11.49   | -1.43      | 5.10       | 2.53       | 2.20        | 0.91     |
| 2102   | -2          | 20          | 15         | 7.39         | 2.84    | 3.53    | 11.49   | -2.13      | 5.89       | 4.45       | 2.03        | 1.08     |
| 1830   | 0           | -10         | 0          | 7.37         | 1.29    | -0.09   | 11.49   | 0.53       | 0.74       | -0.12      | 2.40        | 1.59     |
| 1834   | 0           | -10         | 5          | 7.38         | 1.50    | 0.60    | 11.49   | 0.34       | 0.56       | 0.66       | 2.31        | 1.68     |
| 1840   | 0           | -10         | 10         | 7.36         | 2.14    | 1.98    | 11.49   | -0.22      | 1.04       | 2.01       | 2.06        | 1.93     |
| 1844   | 0           | -10         | 15         | 7.37         | 3.50    | 4.58    | 11.49   | -1.59      | 1.87       | 4.10       | 1.73        | 2.26     |
| 1761   | 0           | 0           | 0          | 7.37         | 1.29    | -0.02   | 11.49   | 0.09       | 0.92       | -0.02      | 2.38        | 1.59     |
| 1765   | 0           | 0           | 5          | 7.37         | 1.38    | 0.33    | 11.49   | -0.05      | 0.97       | 0.49       | 2.34        | 1.63     |
| 1769   | 0           | 0           | 10         | 7.39         | 1.74    | 0.99    | 11.49   | -0.38      | 1.16       | 1.28       | 2.21        | 1.76     |
| 1774   | 0           | 0           | 15         | 7.37         | 2.77    | 2.68    | 11.49   | -1.01      | 1.77       | 2.95       | 1.88        | 2.09     |
| 1780   | 0           | 10          | 0          | 7.37         | 1.34    | 0.04    | 11.49   | -0.40      | 0.65       | 0.11       | 2.35        | 1.56     |
| 1784   | 0           | 10          | 5          | 7.37         | 1.42    | 0.48    | 11.49   | -0.56      | 1.09       | 0.60       | 2.35        | 1.56     |
| 1788   | 0           | 10          | 10         | 7.37         | 1.67    | 1.09    | 11.49   | -0.74      | 1.49       | 1.15       | 2.31        | 1.60     |
| 1789   | 0           | 10          | 10         | 7.37         | 1.67    | 1.06    | 11.49   | -0.72      | 1.41       | 1.10       | 2.31        | 1.60     |
| 1793   | 0           | 10          | 15         | 7.37         | 2.31    | 2.06    | 11.49   | -1.09      | 2.46       | 1.74       | 2.15        | 1.76     |
| 1810   | 0           | 21          | 0          | 7.37         | 1.14    | -0.05   | 11.49   | -0.65      | -0.29      | -0.02      | 2.47        | 1.30     |
| 1815   | 0           | 21          | 5          | 7.36         | 1.29    | 0.64    | 11.49   | -0.80      | 0.34       | 0.66       | 2.47        | 1.30     |
| 1820   | 0           | 21          | 10         | 7.36         | 1.61    | 1.75    | 11.49   | -0.93      | 1.00       | 1.23       | 2.45        | 1.32     |
| 1824   | 0           | 21          | 15         | 7.37         | 2.30    | 2.90    | 11.49   | -1.41      | 2.51       | 1.65       | 2.40        | 1.37     |
| 1919   | 3           | -11         | 0          | 7.37         | 1.19    | -0.06   | 11.49   | 0.55       | -4.78      | -0.16      | 2.78        | 2.24     |
| 1923   | 3           | -11         | 5          | 7.37         | 1.38    | 0.71    | 11.49   | 0.95       | -4.84      | -0.29      | 2.71        | 2.31     |
| 1927   | 3           | -11         | 10         | 7.37         | 1.80    | 1.86    | 11.49   | 0.98       | -4.44      | -0.48      | 2.55        | 2.47     |
| 1931   | 3           | -11         | 15         | 7.38         | 2.87    | 4.20    | 11.49   | 0.38       | -3.53      | -0.52      | 2.22        | 2.80     |
| 1851   | 3           | 0           | 0          | 7.37         | 1.12    | 0.04    | 11.49   | 0.08       | -5.04      | 0.04       | 2.81        | 2.40     |
| 1855   | 3           | 0           | 0          | 7.37         | 1.19    | 0.04    | 11.49   | 0.04       | -5.08      | 0.04       | 2.92        | 2.29     |
| 1857   | 3           | 0           | 5          | 7.37         | 1.29    | 0.56    | 11.49   | 0.47       | -4.88      | -0.23      | 2.89        | 2.32     |
| 1861   | 3           | 0           | 10         | 7.37         | 1.59    | 1.29    | 11.49   | 0.74       | -4.21      | -0.58      | 2.79        | 2.42     |
| 1865   | 3           | 0           | 15         | 7.37         | 2.15    | 2.36    | 11.49   | 0.64       | -3.02      | -0.94      | 2.59        | 2.62     |

\* Indicates model was close to heave stop

TABLE A1.101.2 - STABILITY DATA IN WIND AXES WITH AIR TARES

10 deg Deadrise, L/R = 0.000, Cv = 1.5

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 1881 | 3           | 10          | 0          | 7.38         | 1.24    | 0.07    | 11.49   | -0.47      | -4.99      | 0.22       | 2.77        | 2.25     |
| 1885 | 3           | 10          | 5          | 7.37         | 1.27    | 0.73    | 11.49   | -0.12      | -4.70      | -0.03      | 2.81        | 2.21     |
| 1889 | 3           | 10          | 10         | 7.37         | 1.52    | 1.57    | 11.49   | 0.37       | -4.17      | -0.48      | 2.79        | 2.23     |
| 1895 | 3           | 10          | 15         | 7.36         | 2.00    | 2.35    | 11.49   | 0.45       | -2.68      | -1.08      | 2.73        | 2.29     |
| 1901 | 3           | 21          | 0          | 7.37         | 1.32    | 0.06    | 11.49   | -0.75      | -5.05      | 0.35       | 2.78        | 2.05     |
| 1905 | 3           | 21          | 5          | 7.37         | 1.46    | 1.14    | 11.49   | -0.47      | -4.69      | -0.03      | 2.81        | 2.02     |
| 1909 | 3           | 21          | 10         | 7.37         | 1.80    | 2.34    | 11.49   | -0.20      | -4.28      | -0.61      | 2.83        | 2.00     |
| 1913 | 3           | 21          | 15         | 7.37         | 2.24    | 3.25    | 11.49   | 0.09       | -3.03      | -1.16      | 2.86        | 1.97     |
| 2023 | 6           | -10         | 0          | 7.37         | 1.68    | -0.23   | 11.49   | 0.45       | -8.60      | -0.02      | 3.37        | 2.93     |
| 2027 | 6           | -10         | 5          | 7.37         | 1.77    | 0.68    | 11.49   | 1.22       | -8.62      | -0.96      | 3.30        | 3.00     |
| 2031 | 6           | -10         | 10         | 7.37         | 2.11    | 1.88    | 11.49   | 1.84       | -8.25      | -2.04      | 3.18        | 3.12     |
| 2035 | 6           | -10         | 15         | 7.37         | 2.87    | 3.80    | 11.49   | 2.19       | -7.55      | -3.63      | 2.98        | 3.32     |
| 1964 | 6           | 0           | 0          | 7.37         | 1.52    | 0.00    | 11.49   | 0.08       | -8.57      | 0.09       | 3.39        | 2.84     |
| 1969 | 6           | 0           | 5          | 7.37         | 1.60    | 0.83    | 11.49   | 0.97       | -8.41      | -0.95      | 3.39        | 2.84     |
| 1973 | 6           | 0           | 10         | 7.37         | 1.91    | 1.70    | 11.49   | 1.90       | -7.88      | -1.99      | 3.30        | 2.93     |
| 1977 | 6           | 0           | 15         | 7.36         | 2.43    | 2.72    | 11.49   | 2.31       | -7.16      | -3.17      | 3.23        | 3.00     |
| 1983 | 6           | 10          | 0          | 7.37         | 1.67    | 0.33    | 11.49   | 0.13       | -8.55      | 0.14       | 3.44        | 2.72     |
| 1987 | 6           | 10          | 5          | 7.36         | 1.74    | 1.26    | 11.49   | 0.90       | -8.37      | -0.86      | 3.45        | 2.71     |
| 1991 | 6           | 10          | 10         | 7.37         | 1.95    | 2.19    | 11.49   | 1.65       | -7.55      | -2.10      | 3.45        | 2.71     |
| 1996 | 6           | 10          | 15         | 7.37         | 2.32    | 2.74    | 11.49   | 1.96       | -7.01      | -2.84      | 3.37        | 2.79     |
| 2003 | 6           | 20          | 0          | 7.37         | 1.69    | 0.50    | 11.49   | -0.14      | -8.65      | 0.20       | 3.34        | 2.68     |
| 2008 | 6           | 20          | 5          | 7.37         | 1.92    | 1.76    | 11.49   | 0.69       | -8.29      | -0.91      | 3.41        | 2.61     |
| 2012 | 6           | 20          | 10         | 7.37         | 2.27    | 3.05    | 11.49   | 1.23       | -7.61      | -2.35      | 3.42        | 2.60     |
| 2016 | 6           | 20          | 15         | 7.37         | 2.68    | 3.46    | 11.49   | 1.70       | -6.90      | -2.91      | 3.50        | 2.52     |

\* Indicates model was close to heave stop

TABLE A1.103.1 - STABILITY DATA IN WIND AXES WITH AIR TARES

10 deg Deadrise, L/R = 0.000, Cv = 3

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|--------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 2114   | -2          | -10         | 0          | 14.75        | 6.98    | 1.97    | 11.49   | 0.29       | 1.11       | 2.07       | 1.94        | 1.36     |
| 2118   | -2          | -10         | 5          | 14.74        | 8.80    | 8.36    | 11.49   | -0.85      | 0.45       | 11.12      | 1.58        | 1.72     |
| 2064   | -2          | 0           | 0          | 14.74        | 6.70    | 0.16    | 11.49   | 0.17       | 0.37       | 0.17       | 1.99        | 1.37     |
| 2067   | -2          | 0           | 5          | 14.74        | 8.11    | 5.93    | 11.49   | -0.41      | 0.23       | 8.03       | 1.58        | 1.78     |
| 2076   | -2          | 10          | 0          | 14.73        | 6.49    | -1.51   | 11.49   | -0.14      | 1.23       | -1.69      | 2.05        | 1.25     |
| 2080   | -2          | 10          | 5          | 14.74        | 7.48    | 2.73    | 11.49   | -1.30      | 2.54       | 4.79       | 1.82        | 1.48     |
| 2092   | -2          | 20          | 0          | 14.76        | 5.76    | -0.99   | 11.49   | -0.19      | 2.42       | -0.21      | 2.15        | 0.96     |
| 2096   | -2          | 20          | 5          | 14.74        | 5.76    | 3.05    | 11.49   | -0.78      | 5.07       | 5.57       | 2.31        | 0.80     |
| 2100   | -2          | 20          | 10         | 14.74        | 7.62    | 7.97    | 11.49   | -2.50      | 9.30       | 11.16      | 2.14        | 0.97     |
| 2103   | -2          | 20          | 15         | 14.73        | 6.66    | 5.40    | 11.49   | -3.60      | 18.06      | 8.67       | 2.86        | 0.25     |
| 1831   | 0           | -10         | 0          | 14.75        | 3.88    | -0.09   | 11.49   | 0.57       | 3.93       | -1.72      | 2.60        | 1.39     |
| 1835   | 0           | -10         | 5          | 14.73        | 5.46    | 3.45    | 11.49   | -0.41      | 4.74       | 0.19       | 2.21        | 1.78     |
| 1841   | 0           | -10         | 10         | 14.77        | 9.27    | 12.39   | 11.49   | -2.90      | 6.17       | 4.85       | 1.72        | 2.27     |
| 1845   | 0           | -10         | 15         | 14.73        | 13.31   | 22.14   | 11.49   | -6.45      | 7.20       | 7.69       | 1.72        | 2.27     |
| 1762   | 0           | 0           | 0          | 14.74        | 3.70    | 0.01    | 11.49   | 0.19       | 4.76       | -0.15      | 2.54        | 1.43     |
| 1766   | 0           | 0           | 5          | 14.75        | 4.92    | 2.18    | 11.49   | -0.37      | 6.15       | -0.74      | 2.40        | 1.57     |
| 1770 * | 0           | 0           | 10         | 14.74        | 9.49    | 10.52   | 11.49   | -2.62      | 8.95       | 1.96       | 1.52        | 2.45     |
| 1775 * | 0           | 0           | 15         | 14.73        | 12.80   | 17.20   | 11.49   | -5.79      | 11.78      | 4.34       | 1.51        | 2.46     |
| 1781   | 0           | 10          | 0          | 14.74        | 3.79    | 0.10    | 11.49   | -0.27      | 4.03       | 1.18       | 2.52        | 1.39     |
| 1785   | 0           | 10          | 5          | 14.74        | 4.19    | 1.98    | 11.49   | -0.63      | 7.68       | 1.44       | 2.47        | 1.44     |
| 1790   | 0           | 10          | 10         | 14.73        | 4.75    | 3.41    | 11.49   | -1.47      | 10.50      | 1.74       | 2.61        | 1.30     |
| 1794   | 0           | 10          | 15         | 14.75        | 5.18    | 4.48    | 11.49   | -1.93      | 11.04      | 1.83       | 2.82        | 1.09     |
| 1811   | 0           | 21          | 0          | 14.73        | 3.73    | 0.03    | 11.49   | -0.43      | 0.97       | 0.82       | 2.68        | 1.09     |
| 1816   | 0           | 21          | 5          | 14.71        | 4.02    | 2.93    | 11.49   | -1.00      | 5.32       | 1.96       | 2.69        | 1.08     |
| 1821   | 0           | 21          | 10         | 14.74        | 3.57    | 3.46    | 11.49   | -1.43      | 7.17       | 1.80       | 3.06        | 0.71     |
| 1825   | 0           | 21          | 15         | 14.74        | 3.24    | 3.21    | 11.49   | -1.12      | 1.93       | -0.42      | 3.69        | 0.08     |
| 1920   | 3           | -11         | 0          | 14.75        | 2.48    | -0.75   | 11.49   | 0.72       | -2.64      | -0.13      | 3.25        | 1.77     |
| 1924   | 3           | -11         | 5          | 14.74        | 3.18    | 2.15    | 11.49   | 0.78       | -2.55      | -1.81      | 3.09        | 1.93     |
| 1928   | 3           | -11         | 10         | 14.77        | 5.51    | 7.98    | 11.49   | -0.25      | -0.60      | -4.00      | 2.63        | 2.39     |
| 1933   | 3           | -11         | 15         | 14.75        | 12.80   | 24.49   | 11.49   | -4.41      | 5.03       | -2.65      | 1.61        | 3.41     |
| 1852   | 3           | 0           | 0          | 14.74        | 2.01    | -0.01   | 11.49   | 0.10       | -2.48      | 0.10       | 3.33        | 1.88     |
| 1858   | 3           | 0           | 5          | 14.75        | 2.42    | 1.10    | 11.49   | 0.59       | -2.59      | -0.87      | 3.42        | 1.79     |
| 1862   | 3           | 0           | 10         | 14.73        | 3.15    | 2.97    | 11.49   | 0.75       | -1.85      | -2.48      | 3.38        | 1.83     |
| 1866   | 3           | 0           | 15         | 14.73        | 4.99    | 6.45    | 11.49   | 0.17       | 0.30       | -5.33      | 3.16        | 2.05     |

\* Indicates model was close to heave stop

TABLE A1.103.2 - STABILITY DATA IN WIND AXES WITH AIR TARES

10 deg Deadrise, L/R = 0.000, Cv = 3

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 1882 | 3           | 10          | 0          | 14.72        | 2.41    | 0.62    | 11.49   | -0.52      | -2.99      | 0.35       | 3.27        | 1.75     |
| 1886 | 3           | 10          | 5          | 14.73        | 2.23    | 1.71    | 11.49   | 0.01       | -3.22      | -0.71      | 3.50        | 1.52     |
| 1890 | 3           | 10          | 10         | 14.73        | 2.19    | 2.21    | 11.49   | 1.16       | -6.13      | -1.56      | 3.83        | 1.19     |
| 1891 | 3           | 10          | 10         | 14.73        | 2.17    | 2.17    | 11.49   | 1.15       | -6.16      | -1.57      | 3.83        | 1.19     |
| 1896 | 3           | 10          | 15         | 14.77        | 2.21    | 2.57    | 11.49   | 2.76       | -9.65      | -2.75      | 4.14        | 0.88     |
| 1902 | 3           | 21          | 0          | 14.73        | 2.92    | 0.59    | 11.49   | -0.78      | -3.21      | 0.93       | 3.25        | 1.58     |
| 1906 | 3           | 21          | 5          | 14.74        | 2.62    | 3.37    | 11.49   | -0.62      | -3.24      | -1.32      | 3.55        | 1.28     |
| 1910 | 3           | 21          | 10         | 14.74        | 2.29    | 3.40    | 11.49   | 0.36       | -6.83      | -2.67      | 4.12        | 0.71     |
| 1914 | 3           | 21          | 15         | 14.73        | 2.17    | 3.25    | 11.49   | 1.63       | -10.15     | -3.40      | 4.55        | 0.28     |
| 2024 | 6           | -10         | 0          | 14.74        | 2.17    | -1.39   | 11.49   | 0.50       | -10.16     | 1.58       | 4.64        | 1.66     |
| 2028 | 6           | -10         | 5          | 14.76        | 2.58    | 0.07    | 11.49   | 1.43       | -8.89      | -0.55      | 4.33        | 1.97     |
| 2032 | 6           | -10         | 10         | 14.72        | 3.44    | 3.21    | 11.49   | 1.84       | -7.67      | -4.24      | 4.05        | 2.25     |
| 2036 | 6           | -10         | 15         | 14.73        | 5.84    | 9.56    | 11.49   | 1.22       | -5.57      | -10.60     | 3.60        | 2.70     |
| 1965 | 6           | 0           | 0          | 14.73        | 1.80    | 0.04    | 11.49   | 0.11       | -11.54     | 0.12       | 4.84        | 1.39     |
| 1970 | 6           | 0           | 5          | 14.73        | 1.71    | 0.34    | 11.49   | 1.37       | -11.49     | -0.28      | 4.84        | 1.39     |
| 1974 | 6           | 0           | 10         | 14.74        | 1.99    | 0.81    | 11.49   | 2.68       | -10.97     | -1.02      | 4.83        | 1.40     |
| 1978 | 6           | 0           | 15         | 14.73        | 2.58    | 1.77    | 11.49   | 3.77       | -10.66     | -2.63      | 4.77        | 1.46     |
| 1984 | 6           | 10          | 0          | 14.75        | 2.13    | 1.56    | 11.49   | 0.06       | -10.73     | -1.50      | 4.71        | 1.45     |
| 1988 | 6           | 10          | 5          | 14.73        | 2.01    | 1.79    | 11.49   | 1.37       | -12.69     | -2.17      | 5.08        | 1.08     |
| 1992 | 6           | 10          | 10         | 14.73        | 2.02    | 1.98    | 11.49   | 2.79       | -14.15     | -2.71      | 5.33        | 0.83     |
| 1997 | 6           | 10          | 15         | 14.73        | 2.07    | 2.02    | 11.49   | 4.15       | -14.63     | -2.97      | 5.38        | 0.78     |
| 2004 | 6           | 20          | 0          | 14.74        | 2.37    | 2.34    | 11.49   | -0.58      | -9.09      | -1.54      | 4.38        | 1.64     |
| 2009 | 6           | 20          | 5          | 14.73        | 2.47    | 4.39    | 11.49   | 0.13       | -10.97     | -4.69      | 4.77        | 1.25     |
| 2013 | 6           | 20          | 10         | 14.72        | 2.26    | 3.03    | 11.49   | 1.61       | -13.24     | -3.88      | 5.33        | 0.69     |
| 2017 | 6           | 20          | 15         | 14.73        | 2.42    | 2.78    | 11.49   | 3.08       | -14.36     | -3.95      | 5.58        | 0.44     |

\* Indicates model was close to heave stop

TABLE A1.104.1 - STABILITY DATA IN WIND AXES WITH AIR TARES

10 deg Deadrise, L/R = 0.000, Cv = 4

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|--------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 2115   | -2          | -10         | 0          | 19.64        | 13.13   | 4.55    | 11.49   | 1.10       | -3.53      | 4.71       | 1.61        | 1.69     |
| 2077   | -2          | 10          | 0          | 19.68        | 13.07   | -3.70   | 11.49   | -0.22      | -3.71      | -4.04      | 1.56        | 1.74     |
| 2093 * | -2          | 20          | 0          | 19.64        | 13.48   | -6.59   | 11.49   | -0.21      | 1.45       | -9.84      | 1.52        | 1.59     |
| 2097 * | -2          | 20          | 5          | 19.64        | 13.77   | 3.52    | 11.49   | -1.19      | 5.92       | 6.36       | 1.55        | 1.56     |
| 2105   | -2          | 20          | 10         | 19.67        | 12.43   | 6.54    | 11.49   | -3.19      | 26.38      | 12.93      | 2.23        | 0.88     |
| 2107   | -2          | 20          | 10         | 19.69        | 16.74   | 18.35   | 11.49   | -1.97      | 9.06       | 21.44      | 1.67        | 1.44     |
| 2109   | -2          | 20          | 12         | 19.66        | 7.86    | 5.04    | 11.49   | -3.52      | 21.47      | 8.26       | 3.04        | 0.07     |
| 2104   | -2          | 20          | 15         | 19.66        | 5.67    | 4.08    | 11.49   | -3.28      | 14.69      | 4.34       | 3.58        | -0.47    |
| 1832   | 0           | -10         | 0          | 19.66        | 7.15    | -0.67   | 11.49   | 0.48       | 9.60       | -3.81      | 2.44        | 1.55     |
| 1836   | 0           | -10         | 5          | 19.63        | 11.55   | 7.52    | 11.49   | -1.41      | 11.37      | 2.88       | 1.71        | 2.28     |
| 1842   | 0           | -10         | 10         | 19.65        | 15.50   | 20.76   | 11.49   | -5.60      | 12.70      | 8.96       | 1.72        | 2.27     |
| 1846   | 0           | -10         | 15         | 19.69        | 22.69   | 39.42   | 11.49   | -11.76     | 13.28      | 13.48      | 1.69        | 2.30     |
| 1763   | 0           | 0           | 0          | 19.66        | 6.78    | -0.07   | 11.49   | 0.31       | 12.36      | -0.32      | 2.28        | 1.69     |
| 1767   | 0           | 0           | 5          | 19.67        | 9.27    | 2.62    | 11.49   | -0.90      | 15.11      | -0.70      | 2.17        | 1.80     |
| 1772 * | 0           | 0           | 10         | 19.62        | 15.38   | 15.02   | 11.49   | -4.75      | 18.07      | 5.15       | 1.47        | 2.50     |
| 1776 * | 0           | 0           | 15         | 19.64        | 21.75   | 28.91   | 11.49   | -9.80      | 21.71      | 7.62       | 1.45        | 2.52     |
| 1782   | 0           | 10          | 0          | 19.65        | 7.03    | 0.73    | 11.49   | 0.10       | 10.57      | 2.13       | 2.33        | 1.58     |
| 1786   | 0           | 10          | 5          | 19.62        | 6.14    | 2.22    | 11.49   | -0.76      | 14.73      | 2.37       | 2.59        | 1.32     |
| 1791   | 0           | 10          | 10         | 19.65        | 5.22    | 2.91    | 11.49   | -1.02      | 11.30      | 1.95       | 3.03        | 0.88     |
| 1795   | 0           | 10          | 15         | 19.66        | 4.50    | 3.73    | 11.49   | -0.39      | 5.00       | 0.25       | 3.37        | 0.54     |
| 1812   | 0           | 21          | 0          | 19.63        | 6.88    | 0.44    | 11.49   | -0.21      | 5.20       | 2.05       | 2.52        | 1.25     |
| 1818   | 0           | 21          | 5          | 19.64        | 5.79    | 3.12    | 11.49   | -1.22      | 12.17      | 3.09       | 2.79        | 0.98     |
| 1822   | 0           | 21          | 10         | 19.64        | 4.46    | 2.97    | 11.49   | -1.39      | 5.09       | 0.34       | 3.59        | 0.18     |
| 1826   | 0           | 21          | 15         | 19.62        | 2.73    | 2.14    | 11.49   | -0.54      | -2.88      | -0.61      | 4.20        | -0.43    |
| 1921   | 3           | -11         | 0          | 19.65        | 3.15    | -1.28   | 11.49   | 0.78       | -2.44      | 0.59       | 3.57        | 1.45     |
| 1925   | 3           | -11         | 5          | 19.66        | 4.64    | 2.41    | 11.49   | 0.77       | -0.44      | -2.41      | 3.26        | 1.76     |
| 1929   | 3           | -11         | 10         | 19.64        | 8.52    | 12.52   | 11.49   | -1.22      | 3.53       | -6.37      | 2.65        | 2.37     |
| 1934   | 3           | -11         | 15         | 19.69        | 20.99   | 42.55   | 11.49   | -8.89      | 13.41      | -4.60      | 1.59        | 3.43     |
| 1853   | 3           | 0           | 0          | 19.68        | 2.68    | 0.06    | 11.49   | 0.14       | -4.39      | 0.10       | 3.80        | 1.41     |
| 1859   | 3           | 0           | 5          | 19.65        | 2.94    | 0.73    | 11.49   | 0.93       | -4.23      | -0.35      | 3.80        | 1.41     |
| 1863   | 3           | 0           | 10         | 19.64        | 3.60    | 2.44    | 11.49   | 1.57       | -4.14      | -2.32      | 3.80        | 1.41     |
| 1867   | 3           | 0           | 15         | 19.63        | 5.17    | 5.59    | 11.49   | 1.52       | -2.04      | -5.82      | 3.66        | 1.55     |

\* Indicates model was close to heave stop

TABLE A1.104.2 - STABILITY DATA IN WIND AXES WITH AIR TARES

10 deg Deadrise, L/R = 0.000, Cv = 4

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 1883 | 3           | 10          | 0          | 19.64        | 3.06    | 1.25    | 11.49   | -0.57      | -3.07      | -0.50      | 3.61        | 1.41     |
| 1887 | 3           | 10          | 5          | 19.69        | 2.56    | 1.91    | 11.49   | 0.49       | -8.36      | -1.70      | 4.06        | 0.96     |
| 1893 | 3           | 10          | 10         | 19.65        | 2.20    | 2.23    | 11.49   | 1.74       | -11.39     | -2.42      | 4.30        | 0.72     |
| 1897 | 3           | 10          | 15         | 19.63        | 2.20    | 2.32    | 11.49   | 3.04       | -12.74     | -2.74      | 4.43        | 0.59     |
| 1903 | 3           | 21          | 0          | 19.63        | 4.11    | 1.31    | 11.49   | -0.87      | -2.01      | 1.08       | 3.48        | 1.35     |
| 1907 | 3           | 21          | 5          | 19.63        | 2.82    | 3.17    | 11.49   | -0.47      | -6.15      | -2.02      | 4.10        | 0.73     |
| 1911 | 3           | 21          | 10         | 19.64        | 2.29    | 3.02    | 11.49   | 0.72       | -10.98     | -2.93      | 4.60        | 0.23     |
| 1915 | 3           | 21          | 15         | 19.67        | 2.18    | 2.54    | 11.49   | 2.19       | -13.51     | -2.78      | 4.92        | -0.09    |
| 2025 | 6           | -10         | 0          | 19.64        | 2.10    | -0.89   | 11.49   | 0.79       | -13.99     | 1.52       | 5.35        | 0.95     |
| 2029 | 6           | -10         | 5          | 19.67        | 2.67    | -0.34   | 11.49   | 1.91       | -12.01     | 0.46       | 5.04        | 1.26     |
| 2033 | 6           | -10         | 10         | 19.62        | 3.79    | 2.77    | 11.49   | 2.58       | -9.66      | -4.08      | 4.69        | 1.61     |
| 2037 | 6           | -10         | 15         | 19.63        | 6.77    | 10.48   | 11.49   | 1.65       | -6.40      | -13.61     | 4.18        | 2.12     |
| 1966 | 6           | 0           | 0          | 19.65        | 1.72    | 0.19    | 11.49   | 0.19       | -16.81     | -0.07      | 5.54        | 0.69     |
| 1971 | 6           | 0           | 5          | 19.64        | 1.78    | 0.57    | 11.49   | 1.87       | -16.45     | -0.61      | 5.53        | 0.70     |
| 1975 | 6           | 0           | 10         | 19.64        | 1.93    | 0.96    | 11.49   | 3.59       | -16.16     | -1.21      | 5.51        | 0.72     |
| 1979 | 6           | 0           | 15         | 19.64        | 2.25    | 1.33    | 11.49   | 5.36       | -15.54     | -1.85      | 5.46        | 0.77     |
| 1985 | 6           | 10          | 0          | 19.63        | 2.16    | 1.20    | 11.49   | -0.17      | -14.69     | -1.46      | 5.43        | 0.73     |
| 1989 | 6           | 10          | 5          | 19.65        | 2.01    | 1.39    | 11.49   | 1.32       | -15.66     | -1.78      | 5.58        | 0.58     |
| 1994 | 6           | 10          | 10         | 19.67        | 2.02    | 1.54    | 11.49   | 2.57       | -16.29     | -1.99      | 5.58        | 0.58     |
| 1998 | 6           | 10          | 15         | 19.64        | 2.07    | 1.64    | 11.49   | 4.14       | -16.31     | -2.16      | 5.66        | 0.50     |
| 2005 | 6           | 20          | 0          | 19.63        | 2.73    | 3.00    | 11.49   | -0.82      | -11.30     | -2.98      | 5.02        | 1.00     |
| 2010 | 6           | 20          | 5          | 19.68        | 2.52    | 3.89    | 11.49   | 0.29       | -13.66     | -4.82      | 5.44        | 0.58     |
| 2014 | 6           | 20          | 10         | 19.68        | 2.24    | 2.45    | 11.49   | 1.59       | -16.07     | -3.15      | 5.82        | 0.20     |
| 2018 | 6           | 20          | 15         | 19.66        | 2.23    | 2.11    | 11.49   | 3.46       | -16.29     | -2.77      | 5.95        | 0.07     |

\* Indicates model was close to heave stop

TABLE A1.110.1 - STABILITY DATA IN WIND AXES WITH AIR TARES

10 deg Deadrise, L/R = 0.117, Cv = 0

| RUN | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|-----|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 753 | 0           | -10         | -15        | 0            | -0.07   | 0.30    | 11.49   | -0.20      | -3.42      | 0.07       | 2.68        | 1.41     |
| 749 | 0           | -10         | -10        | 0            | 0.01    | 0.13    | 11.49   | -0.02      | -3.41      | 0.00       | 2.68        | 1.41     |
| 745 | 0           | -10         | -5         | 0            | 0.03    | 0.05    | 11.49   | 0.21       | -3.40      | -0.01      | 2.71        | 1.38     |
| 732 | 0           | -10         | 0          | 0            | 0.03    | 0.13    | 11.49   | 0.60       | -3.33      | 0.02       | 2.73        | 1.36     |
| 736 | 0           | -10         | 5          | 0            | 0.01    | 0.09    | 11.49   | 0.83       | -3.33      | 0.00       | 2.73        | 1.36     |
| 740 | 0           | -10         | 10         | 0            | 0.00    | 0.01    | 11.49   | 1.05       | -3.35      | 0.07       | 2.72        | 1.37     |
| 664 | 0           | 0           | -10        | 0            | 0.04    | 0.09    | 11.49   | -0.76      | -3.54      | -0.01      | 2.51        | 1.64     |
| 660 | 0           | 0           | -5         | 0            | 0.03    | 0.05    | 11.49   | -0.41      | -3.56      | 0.02       | 2.52        | 1.63     |
| 643 | 0           | 0           | 0          | 0            | 0.06    | 0.03    | 11.49   | -0.11      | -3.56      | 0.00       | 2.58        | 1.57     |
| 645 | 0           | 0           | 0          | 0            | 0.09    | 0.05    | 11.49   | -0.08      | -3.38      | -0.01      | 3.69        | 0.46     |
| 647 | 0           | 0           | 0          | 0            | 0.08    | 0.03    | 11.49   | -0.08      | -3.37      | 0.00       | 2.61        | 1.54     |
| 648 | 0           | 0           | 0          | 0            | 0.06    | 0.05    | 11.49   | -0.06      | -3.46      | 0.01       | 2.61        | 1.54     |
| 653 | 0           | 0           | 5          | 0            | 0.04    | 0.06    | 11.49   | 0.26       | -3.58      | 0.01       | 2.58        | 1.57     |
| 656 | 0           | 0           | 10         | 0            | 0.03    | 0.05    | 11.49   | 0.57       | -3.64      | 0.02       | 2.58        | 1.57     |
| 668 | 0           | 10          | -10        | 0            | 0.02    | 0.12    | 11.49   | -1.27      | -3.30      | -0.01      | 2.55        | 1.54     |
| 689 | 0           | 10          | -10        | 0            | 0.05    | 0.01    | 11.49   | -1.42      | -3.24      | 0.02       | 2.49        | 1.60     |
| 685 | 0           | 10          | -5         | 0            | 0.03    | 0.05    | 11.49   | -1.06      | -3.37      | -0.02      | 2.52        | 1.57     |
| 672 | 0           | 10          | 5          | 0            | 0.02    | 0.06    | 11.49   | -0.44      | -3.60      | -0.02      | 2.55        | 1.54     |
| 676 | 0           | 10          | 10         | 0            | 0.01    | 0.07    | 11.49   | -0.08      | -3.70      | -0.01      | 2.54        | 1.55     |
| 681 | 0           | 10          | 15         | 0            | 0.02    | 0.07    | 11.49   | 0.25       | -3.75      | -0.01      | 2.54        | 1.55     |
| 728 | 0           | 20          | -10        | 0            | 0.06    | -0.06   | 11.49   | -1.62      | -3.22      | 0.09       | 2.65        | 1.25     |
| 724 | 0           | 20          | -5         | 0            | 0.03    | 0.08    | 11.49   | -1.20      | -3.26      | -0.02      | 2.69        | 1.21     |
| 706 | 0           | 20          | 0          | 0            | 0.03    | 0.10    | 11.49   | -0.85      | -3.46      | -0.02      | 2.72        | 1.18     |
| 707 | 0           | 20          | 0          | 0            | 0.03    | 0.10    | 11.49   | -0.86      | -3.45      | -0.02      | 2.72        | 1.18     |
| 711 | 0           | 20          | 5          | 0            | 0.04    | 0.04    | 11.49   | -0.59      | -3.54      | 0.01       | 2.70        | 1.20     |
| 715 | 0           | 20          | 10         | 0            | 0.04    | 0.09    | 11.49   | -0.24      | -3.66      | 0.01       | 2.69        | 1.21     |
| 720 | 0           | 20          | 15         | 0            | 0.03    | 0.10    | 11.49   | 0.07       | -3.68      | -0.01      | 2.69        | 1.21     |
| 883 | 3           | -10         | -15        | 0            | 0.01    | 0.00    | 11.49   | -1.90      | -8.49      | -0.06      | 2.83        | 2.43     |
| 887 | 3           | -10         | -10        | 0            | -0.04   | 0.04    | 11.49   | -1.17      | -8.80      | -0.03      | 2.84        | 2.42     |
| 891 | 3           | -10         | -5         | 0            | -0.00   | 0.03    | 11.49   | -0.41      | -8.94      | -0.03      | 2.81        | 2.45     |
| 895 | 3           | -10         | 0          | 0            | 0.02    | 0.00    | 11.49   | 0.32       | -8.87      | -0.03      | 2.85        | 2.41     |
| 899 | 3           | -10         | 5          | 0            | -0.00   | 0.07    | 11.49   | 1.17       | -8.87      | -0.03      | 2.85        | 2.41     |
| 903 | 3           | -10         | 10         | 0            | 0.01    | 0.02    | 11.49   | 1.88       | -8.76      | -0.03      | 2.85        | 2.41     |
| 907 | 3           | -10         | 15         | 0            | -0.00   | 0.03    | 11.49   | 2.68       | -8.71      | -0.02      | 2.83        | 2.43     |
| 802 | 3           | 0           | -15        | 0            | 0.00    | 0.03    | 11.49   | -2.49      | -8.85      | -0.08      | 2.80        | 2.52     |
| 798 | 3           | 0           | -10        | 0            | 0.00    | 0.05    | 11.49   | -1.75      | -9.31      | -0.07      | 2.75        | 2.57     |
| 794 | 3           | 0           | -5         | 0            | 0.02    | 0.01    | 11.49   | -0.93      | -9.23      | -0.06      | 2.80        | 2.52     |
| 759 | 3           | 0           | 0          | 0            | -0.01   | 0.08    | 11.49   | -0.10      | -9.26      | -0.03      | 2.95        | 2.37     |
| 763 | 3           | 0           | 5          | 0            | -0.01   | 0.10    | 11.49   | 0.73       | -9.32      | -0.05      | 2.96        | 2.36     |
| 767 | 3           | 0           | 10         | 0            | -0.02   | 0.02    | 11.49   | 1.57       | -9.33      | -0.06      | 2.95        | 2.37     |
| 790 | 3           | 0           | 10         | 0            | 0.01    | 0.04    | 11.49   | 1.52       | -9.28      | -0.04      | 2.80        | 2.52     |
| 771 | 3           | 0           | 15         | 0            | -0.03   | 0.05    | 11.49   | 2.37       | -9.34      | -0.05      | 2.93        | 2.39     |
| 786 | 3           | 0           | 15         | 0            | 0.00    | 0.05    | 11.49   | 2.30       | -9.05      | -0.04      | 2.85        | 2.47     |

\* Indicates model was close to heave stop

TABLE A1.110.2 - STABILITY DATA IN WIND AXES WITH AIR TARES

10 deg Deadrise, L/R = 0.117, Cv = 0

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 836  | 3           | 10          | -15        | 0            | 0.02    | -0.00   | 11.49   | -2.91      | -8.56      | -0.05      | 2.83        | 2.43     |
| 832  | 3           | 10          | -10        | 0            | -0.01   | 0.05    | 11.49   | -2.12      | -8.75      | -0.06      | 2.85        | 2.41     |
| 828  | 3           | 10          | -5         | 0            | -0.01   | -0.00   | 11.49   | -1.39      | -8.92      | -0.06      | 2.85        | 2.41     |
| 811  | 3           | 10          | 0          | 0            | -0.01   | 0.07    | 11.49   | -0.56      | -9.22      | -0.05      | 2.81        | 2.45     |
| 816  | 3           | 10          | 5          | 0            | -0.02   | 0.04    | 11.49   | 0.21       | -9.20      | -0.04      | 2.85        | 2.41     |
| 820  | 3           | 10          | 10         | 0            | -0.02   | 0.03    | 11.49   | 1.05       | -9.17      | -0.02      | 2.86        | 2.40     |
| 824  | 3           | 10          | 15         | 0            | -0.01   | 0.03    | 11.49   | 1.84       | -9.05      | -0.04      | 2.87        | 2.39     |
| 875  | 3           | 20          | -15        | 0            | -0.00   | 0.04    | 11.49   | -2.98      | -7.96      | -0.05      | 2.87        | 2.20     |
| 870  | 3           | 20          | -10        | 0            | -0.01   | 0.05    | 11.49   | -2.17      | -8.19      | -0.05      | 2.89        | 2.18     |
| 853  | 3           | 20          | -5         | 0            | -0.01   | -0.04   | 11.49   | -1.64      | -8.41      | -0.10      | 2.87        | 2.20     |
| 867  | 3           | 20          | -5         | 0            | -0.01   | 0.12    | 11.49   | -1.52      | -8.38      | -0.05      | 2.93        | 2.14     |
| 841  | 3           | 20          | 0          | 0            | 0.04    | -0.08   | 11.49   | -0.84      | -8.49      | -0.10      | 2.86        | 2.21     |
| 845  | 3           | 20          | 5          | 0            | -0.01   | -0.09   | 11.49   | -0.17      | -8.63      | -0.07      | 2.88        | 2.19     |
| 849  | 3           | 20          | 10         | 0            | -0.03   | -0.07   | 11.49   | 0.60       | -8.63      | -0.08      | 2.88        | 2.19     |
| 878  | 3           | 20          | 15         | 0            | -0.04   | 0.01    | 11.49   | 1.45       | -8.75      | -0.01      | 2.84        | 2.23     |
| 1053 | 6           | -10         | -15        | 0            | -0.03   | 0.02    | 11.49   | -3.10      | -12.43     | -0.08      | 3.13        | 3.29     |
| 1049 | 6           | -10         | -10        | 0            | -0.04   | 0.07    | 11.49   | -2.01      | -12.76     | -0.08      | 3.14        | 3.28     |
| 1044 | 6           | -10         | -5         | 0            | -0.02   | 0.11    | 11.49   | -0.87      | -12.74     | -0.11      | 3.17        | 3.25     |
| 1011 | 6           | -10         | 0          | 0            | -0.02   | 0.02    | 11.49   | 0.16       | -12.11     | -0.05      | 3.22        | 3.20     |
| 1033 | 6           | -10         | 0          | 0            | -0.01   | 0.03    | 11.49   | 0.20       | -12.31     | -0.06      | 3.21        | 3.21     |
| 1040 | 6           | -10         | 5          | 0            | -0.04   | 0.05    | 11.49   | 1.31       | -12.61     | -0.05      | 3.18        | 3.24     |
| 1015 | 6           | -10         | 10         | 0            | -0.03   | 0.04    | 11.49   | 2.32       | -12.21     | -0.05      | 3.21        | 3.21     |
| 1019 | 6           | -10         | 15         | 0            | -0.03   | -0.02   | 11.49   | 3.36       | -12.11     | -0.05      | 3.19        | 3.23     |
| 1035 | 6           | -10         | 15         | 0            | -0.02   | 0.08    | 11.49   | 3.43       | -11.99     | -0.06      | 3.21        | 3.21     |
| 937  | 6           | 0           | -15        | 0            | -0.01   | -0.01   | 11.49   | -3.35      | -11.98     | -0.09      | 3.21        | 3.27     |
| 933  | 6           | 0           | -10        | 0            | -0.01   | -0.00   | 11.49   | -2.29      | -12.26     | -0.10      | 3.21        | 3.27     |
| 929  | 6           | 0           | -5         | 0            | -0.01   | -0.03   | 11.49   | -1.26      | -12.46     | -0.14      | 3.21        | 3.27     |
| 912  | 6           | 0           | 0          | 0            | 0.03    | -0.05   | 11.49   | -0.19      | -12.40     | -0.07      | 3.22        | 3.26     |
| 917  | 6           | 0           | 5          | 0            | -0.02   | -0.04   | 11.49   | 0.92       | -12.62     | -0.06      | 3.18        | 3.30     |
| 921  | 6           | 0           | 10         | 0            | -0.02   | -0.02   | 11.49   | 2.00       | -12.28     | -0.08      | 3.24        | 3.24     |
| 925  | 6           | 0           | 15         | 0            | -0.03   | 0.07    | 11.49   | 3.10       | -12.19     | -0.07      | 3.22        | 3.26     |
| 978  | 6           | 10          | -15        | 0            | -0.01   | -0.00   | 11.49   | -3.65      | -11.93     | -0.09      | 3.16        | 3.26     |
| 974  | 6           | 10          | -10        | 0            | -0.02   | 0.04    | 11.49   | -2.59      | -12.22     | -0.13      | 3.18        | 3.24     |
| 970  | 6           | 10          | -5         | 0            | -0.04   | 0.08    | 11.49   | -1.45      | -12.23     | -0.08      | 3.21        | 3.21     |
| 954  | 6           | 10          | 0          | 0            | -0.03   | 0.06    | 11.49   | -0.37      | -12.53     | -0.08      | 3.20        | 3.22     |
| 958  | 6           | 10          | 5          | 0            | -0.00   | -0.01   | 11.49   | 0.62       | -12.54     | -0.08      | 3.17        | 3.25     |
| 962  | 6           | 10          | 10         | 0            | -0.02   | -0.02   | 11.49   | 1.69       | -12.27     | -0.07      | 3.20        | 3.22     |
| 966  | 6           | 10          | 15         | 0            | -0.04   | 0.03    | 11.49   | 2.77       | -12.25     | -0.06      | 3.20        | 3.22     |
| 1002 | 6           | 20          | -15        | 0            | -0.01   | 0.02    | 11.49   | -3.73      | -11.41     | -0.06      | 3.21        | 3.02     |
| 998  | 6           | 20          | -10        | 0            | -0.03   | 0.04    | 11.49   | -2.71      | -11.64     | -0.09      | 3.22        | 3.01     |
| 994  | 6           | 20          | -5         | 0            | -0.02   | 0.02    | 11.49   | -1.69      | -11.63     | -0.07      | 3.25        | 2.98     |
| 982  | 6           | 20          | 0          | 0            | -0.02   | 0.00    | 11.49   | -0.65      | -11.77     | -0.05      | 3.27        | 2.96     |
| 986  | 6           | 20          | 5          | 0            | -0.02   | 0.03    | 11.49   | 0.38       | -11.79     | -0.06      | 3.27        | 2.96     |
| 990  | 6           | 20          | 10         | 0            | -0.02   | 0.03    | 11.49   | 1.38       | -11.80     | -0.05      | 3.26        | 2.97     |
| 1006 | 6           | 20          | 15         | 0            | -0.04   | -0.02   | 11.49   | 2.43       | -11.86     | -0.06      | 3.23        | 3.00     |

\* Indicates model was close to heave stop



TABLE A1.111.1 - STABILITY DATA IN WIND AXES WITH AIR TARES

10 deg Deadrise, L/R = 0.117, Cv = 1.5

| RUN | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|-----|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 754 | 0           | -10         | -15        | 7.34         | 2.41    | -3.16   | 11.49   | 1.47       | 2.47       | -2.36      | 2.11        | 1.98     |
| 750 | 0           | -10         | -10        | 7.34         | 1.84    | -2.60   | 11.49   | 0.71       | 1.72       | -1.78      | 2.29        | 1.80     |
| 746 | 0           | -10         | -5         | 7.35         | 1.54    | -2.02   | 11.49   | 0.40       | 1.41       | -1.11      | 2.34        | 1.75     |
| 733 | 0           | -10         | 0          | 7.36         | 1.44    | -1.54   | 11.49   | 0.19       | 1.24       | -0.47      | 2.37        | 1.72     |
| 737 | 0           | -10         | 5          | 7.35         | 1.58    | -0.94   | 11.49   | -0.14      | 1.17       | 0.17       | 2.27        | 1.82     |
| 741 | 0           | -10         | 10         | 7.35         | 2.28    | 0.36    | 11.49   | -1.36      | 1.86       | 1.42       | 1.96        | 2.13     |
| 665 | 0           | 0           | -10        | 7.38         | 2.05    | -2.57   | 11.49   | 0.35       | 1.38       | -1.84      | 1.94        | 2.21     |
| 661 | 0           | 0           | -5         | 7.36         | 1.60    | -2.00   | 11.49   | 0.03       | 1.19       | -0.81      | 2.11        | 2.04     |
| 649 | 0           | 0           | 0          | 7.40         | 1.42    | -1.51   | 11.49   | -0.25      | 1.31       | -0.20      | 2.23        | 1.92     |
| 652 | 0           | 0           | 5          | 7.37         | 1.46    | -1.20   | 11.49   | -0.46      | 1.35       | 0.27       | 2.19        | 1.96     |
| 657 | 0           | 0           | 10         | 7.39         | 1.80    | -0.75   | 11.49   | -0.95      | 1.58       | 0.91       | 2.05        | 2.10     |
| 690 | 0           | 10          | -10        | 7.40         | 2.33    | -3.56   | 11.49   | 0.16       | 0.46       | -2.75      | 1.79        | 2.30     |
| 686 | 0           | 10          | -5         | 7.38         | 1.64    | -2.15   | 11.49   | -0.63      | 0.44       | -1.13      | 2.06        | 2.03     |
| 669 | 0           | 10          | 0          | 7.38         | 1.50    | -1.52   | 11.49   | -0.79      | 0.74       | -0.29      | 2.16        | 1.93     |
| 673 | 0           | 10          | 5          | 7.38         | 1.51    | -1.09   | 11.49   | -1.05      | .32        | 0.22       | 2.17        | 1.92     |
| 677 | 0           | 10          | 10         | 7.38         | 1.76    | -0.57   | 11.49   | -1.28      | 1.72       | 0.89       | 2.11        | 1.98     |
| 682 | 0           | 10          | 15         | 7.37         | 2.33    | 0.26    | 11.49   | -1.72      | 2.37       | 1.55       | 1.97        | 2.12     |
| 729 | 0           | 20          | -10        | 7.35         | 2.47    | -4.81   | 11.49   | -0.11      | -0.16      | -3.37      | 1.94        | 1.96     |
| 725 | 0           | 20          | -5         | 7.36         | 1.57    | -2.43   | 11.49   | -0.77      | -0.20      | -1.65      | 2.24        | 1.66     |
| 708 | 0           | 20          | 0          | 7.36         | 1.33    | -1.61   | 11.49   | -1.06      | 0.09       | -0.66      | 2.37        | 1.53     |
| 712 | 0           | 20          | 5          | 7.36         | 1.43    | -0.94   | 11.49   | -1.26      | 0.56       | 0.11       | 2.36        | 1.54     |
| 716 | 0           | 20          | 10         | 7.36         | 1.68    | 0.07    | 11.49   | -1.49      | 1.16       | 0.74       | 2.35        | 1.55     |
| 721 | 0           | 20          | 15         | 7.36         | 2.22    | 1.13    | 11.49   | -1.66      | 1.45       | 1.11       | 2.33        | 1.57     |
| 884 | 3           | -10         | -15        | 7.36         | 1.98    | -3.81   | 11.49   | -0.66      | -2.01      | 0.45       | 2.62        | 2.64     |
| 888 | 3           | -10         | -10        | 7.36         | 1.47    | -2.91   | 11.49   | -0.60      | -3.58      | 0.06       | 2.70        | 2.56     |
| 892 | 3           | -10         | -5         | 7.36         | 1.31    | -2.09   | 11.49   | -0.29      | -4.26      | -0.34      | 2.67        | 2.59     |
| 896 | 3           | -10         | 0          | 7.36         | 1.29    | -1.42   | 11.49   | 0.08       | -4.47      | -0.53      | 2.68        | 2.58     |
| 900 | 3           | -10         | 5          | 7.36         | 1.44    | -0.62   | 11.49   | 0.43       | -4.38      | -0.76      | 2.59        | 2.67     |
| 904 | 3           | -10         | 10         | 7.36         | 1.96    | 0.70    | 11.49   | 0.27       | -3.72      | -1.23      | 2.39        | 2.87     |
| 908 | 3           | -10         | 15         | 7.36         | 3.23    | 3.27    | 11.49   | -0.71      | -2.46      | -1.71      | 2.02        | 3.24     |
| 803 | 3           | 0           | -15        | 7.37         | 2.03    | -3.47   | 11.49   | -1.14      | -2.72      | 0.28       | 2.42        | 2.90     |
| 799 | 3           | 0           | -10        | 7.36         | 1.59    | -2.61   | 11.49   | -1.12      | -4.01      | 0.15       | 2.53        | 2.79     |
| 795 | 3           | 0           | -5         | 7.46         | 1.33    | -1.95   | 11.49   | -0.84      | -4.52      | -0.07      | 2.66        | 2.66     |
| 760 | 3           | 0           | 0          | 7.36         | 1.18    | -1.37   | 11.49   | -0.37      | -4.69      | -0.29      | 2.81        | 2.51     |
| 764 | 3           | 0           | 5          | 7.35         | 1.36    | -0.69   | 11.49   | 0.08       | -4.50      | -0.62      | 2.76        | 2.56     |
| 768 | 3           | 0           | 10         | 7.36         | 1.74    | 0.07    | 11.49   | 0.29       | -3.59      | -1.10      | 2.66        | 2.66     |
| 809 | 3           | 0           | 10         | 7.37         | 1.74    | 0.15    | 11.49   | 0.24       | -3.62      | -1.04      | 2.50        | 2.82     |
| 772 | 3           | 0           | 15         | 7.36         | 2.53    | 1.58    | 11.49   | -0.16      | -2.19      | -1.72      | 2.43        | 2.89     |
| 789 | 3           | 0           | 15         | 7.35         | 2.47    | 1.53    | 11.49   | -0.10      | -2.24      | -1.64      | 2.31        | 3.01     |

\* Indicates model was close to heave stop

TABLE A1.111.2 - STABILITY DATA IN WIND AXES WITH AIR TARES

10 deg Deadrise, L/R = 0.117, Cv = 1.5

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 837  | 3           | 10          | -15        | 7.37         | 2.55    | -4.77   | 11.49   | -1.06      | -4.01      | -0.03      | 2.23        | 3.03     |
| 833  | 3           | 10          | -10        | 7.37         | 1.63    | -2.75   | 11.49   | -1.48      | -4.75      | 0.06       | 2.54        | 2.72     |
| 840  | 3           | 10          | -10        | 7.37         | 1.95    | -3.20   | 11.49   | -1.78      | -4.71      | 0.05       | 2.38        | 2.88     |
| 830  | 3           | 10          | -5         | 7.37         | 1.35    | -1.86   | 11.49   | -1.28      | -5.04      | -0.02      | 2.66        | 2.60     |
| 812  | 3           | 10          | 0          | 7.39         | 1.29    | -1.21   | 11.49   | -0.86      | -4.88      | -0.16      | 2.67        | 2.59     |
| 813  | 3           | 10          | 0          | 7.37         | 1.26    | -1.20   | 11.49   | -0.83      | -4.94      | -0.15      | 2.69        | 2.57     |
| 817  | 3           | 10          | 5          | 7.37         | 1.31    | -0.62   | 11.49   | -0.45      | -4.73      | -0.39      | 2.72        | 2.54     |
| 821  | 3           | 10          | 10         | 7.37         | 1.59    | 0.22    | 11.49   | -0.10      | -4.00      | -0.92      | 2.69        | 2.57     |
| 825  | 3           | 10          | 15         | 7.37         | 2.15    | 1.18    | 11.49   | 0.04       | -2.65      | -1.54      | 2.63        | 2.63     |
| 876  | 3           | 20          | -15        | 7.36         | 3.13    | -6.50   | 11.49   | -0.69      | -4.15      | -0.50      | 2.13        | 2.94     |
| 871  | 3           | 20          | -10        | 7.36         | 1.87    | -3.56   | 11.49   | -1.46      | -4.74      | -0.32      | 2.47        | 2.60     |
| 854  | 3           | 20          | -5         | 7.37         | 1.48    | -2.18   | 11.49   | -1.48      | -5.01      | -0.27      | 2.62        | 2.45     |
| 842  | 3           | 20          | 0          | 7.37         | 1.42    | -1.26   | 11.49   | -1.17      | -4.92      | -0.24      | 2.67        | 2.40     |
| 846  | 3           | 20          | 5          | 7.37         | 1.53    | -0.29   | 11.49   | -0.96      | -4.73      | -0.53      | 2.69        | 2.38     |
| 850  | 3           | 20          | 10         | 7.37         | 1.91    | 0.92    | 11.49   | -0.66      | -4.17      | -1.08      | 2.74        | 2.33     |
| 879  | 3           | 20          | 15         | 7.36         | 2.38    | 1.85    | 11.49   | -0.26      | -3.30      | -1.55      | 2.75        | 2.32     |
| 1054 | 6           | -10         | -15        | 7.35         | 2.34    | -4.44   | 11.49   | -1.79      | -6.72      | 2.54       | 3.23        | 3.19     |
| 1050 | 6           | -10         | -10        | 7.36         | 1.93    | -3.53   | 11.49   | -1.33      | -7.97      | 1.45       | 3.24        | 3.18     |
| 1045 | 6           | -10         | -5         | 7.36         | 1.73    | -2.38   | 11.49   | -0.69      | -8.55      | 0.21       | 3.25        | 3.17     |
| 1012 | 6           | -10         | 0          | 7.34         | 1.66    | -1.49   | 11.49   | -0.10      | -8.31      | -0.64      | 3.25        | 3.17     |
| 1034 | 6           | -10         | 0          | 7.42         | 1.61    | -1.50   | 11.49   | -0.13      | -8.43      | -0.67      | 3.26        | 3.16     |
| 1039 | 6           | -10         | 5          | 7.36         | 1.84    | -0.54   | 11.49   | 0.42       | -8.47      | -1.61      | 3.11        | 3.31     |
| 1016 | 6           | -10         | 10         | 7.34         | 2.33    | 1.04    | 11.49   | 0.82       | -7.90      | -2.90      | 2.98        | 3.44     |
| 1020 | 6           | -10         | 15         | 7.34         | 3.48    | 3.66    | 11.49   | 0.58       | -7.00      | -4.99      | 2.70        | 3.72     |
| 1038 | 6           | -10         | 15         | 7.36         | 3.38    | 3.66    | 11.49   | 0.82       | -7.31      | -4.93      | 2.69        | 3.73     |
| 938  | 6           | 0           | -15        | 7.36         | 2.33    | -4.01   | 11.49   | -2.25      | -7.20      | 2.48       | 3.14        | 3.34     |
| 934  | 6           | 0           | -10        | 7.36         | 1.87    | -3.14   | 11.49   | -1.77      | -7.82      | 1.56       | 3.23        | 3.25     |
| 930  | 6           | 0           | -5         | 7.36         | 1.66    | -2.26   | 11.49   | -1.27      | -8.33      | 0.39       | 3.28        | 3.20     |
| 913  | 6           | 0           | 0          | 7.36         | 1.59    | -1.32   | 11.49   | -0.44      | -8.58      | -0.56      | 3.30        | 3.18     |
| 918  | 6           | 0           | 5          | 7.36         | 1.72    | -0.43   | 11.49   | 0.19       | -8.24      | -1.50      | 3.24        | 3.24     |
| 922  | 6           | 0           | 10         | 7.36         | 2.05    | 0.43    | 11.49   | 0.73       | -7.59      | -2.51      | 3.20        | 3.28     |
| 926  | 6           | 0           | 15         | 7.36         | 2.76    | 1.93    | 11.49   | 0.94       | -6.83      | -4.02      | 3.06        | 3.42     |
| 979  | 6           | 10          | -15        | 7.36         | 2.56    | -4.56   | 11.49   | -2.37      | -8.01      | 2.65       | 2.96        | 3.46     |
| 975  | 6           | 10          | -10        | 7.36         | 1.94    | -2.95   | 11.49   | -2.14      | -8.60      | 1.33       | 3.13        | 3.29     |
| 971  | 6           | 10          | -5         | 7.36         | 1.60    | -1.76   | 11.49   | -1.42      | -8.84      | 0.46       | 3.25        | 3.17     |
| 955  | 6           | 10          | 0          | 7.35         | 1.61    | -0.82   | 11.49   | -0.71      | -8.94      | -0.44      | 3.28        | 3.14     |
| 959  | 6           | 10          | 5          | 7.36         | 1.78    | 0.06    | 11.49   | -0.13      | -8.59      | -1.45      | 3.27        | 3.15     |
| 963  | 6           | 10          | 10         | 7.36         | 2.03    | 0.84    | 11.49   | 0.46       | -7.69      | -2.50      | 3.30        | 3.12     |
| 967  | 6           | 10          | 15         | 7.36         | 2.45    | 1.56    | 11.49   | 1.03       | -7.22      | -3.35      | 3.30        | 3.12     |
| 1003 | 6           | 20          | -15        | 7.36         | 3.03    | -5.85   | 11.49   | -2.12      | -8.11      | 2.78       | 2.82        | 3.41     |
| 999  | 6           | 20          | -10        | 7.36         | 2.08    | -3.45   | 11.49   | -2.12      | -8.48      | 1.42       | 3.08        | 3.15     |
| 995  | 6           | 20          | -5         | 7.36         | 1.68    | -1.93   | 11.49   | -1.74      | -8.66      | 0.41       | 3.24        | 2.99     |
| 983  | 6           | 20          | 0          | 7.36         | 1.62    | -0.70   | 11.49   | -1.12      | -8.70      | -0.46      | 3.33        | 2.90     |
| 987  | 6           | 20          | 5          | 7.36         | 1.86    | 0.71    | 11.49   | -0.54      | -8.49      | -1.67      | 3.37        | 2.86     |
| 991  | 6           | 20          | 10         | 7.36         | 2.27    | 1.77    | 11.49   | 0.02       | -7.91      | -2.82      | 3.37        | 2.86     |
| 1007 | 6           | 20          | 15         | 7.34         | 2.74    | 2.05    | 11.49   | 0.67       | -7.36      | -3.29      | 3.49        | 2.74     |

\* Indicates model was close to heave stop

TABLE A1.113.1 - STABILITY DATA IN WIND AXES WITH AIR TARES

10 deg Deadrise, L/R = 0.117, Cv = 3

| RUN   | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|-------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 755   | 0           | -10         | -15        | 14.67        | 5.70    | -10.16  | 11.49   | 2.48       | 14.05      | -4.12      | 2.81        | 1.28     |
| 758   | 0           | -10         | -15        | 14.74        | 5.68    | -10.32  | 11.49   | 2.27       | 13.97      | -4.25      | 2.82        | 1.27     |
| 751   | 0           | -10         | -10        | 14.68        | 5.58    | -9.84   | 11.49   | 1.24       | 12.81      | -3.85      | 2.53        | 1.56     |
| 747   | 0           | -10         | -5         | 14.67        | 4.63    | -8.39   | 11.49   | -0.01      | 8.57       | -2.94      | 2.46        | 1.63     |
| 734   | 0           | -10         | 0          | 14.71        | 4.29    | -6.25   | 11.49   | -0.71      | 5.64       | -2.91      | 2.47        | 1.62     |
| 738   | 0           | -10         | 5          | 14.68        | 6.02    | -2.42   | 11.49   | -2.24      | 7.49       | -2.61      | 2.10        | 1.99     |
| 742   | 0           | -10         | 10         | 14.68        | 10.20   | 8.52    | 11.49   | -6.00      | 10.03      | -1.16      | 1.57        | 2.52     |
| 666 * | 0           | 0           | -10        | 14.75        | 9.32    | -15.49  | 11.49   | 1.74       | 7.04       | -5.97      | 1.41        | 2.74     |
| 662   | 0           | 0           | -5         | 14.74        | 5.14    | -8.35   | 11.49   | -0.46      | 6.15       | -0.80      | 2.18        | 1.97     |
| 650   | 0           | 0           | 0          | 14.72        | 4.00    | -6.15   | 11.49   | -1.04      | 5.42       | -0.84      | 2.35        | 1.80     |
| 654   | 0           | 0           | 5          | 14.74        | 5.35    | -3.74   | 11.49   | -2.08      | 8.05       | -1.40      | 2.08        | 2.07     |
| 658 * | 0           | 0           | 10         | 14.74        | 9.27    | 3.98    | 11.49   | -4.71      | 11.05      | -2.49      | 1.39        | 2.76     |
| 691 * | 0           | 10          | -10        | 14.74        | 9.97    | -18.80  | 11.49   | 2.52       | 3.04       | -9.92      | 1.40        | 2.69     |
| 687   | 0           | 10          | -5         | 14.75        | 5.35    | -9.34   | 11.49   | -0.72      | 2.73       | -1.99      | 2.07        | 2.02     |
| 670   | 0           | 10          | 0          | 14.73        | 4.00    | -6.49   | 11.49   | -1.54      | 3.14       | 0.49       | 2.40        | 1.69     |
| 674   | 0           | 10          | 5          | 14.74        | 4.34    | -4.67   | 11.49   | -2.09      | 7.18       | 0.78       | 2.31        | 1.78     |
| 678   | 0           | 10          | 10         | 14.74        | 5.44    | -2.24   | 11.49   | -3.06      | 10.44      | 0.50       | 2.36        | 1.73     |
| 683   | 0           | 10          | 15         | 14.75        | 5.53    | -1.69   | 11.49   | -3.20      | 10.43      | 0.75       | 2.67        | 1.42     |
| 730 * | 0           | 20          | -10        | 14.71        | 10.66   | -23.19  | 11.49   | 2.06       | -0.05      | -15.51     | 1.50        | 2.40     |
| 726   | 0           | 20          | -5         | 14.71        | 5.26    | -10.77  | 11.49   | -0.79      | -0.56      | -5.40      | 2.22        | 1.68     |
| 709   | 0           | 20          | 0          | 14.71        | 3.79    | -6.72   | 11.49   | -1.79      | 0.53       | -0.69      | 2.57        | 1.33     |
| 713   | 0           | 20          | 5          | 14.71        | 4.21    | -3.64   | 11.49   | -2.40      | 4.07       | 0.82       | 2.59        | 1.31     |
| 717   | 0           | 20          | 10         | 14.71        | 3.83    | -3.07   | 11.49   | -2.40      | 5.20       | 0.66       | 2.99        | 0.91     |
| 718   | 0           | 20          | 10         | 14.72        | 3.78    | -3.19   | 11.49   | -2.44      | 5.01       | 0.58       | 3.01        | 0.89     |
| 722   | 0           | 20          | 15         | 14.70        | 3.43    | -3.05   | 11.49   | -2.15      | 1.06       | -0.89      | 3.54        | 0.36     |
| 885   | 3           | -10         | -15        | 14.71        | 2.30    | -9.04   | 11.49   | -3.16      | -6.59      | 2.03       | 3.82        | 1.44     |
| 889   | 3           | -10         | -10        | 14.74        | 2.21    | -8.54   | 11.49   | -1.75      | -3.21      | 1.00       | 3.58        | 1.68     |
| 893   | 3           | -10         | -5         | 14.74        | 2.32    | -8.00   | 11.49   | -0.83      | -0.50      | 0.21       | 3.24        | 2.02     |
| 897   | 3           | -10         | 0          | 14.71        | 2.62    | -6.28   | 11.49   | -0.68      | -1.22      | -1.39      | 3.07        | 2.19     |
| 901   | 3           | -10         | 5          | 14.72        | 3.35    | -3.03   | 11.49   | -0.89      | -0.64      | -3.43      | 2.89        | 2.37     |
| 905   | 3           | -10         | 10         | 14.73        | 6.23    | 4.51    | 11.49   | -2.59      | 2.33       | -7.65      | 2.42        | 2.84     |
| 909 * | 3           | -10         | 15         | 14.74        | 14.16   | 20.64   | 11.49   | -8.75      | 9.52       | -9.45      | 1.45        | 3.81     |
| 804   | 3           | 0           | -15        | 14.75        | 4.07    | -10.88  | 11.49   | -1.76      | 0.01       | 3.14       | 3.10        | 2.22     |
| 800   | 3           | 0           | -10        | 14.75        | 2.99    | -8.56   | 11.49   | -1.91      | -0.97      | 1.38       | 3.15        | 2.17     |
| 796   | 3           | 0           | -5         | 14.74        | 2.39    | -7.07   | 11.49   | -1.60      | -1.40      | 0.39       | 3.18        | 2.14     |
| 761   | 3           | 0           | 0          | 14.72        | 2.21    | -6.08   | 11.49   | -1.04      | -2.00      | -0.44      | 3.29        | 2.03     |
| 806   | 3           | 0           | 0          | 14.74        | 2.20    | -6.14   | 11.49   | -1.15      | -1.35      | -0.42      | 3.18        | 2.14     |
| 765   | 3           | 0           | 5          | 14.72        | 2.70    | -4.41   | 11.49   | -0.67      | -1.70      | -1.88      | 3.27        | 2.05     |
| 807   | 3           | 0           | 5          | 14.74        | 2.71    | -4.60   | 11.49   | -0.90      | -1.17      | -1.77      | 3.13        | 2.19     |
| 769   | 3           | 0           | 10         | 14.74        | 3.73    | -1.83   | 11.49   | -0.83      | -0.40      | -4.18      | 3.20        | 2.12     |
| 808   | 3           | 0           | 10         | 14.74        | 3.70    | -1.97   | 11.49   | -1.06      | -0.02      | -4.06      | 3.07        | 2.25     |
| 773   | 3           | 0           | 15         | 14.73        | 6.57    | 3.74    | 11.49   | -2.41      | 3.29       | -8.63      | 2.93        | 2.39     |
| 788   | 3           | 0           | 15         | 14.68        | 6.04    | 2.92    | 11.49   | -2.23      | 2.66       | -8.19      | 2.88        | 2.44     |

\* Indicates model was close to heave stop

TABLE A1.113.2 - STABILITY DATA IN WIND AXES WITH AIR TARES

10 deg Deadrise, L/R = 0.117, Cv = 3

| RUN   | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|-------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 838   | 3           | 10          | -15        | 14.75        | 9.77    | -23.13  | 11.49   | 1.25       | 1.33       | 1.76       | 2.03        | 3.23     |
| 834   | 3           | 10          | -10        | 14.74        | 4.15    | -10.61  | 11.49   | -1.62      | -1.94      | 1.79       | 2.82        | 2.44     |
| 831   | 3           | 10          | -5         | 14.74        | 2.76    | -7.23   | 11.49   | -2.04      | -3.17      | 0.86       | 3.13        | 2.13     |
| 814   | 3           | 10          | 0          | 14.74        | 2.33    | -5.08   | 11.49   | -1.71      | -2.89      | -0.59      | 3.25        | 2.01     |
| 818   | 3           | 10          | 5          | 14.73        | 2.26    | -4.50   | 11.49   | -0.99      | -3.85      | -1.05      | 3.47        | 1.79     |
| 822   | 3           | 10          | 10         | 14.74        | 2.21    | -4.03   | 11.49   | 0.26       | -7.22      | -2.11      | 3.79        | 1.47     |
| 826   | 3           | 10          | 15         | 14.74        | 2.18    | -3.79   | 11.49   | 1.83       | -10.48     | -3.19      | 4.06        | 1.20     |
| 877 * | 3           | 20          | -15        | 14.72        | 14.22   | -34.99  | 11.49   | 3.11       | -1.77      | -8.80      | 1.47        | 3.60     |
| 872   | 3           | 20          | -10        | 14.70        | 5.56    | -14.82  | 11.49   | -0.87      | -3.03      | 0.24       | 2.55        | 2.52     |
| 855   | 3           | 20          | -5         | 14.75        | 3.38    | -8.18   | 11.49   | -2.06      | -3.94      | 0.74       | 2.99        | 2.08     |
| 868   | 3           | 20          | -5         | 14.71        | 3.25    | -7.91   | 11.49   | -2.14      | -4.01      | 0.75       | 3.07        | 2.00     |
| 843   | 3           | 20          | 0          | 14.74        | 2.76    | -4.88   | 11.49   | -2.17      | -4.05      | -0.49      | 3.24        | 1.83     |
| 847   | 3           | 20          | 5          | 14.75        | 2.35    | -2.97   | 11.49   | -1.61      | -5.00      | -2.09      | 3.55        | 1.52     |
| 851   | 3           | 20          | 10         | 14.74        | 2.31    | -2.89   | 11.49   | -0.60      | -8.69      | -3.40      | 4.08        | 0.99     |
| 880   | 3           | 20          | 15         | 14.71        | 2.15    | -3.41   | 11.49   | 0.58       | -11.37     | -3.70      | 4.47        | 0.60     |
| 1055  | 6           | -10         | -15        | 14.72        | 2.25    | -8.92   | 11.49   | -5.04      | -14.64     | 3.29       | 5.10        | 1.32     |
| 1051  | 6           | -10         | -10        | 14.74        | 2.21    | -8.78   | 11.49   | -3.33      | -13.07     | 2.73       | 4.86        | 1.56     |
| 1047  | 6           | -10         | -5         | 14.71        | 2.29    | -8.51   | 11.49   | -1.96      | -10.55     | 1.90       | 4.56        | 1.86     |
| 1013  | 6           | -10         | 0          | 14.67        | 2.26    | -7.56   | 11.49   | -0.64      | -8.59      | 0.59       | 4.29        | 2.13     |
| 1057  | 6           | -10         | 0          | 14.67        | 2.33    | -7.67   | 11.49   | -0.71      | -8.74      | 0.64       | 4.24        | 2.18     |
| 1041  | 6           | -10         | 5          | 14.67        | 2.81    | -4.98   | 11.49   | -0.41      | -8.07      | -2.75      | 4.01        | 2.41     |
| 1017  | 6           | -10         | 10         | 14.67        | 4.34    | -0.05   | 11.49   | -0.61      | -6.29      | -8.03      | 3.70        | 2.72     |
| 1021  | 6           | -10         | 15         | 14.67        | 8.65    | 10.66   | 11.49   | -3.02      | -2.65      | -17.07     | 3.06        | 3.36     |
| 1037  | 6           | -10         | 15         | 14.66        | 8.06    | 9.86    | 11.49   | -2.78      | -2.96      | -16.36     | 3.08        | 3.34     |
| 939   | 6           | 0           | -15        | 14.72        | 2.44    | -7.92   | 11.49   | -4.59      | -10.27     | 1.98       | 4.55        | 1.93     |
| 935   | 6           | 0           | -10        | 14.72        | 1.89    | -7.04   | 11.49   | -3.49      | -10.46     | 0.66       | 4.58        | 1.90     |
| 931   | 6           | 0           | -5         | 14.72        | 1.83    | -6.77   | 11.49   | -2.35      | -10.80     | 0.23       | 4.60        | 1.88     |
| 914   | 6           | 0           | 0          | 14.73        | 1.76    | -6.46   | 11.49   | -1.14      | -11.12     | -0.21      | 4.63        | 1.85     |
| 919   | 6           | 0           | 5          | 14.70        | 1.91    | -6.07   | 11.49   | 0.14       | -10.83     | -0.53      | 4.59        | 1.89     |
| 923   | 6           | 0           | 10         | 14.71        | 2.35    | -5.11   | 11.49   | 1.14       | -10.74     | -2.08      | 4.60        | 1.88     |
| 927   | 6           | 0           | 15         | 14.71        | 3.17    | -3.57   | 11.49   | 1.87       | -10.01     | -4.45      | 4.52        | 1.96     |
| 980   | 6           | 10          | -15        | 14.71        | 4.45    | -12.19  | 11.49   | -2.94      | -6.80      | 6.61       | 3.74        | 2.68     |
| 976   | 6           | 10          | -10        | 14.70        | 2.89    | -7.76   | 11.49   | -3.21      | -8.31      | 2.02       | 4.03        | 2.39     |
| 972   | 6           | 10          | -5         | 14.70        | 2.21    | -5.33   | 11.49   | -2.78      | -9.28      | -0.93      | 4.29        | 2.13     |
| 956   | 6           | 10          | 0          | 14.66        | 1.97    | -4.88   | 11.49   | -1.75      | -11.52     | -1.84      | 4.62        | 1.80     |
| 960   | 6           | 10          | 5          | 14.70        | 1.97    | -4.63   | 11.49   | -0.48      | -13.66     | -2.63      | 4.93        | 1.49     |
| 964   | 6           | 10          | 10         | 14.72        | 2.03    | -4.46   | 11.49   | 1.07       | -15.10     | -3.15      | 5.15        | 1.27     |
| 968   | 6           | 10          | 15         | 14.70        | 2.16    | -4.42   | 11.49   | 2.52       | -15.60     | -3.43      | 5.27        | 1.15     |
| 1004  | 6           | 20          | -15        | 14.71        | 7.17    | -20.03  | 11.49   | -0.54      | -6.10      | 10.03      | 3.17        | 3.06     |
| 1000  | 6           | 20          | -10        | 14.72        | 3.88    | -10.91  | 11.49   | -2.54      | -7.38      | 4.42       | 3.69        | 2.54     |
| 996   | 6           | 20          | -5         | 14.71        | 2.65    | -5.84   | 11.49   | -2.73      | -8.41      | 0.04       | 4.03        | 2.20     |
| 984   | 6           | 20          | 0          | 14.72        | 2.24    | -2.87   | 11.49   | -2.48      | -9.93      | -3.36      | 4.36        | 1.87     |
| 988   | 6           | 20          | 5          | 14.71        | 2.05    | -3.06   | 11.49   | -1.27      | -12.68     | -4.10      | 4.95        | 1.28     |
| 992   | 6           | 20          | 10         | 14.71        | 2.16    | -3.41   | 11.49   | -0.02      | -14.32     | -4.26      | 5.30        | 0.93     |
| 1008  | 6           | 20          | 15         | 14.67        | 2.27    | -3.77   | 11.49   | 1.36       | -15.40     | -4.16      | 5.55        | 0.68     |

\* Indicates model was close to heave stop

TABLE A1.114.1 - STABILITY DATA IN WIND AXES WITH AIR TARES

10 deg Deadrise, L/R = 0.117, Cv = 4

| RUN   | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|-------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 756   | 0           | -10         | -15        | 19.63        | 5.07    | -15.04  | 11.49   | 0.16       | 9.73       | -2.02      | 3.37        | 0.72     |
| 757   | 0           | -10         | -15        | 19.69        | 5.05    | -15.13  | 11.49   | 0.05       | 9.66       | -2.02      | 3.38        | 0.71     |
| 752   | 0           | -10         | -10        | 19.61        | 6.13    | -14.40  | 11.49   | 0.91       | 17.43      | -4.22      | 3.02        | 1.07     |
| 748   | 0           | -10         | -5         | 19.63        | 7.57    | -14.31  | 11.49   | -0.40      | 19.48      | -5.38      | 2.49        | 1.60     |
| 735   | 0           | -10         | 0          | 19.61        | 7.69    | -12.15  | 11.49   | -1.74      | 12.34      | -5.27      | 2.36        | 1.73     |
| 739   | 0           | -10         | 5          | 19.63        | 12.47   | -2.10   | 11.49   | -4.34      | 14.37      | -5.06      | 1.56        | 2.53     |
| 743   | 0           | -10         | 10         | 19.63        | 16.84   | 13.02   | 11.49   | -10.41     | 18.50      | -1.12      | 1.56        | 2.53     |
| 667 * | 0           | 0           | -10        | 19.68        | 15.53   | -26.13  | 11.49   | 2.02       | 15.33      | -12.03     | 1.41        | 2.74     |
| 663   | 0           | 0           | -5         | 19.68        | 10.03   | -14.05  | 11.49   | -0.53      | 15.42      | -2.31      | 1.96        | 2.19     |
| 651   | 0           | 0           | 0          | 19.70        | 7.24    | -11.45  | 11.49   | -1.80      | 13.07      | -1.41      | 2.21        | 1.94     |
| 655   | 0           | 0           | 5          | 19.70        | 8.18    | -8.03   | 11.49   | -3.64      | 16.01      | -2.17      | 2.21        | 1.94     |
| 659 * | 0           | 0           | 10         | 19.67        | 15.13   | 3.71    | 11.49   | -8.29      | 21.11      | -2.59      | 1.40        | 2.75     |
| 692 * | 0           | 10          | -10        | 19.67        | 17.16   | -32.71  | 11.49   | 4.26       | 6.43       | -19.59     | 1.41        | 2.68     |
| 688 * | 0           | 10          | -5         | 19.67        | 12.55   | -19.35  | 11.49   | -0.25      | 8.45       | -8.73      | 1.41        | 2.68     |
| 671   | 0           | 10          | 0          | 19.67        | 7.33    | -11.44  | 11.49   | -2.72      | 8.23       | 1.53       | 2.30        | 1.79     |
| 675   | 0           | 10          | 5          | 19.67        | 6.91    | -9.31   | 11.49   | -3.25      | 14.29      | 1.34       | 2.42        | 1.67     |
| 679   | 0           | 10          | 10         | 19.68        | 5.58    | -8.77   | 11.49   | -2.98      | 10.52      | 1.22       | 2.92        | 1.17     |
| 680   | 0           | 10          | 10         | 19.67        | 5.47    | -8.82   | 11.49   | -2.93      | 10.31      | 1.20       | 2.94        | 1.15     |
| 684   | 0           | 10          | 15         | 19.70        | 5.10    | -7.72   | 11.49   | -2.28      | 5.21       | -0.22      | 3.20        | 0.89     |
| 731 * | 0           | 20          | -10        | 19.61        | 18.19   | -40.41  | 11.49   | 4.81       | 3.75       | -28.29     | 1.50        | 2.40     |
| 727 * | 0           | 20          | -5         | 19.61        | 12.78   | -22.95  | 11.49   | -0.18      | 3.95       | -16.64     | 1.49        | 2.41     |
| 710   | 0           | 20          | 0          | 19.63        | 6.93    | -12.03  | 11.49   | -2.56      | 3.64       | -1.38      | 2.46        | 1.44     |
| 714   | 0           | 20          | 5          | 19.63        | 6.01    | -8.60   | 11.49   | -3.30      | 8.25       | 1.07       | 2.78        | 1.12     |
| 719   | 0           | 20          | 10         | 19.62        | 4.44    | -8.69   | 11.49   | -3.38      | 2.83       | -0.55      | 3.53        | 0.37     |
| 723   | 0           | 20          | 15         | 19.61        | 2.80    | -9.68   | 11.49   | -2.51      | -4.01      | -0.85      | 4.04        | -0.14    |
| 886   | 3           | -10         | -15        | 19.68        | 2.31    | -14.07  | 11.49   | -4.88      | -10.70     | 2.60       | 4.19        | 1.07     |
| 890   | 3           | -10         | -10        | 19.69        | 2.34    | -13.70  | 11.49   | -3.65      | -8.39      | 1.97       | 4.04        | 1.22     |
| 894   | 3           | -10         | -5         | 19.69        | 2.98    | -13.28  | 11.49   | -2.01      | -2.96      | 0.73       | 3.68        | 1.58     |
| 898   | 3           | -10         | 0          | 19.68        | 3.35    | -11.72  | 11.49   | -1.37      | 0.31       | -1.23      | 3.37        | 1.89     |
| 902   | 3           | -10         | 5          | 19.68        | 5.03    | -6.48   | 11.49   | -2.01      | 2.44       | -5.63      | 3.07        | 2.19     |
| 906   | 3           | -10         | 10         | 19.69        | 10.53   | 7.62    | 11.49   | -5.58      | 9.29       | -13.12     | 2.38        | 2.88     |
| 910 * | 3           | -10         | 15         | 19.69        | 24.31   | 36.23   | 11.49   | -15.13     | 21.88      | -15.03     | 1.45        | 3.81     |
| 805   | 3           | 0           | -15        | 19.69        | 4.59    | -15.59  | 11.49   | -3.93      | -2.46      | 3.71       | 3.53        | 1.79     |
| 801   | 3           | 0           | -10        | 19.69        | 3.53    | -13.25  | 11.49   | -3.49      | -2.91      | 1.16       | 3.55        | 1.77     |
| 797   | 3           | 0           | -5         | 19.69        | 2.87    | -12.08  | 11.49   | -2.65      | -2.68      | 0.25       | 3.57        | 1.75     |
| 762   | 3           | 0           | 0          | 19.70        | 2.88    | -11.28  | 11.49   | -1.77      | -2.72      | -0.15      | 3.65        | 1.67     |
| 793   | 3           | 0           | 0          | 19.69        | 2.85    | -11.49  | 11.49   | -1.97      | -2.04      | -0.02      | 3.54        | 1.78     |
| 766   | 3           | 0           | 5          | 19.70        | 3.47    | -9.79   | 11.49   | -1.10      | -3.22      | -1.71      | 3.66        | 1.66     |
| 792   | 3           | 0           | 5          | 19.68        | 3.32    | -10.05  | 11.49   | -1.38      | -2.83      | -1.48      | 3.58        | 1.74     |
| 770   | 3           | 0           | 10         | 19.67        | 4.52    | -7.09   | 11.49   | -0.82      | -2.08      | -4.58      | 3.61        | 1.71     |
| 791   | 3           | 0           | 10         | 19.67        | 4.35    | -7.48   | 11.49   | -1.20      | -1.74      | -4.36      | 3.50        | 1.82     |
| 774   | 3           | 0           | 15         | 19.69        | 7.90    | -0.37   | 11.49   | -2.53      | 2.92       | -11.20     | 3.35        | 1.97     |
| 787   | 3           | 0           | 15         | 19.63        | 7.09    | -1.53   | 11.49   | -2.31      | 1.76       | -10.56     | 3.33        | 1.99     |

\* Indicates model was close to heave stop

TABLE A1.114.2 - STABILITY DATA IN WIND AXES WITH AIR TARES

10 deg Deadrise, L/R = 0.117, Cv = 4

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 839  | 3           | 10          | -15        | 19.68        | 21.08   | -49.61  | 11.49   | 2.58       | 10.85      | -4.31      | 1.54        | 3.72     |
| 835  | 3           | 10          | -10        | 19.69        | 6.21    | -17.29  | 11.49   | -2.25      | 0.57       | 2.88       | 3.01        | 2.25     |
| 829  | 3           | 10          | -5         | 19.70        | 3.99    | -11.74  | 11.49   | -3.16      | -1.69      | 0.38       | 3.37        | 1.89     |
| 815  | 3           | 10          | 0          | 19.70        | 2.91    | -9.98   | 11.49   | -2.53      | -5.07      | -1.09      | 3.71        | 1.55     |
| 819  | 3           | 10          | 5          | 19.69        | 2.42    | -9.57   | 11.49   | -1.45      | -9.56      | -2.22      | 4.02        | 1.24     |
| 823  | 3           | 10          | 10         | 19.69        | 2.31    | -9.40   | 11.49   | -0.32      | -11.97     | -2.78      | 4.23        | 1.03     |
| 827  | 3           | 10          | 15         | 19.69        | 2.31    | -9.31   | 11.49   | 0.95       | -13.04     | -3.13      | 4.33        | 0.93     |
| 873  | 3           | 20          | -10        | 19.67        | 9.74    | -27.82  | 11.49   | -0.28      | -0.20      | -0.12      | 2.45        | 2.62     |
| 874  | 3           | 20          | -10        | 19.69        | 9.61    | -27.46  | 11.49   | -0.14      | -0.32      | -0.14      | 2.24        | 2.83     |
| 869  | 3           | 20          | -5         | 19.67        | 5.07    | -13.41  | 11.49   | -2.99      | -1.76      | 0.65       | 3.18        | 1.89     |
| 844  | 3           | 20          | 0          | 19.73        | 3.85    | -9.09   | 11.49   | -3.64      | -4.23      | -1.71      | 3.56        | 1.51     |
| 848  | 3           | 20          | 5          | 19.70        | 2.65    | -8.48   | 11.49   | -2.52      | -8.34      | -2.78      | 4.10        | 0.97     |
| 852  | 3           | 20          | 10         | 19.73        | 2.33    | -8.98   | 11.49   | -1.32      | -12.55     | -3.14      | 4.58        | 0.49     |
| 881  | 3           | 20          | 15         | 19.69        | 2.03    | -9.41   | 11.49   | 0.11       | -14.68     | -2.87      | 4.83        | 0.24     |
| 1056 | 6           | -10         | -15        | 19.64        | 2.22    | -13.72  | 11.49   | -6.27      | -17.42     | 2.64       | 5.48        | 0.94     |
| 1052 | 6           | -10         | -10        | 19.64        | 2.18    | -13.52  | 11.49   | -4.51      | -16.54     | 2.46       | 5.38        | 1.04     |
| 1048 | 6           | -10         | -5         | 19.64        | 2.27    | -13.21  | 11.49   | -2.96      | -15.35     | 2.12       | 5.22        | 1.20     |
| 1014 | 6           | -10         | 0          | 19.63        | 2.49    | -12.71  | 11.49   | -1.39      | -12.59     | 1.13       | 4.96        | 1.46     |
| 1043 | 6           | -10         | 0          | 19.61        | 2.45    | -12.96  | 11.49   | -1.49      | -13.16     | 1.59       | 4.95        | 1.47     |
| 1042 | 6           | -10         | 5          | 19.61        | 3.13    | -10.52  | 11.49   | -0.73      | -10.66     | -2.01      | 4.69        | 1.73     |
| 1018 | 6           | -10         | 10         | 19.62        | 5.23    | -4.51   | 11.49   | -1.21      | -7.30      | -9.78      | 4.26        | 2.16     |
| 1022 | 6           | -10         | 15         | 19.63        | 11.57   | 11.67   | 11.49   | -5.35      | -1.59      | -26.20     | 3.53        | 2.89     |
| 1036 | 6           | -10         | 15         | 19.62        | 10.45   | 10.10   | 11.49   | -5.06      | -2.03      | -25.07     | 3.56        | 2.86     |
| 940  | 6           | 0           | -15        | 19.70        | 2.11    | -12.77  | 11.49   | -7.00      | -15.51     | 1.46       | 5.26        | 1.22     |
| 936  | 6           | 0           | -10        | 19.67        | 1.88    | -12.35  | 11.49   | -5.40      | -16.13     | 0.77       | 5.30        | 1.18     |
| 932  | 6           | 0           | -5         | 19.69        | 1.83    | -11.87  | 11.49   | -3.74      | -16.45     | 0.10       | 5.33        | 1.15     |
| 915  | 6           | 0           | 0          | 19.68        | 1.88    | -11.31  | 11.49   | -1.93      | -16.44     | -0.51      | 5.31        | 1.17     |
| 916  | 6           | 0           | 0          | 19.68        | 1.84    | -11.36  | 11.49   | -2.00      | -16.60     | -0.54      | 5.32        | 1.16     |
| 920  | 6           | 0           | 5          | 19.69        | 1.92    | -10.97  | 11.49   | -0.27      | -16.26     | -1.09      | 5.33        | 1.15     |
| 924  | 6           | 0           | 10         | 19.69        | 2.18    | -10.61  | 11.49   | 1.37       | -15.80     | -1.69      | 5.28        | 1.20     |
| 928  | 6           | 0           | 15         | 19.69        | 2.56    | -10.10  | 11.49   | 2.77       | -14.75     | -2.61      | 5.26        | 1.22     |
| 981  | 6           | 10          | -15        | 19.67        | 4.82    | -16.72  | 11.49   | -4.76      | -8.39      | 7.14       | 4.44        | 1.98     |
| 977  | 6           | 10          | -10        | 19.67        | 3.05    | -12.29  | 11.49   | -5.09      | -11.05     | 1.18       | 4.75        | 1.67     |
| 973  | 6           | 10          | -5         | 19.68        | 2.21    | -10.65  | 11.49   | -4.30      | -13.48     | -1.38      | 5.08        | 1.34     |
| 957  | 6           | 10          | 0          | 19.62        | 2.05    | -10.45  | 11.49   | -3.14      | -15.77     | -1.94      | 5.27        | 1.15     |
| 961  | 6           | 10          | 5          | 19.68        | 2.00    | -10.41  | 11.49   | -1.71      | -16.54     | -2.17      | 5.41        | 1.01     |
| 965  | 6           | 10          | 10         | 19.67        | 2.03    | -10.21  | 11.49   | -0.16      | -17.11     | -2.42      | 5.49        | 0.93     |
| 969  | 6           | 10          | 15         | 19.67        | 2.09    | -10.06  | 11.49   | 1.41       | -17.39     | -2.65      | 5.55        | 0.87     |
| 1005 | 6           | 20          | -15        | 19.69        | 11.10   | -34.00  | 11.49   | 0.67       | -4.62      | 18.02      | 3.36        | 2.87     |
| 1001 | 6           | 20          | -10        | 19.69        | 4.95    | -17.10  | 11.49   | -3.37      | -7.70      | 6.68       | 4.18        | 2.05     |
| 997  | 6           | 20          | -5         | 19.68        | 3.05    | -10.12  | 11.49   | -4.18      | -9.94      | -1.08      | 4.67        | 1.56     |
| 985  | 6           | 20          | 0          | 19.68        | 2.60    | -7.32   | 11.49   | -3.94      | -12.55     | -5.08      | 5.03        | 1.20     |
| 989  | 6           | 20          | 5          | 19.68        | 2.11    | -8.95   | 11.49   | -2.36      | -15.72     | -3.61      | 5.54        | 0.69     |
| 993  | 6           | 20          | 10         | 19.68        | 2.10    | -9.31   | 11.49   | -0.85      | -16.91     | -3.29      | 5.78        | 0.45     |
| 1010 | 6           | 20          | 10         | 19.61        | 2.04    | -9.52   | 11.49   | -0.98      | -16.87     | -3.17      | 5.78        | 0.45     |
| 1009 | 6           | 20          | 15         | 19.62        | 2.16    | -9.65   | 11.49   | 0.71       | -17.68     | -2.94      | 5.91        | 0.32     |

\* Indicates model was close to heave stop

TABLE A1.120.1 - STABILITY DATA IN WIND AXES WITH AIR TARES

10 deg Deadrise, L/R = 0.234, Cv = 0

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 2471 | 0           | -10         | -15        | 0            | 0.06    | -0.08   | 11.49   | -0.18      | -3.26      | 0.00       | 2.54        | 1.55     |
| 2462 | 0           | -10         | -10        | 0            | 0.02    | -0.06   | 11.49   | 0.10       | -3.24      | 0.02       | 2.51        | 1.58     |
| 2458 | 0           | -10         | -5         | 0            | 0.04    | -0.05   | 11.49   | 0.39       | -3.18      | -0.02      | 2.50        | 1.59     |
| 2427 | 0           | -10         | 0          | 0            | -0.12   | -0.08   | 11.49   | 0.59       | -2.79      | -0.03      | 2.79        | 1.30     |
| 2431 | 0           | -10         | 5          | 0            | -0.02   | -0.04   | 11.49   | 0.90       | -3.04      | 0.06       | 2.68        | 1.41     |
| 2435 | 0           | -10         | 10         | 0            | -0.02   | -0.04   | 11.49   | 1.18       | -2.97      | 0.03       | 2.67        | 1.42     |
| 2454 | 0           | -10         | 15         | 0            | 0.01    | -0.09   | 11.49   | 1.40       | -2.79      | -0.02      | 2.51        | 1.58     |
| 2348 | 0           | 0           | -15        | 0            | 0.04    | -0.07   | 11.49   | -0.86      | -3.34      | 0.01       | 2.62        | 1.53     |
| 2344 | 0           | 0           | -10        | 0            | 0.05    | -0.08   | 11.49   | -0.56      | -3.32      | 0.02       | 2.63        | 1.52     |
| 2340 | 0           | 0           | -5         | 0            | 0.05    | -0.09   | 11.49   | -0.25      | -3.32      | 0.05       | 2.61        | 1.54     |
| 2315 | 0           | 0           | 0          | 0            | 0.03    | -0.04   | 11.49   | 0.05       | -3.25      | 0.01       | 2.61        | 1.54     |
| 2329 | 0           | 0           | 5          | 0            | 0.04    | -0.04   | 11.49   | 0.32       | -3.24      | 0.02       | 2.65        | 1.50     |
| 2336 | 0           | 0           | 10         | 0            | 0.03    | -0.06   | 11.49   | 0.61       | -3.20      | 0.02       | 2.68        | 1.47     |
| 2395 | 0           | 10          | -10        | 0            | 0.10    | -0.16   | 11.49   | -1.24      | -3.38      | 0.05       | 2.55        | 1.54     |
| 2390 | 0           | 10          | -5         | 0            | 0.06    | -0.11   | 11.49   | -0.92      | -3.33      | 0.04       | 2.59        | 1.50     |
| 2373 | 0           | 10          | 0          | 0            | -0.05   | -0.07   | 11.49   | -0.53      | -2.98      | 0.05       | 2.75        | 1.34     |
| 2378 | 0           | 10          | 5          | 0            | 0.07    | -0.10   | 11.49   | -0.29      | -3.31      | 0.04       | 2.60        | 1.49     |
| 2382 | 0           | 10          | 10         | 0            | 0.07    | -0.06   | 11.49   | 0.05       | -3.37      | 0.02       | 2.57        | 1.52     |
| 2386 | 0           | 10          | 15         | 0            | 0.07    | -0.08   | 11.49   | 0.27       | -3.36      | 0.04       | 2.59        | 1.50     |
| 2422 | 0           | 20          | -15        | 0            | 0.07    | -0.05   | 11.49   | -1.60      | -3.20      | 0.00       | 2.66        | 1.24     |
| 2419 | 0           | 20          | -10        | 0            | 0.08    | -0.09   | 11.49   | -1.30      | -3.24      | 0.02       | 2.68        | 1.22     |
| 2415 | 0           | 20          | -5         | 0            | 0.06    | -0.10   | 11.49   | -1.02      | -3.29      | 0.02       | 2.69        | 1.21     |
| 2399 | 0           | 20          | 0          | 0            | 0.03    | -0.05   | 11.49   | -0.69      | -3.23      | 0.06       | 2.74        | 1.16     |
| 2403 | 0           | 20          | 0          | 0            | 0.07    | -0.09   | 11.49   | -0.73      | -3.31      | 0.04       | 2.71        | 1.19     |
| 2407 | 0           | 20          | 10         | 0            | 0.06    | -0.07   | 11.49   | -0.12      | -3.35      | 0.02       | 2.72        | 1.18     |
| 2411 | 0           | 20          | 15         | 0            | 0.05    | -0.09   | 11.49   | 0.17       | -3.40      | 0.04       | 2.69        | 1.21     |
| 2599 | 3           | -10         | -15        | 0            | -0.02   | -0.01   | 11.49   | -1.82      | -8.85      | 0.02       | 2.78        | 2.48     |
| 2595 | 3           | -10         | -10        | 0            | 0.00    | -0.02   | 11.49   | -1.04      | -8.90      | 0.01       | 2.77        | 2.49     |
| 2590 | 3           | -10         | -5         | 0            | 0.10    | -0.02   | 11.49   | -0.34      | -8.75      | -0.02      | 2.75        | 2.51     |
| 2585 | 3           | -10         | 0          | 0            | 0.01    | -0.01   | 11.49   | 0.53       | -8.90      | 0.04       | 2.76        | 2.50     |
| 2603 | 3           | -10         | 5          | 0            | 0.02    | 0.02    | 11.49   | 1.33       | -8.82      | 0.02       | 2.77        | 2.49     |
| 2607 | 3           | -10         | 10         | 0            | 0.02    | 0.01    | 11.49   | 2.09       | -8.74      | 0.02       | 2.77        | 2.49     |
| 2611 | 3           | -10         | 15         | 0            | 0.02    | 0.00    | 11.49   | 2.85       | -8.53      | 0.02       | 2.78        | 2.48     |
| 2501 | 3           | 0           | -15        | 0            | -0.01   | 0.01    | 11.49   | -2.30      | -9.00      | 0.01       | 2.79        | 2.53     |
| 2497 | 3           | 0           | -10        | 0            | 0.02    | -0.01   | 11.49   | -1.51      | -9.13      | 0.02       | 2.78        | 2.54     |
| 2493 | 3           | 0           | -5         | 0            | 0.01    | 0.03    | 11.49   | -0.72      | -9.26      | 0.02       | 2.78        | 2.54     |
| 2477 | 3           | 0           | 0          | 0            | 0.02    | -0.03   | 11.49   | 0.06       | -9.23      | 0.03       | 2.79        | 2.53     |
| 2481 | 3           | 0           | 5          | 0            | 0.06    | -0.03   | 11.49   | 0.91       | -9.21      | 0.04       | 2.77        | 2.55     |
| 2485 | 3           | 0           | 10         | 0            | 0.05    | -0.01   | 11.49   | 1.71       | -9.07      | 0.04       | 2.78        | 2.54     |
| 2489 | 3           | 0           | 15         | 0            | 0.05    | -0.01   | 11.49   | 2.48       | -8.89      | 0.04       | 2.78        | 2.54     |

\* Indicates model was close to heave stop

TABLE A1.120.2 - STABILITY DATA IN WIND AXES WITH AIR TARES

10 deg Deadrise, L/R = 0.234, Cv = 0

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 2535 | 3           | 10          | -15        | 0            | 0.02    | 0.01    | 11.49   | -2.64      | -8.58      | -0.02      | 2.77        | 2.49     |
| 2519 | 3           | 10          | -10        | 0            | 0.02    | 0.02    | 11.49   | -1.89      | -8.83      | 0.01       | 2.80        | 2.46     |
| 2515 | 3           | 10          | -5         | 0            | 0.05    | 0.00    | 11.49   | -1.13      | -8.89      | 0.02       | 2.80        | 2.46     |
| 2507 | 3           | 10          | 0          | 0            | 0.04    | 0.03    | 11.49   | -0.34      | -8.97      | 0.02       | 2.78        | 2.48     |
| 2511 | 3           | 10          | 5          | 0            | 0.06    | 0.02    | 11.49   | 0.46       | -8.95      | 0.04       | 2.80        | 2.46     |
| 2540 | 3           | 10          | 10         | 0            | 0.02    | 0.06    | 11.49   | 1.28       | -9.09      | 0.01       | 2.74        | 2.52     |
| 2545 | 3           | 10          | 15         | 0            | 0.06    | 0.03    | 11.49   | 2.03       | -8.85      | 0.03       | 2.76        | 2.50     |
| 2578 | 3           | 20          | -15        | 0            | 0.00    | 0.00    | 11.49   | -2.78      | -8.16      | 0.02       | 2.78        | 2.29     |
| 2574 | 3           | 20          | -10        | 0            | 0.03    | 0.02    | 11.49   | -2.02      | -8.30      | 0.02       | 2.79        | 2.28     |
| 2570 | 3           | 20          | -5         | 0            | 0.04    | -0.01   | 11.49   | -1.31      | -8.48      | 0.03       | 2.80        | 2.27     |
| 2566 | 3           | 20          | 0          | 0            | 0.00    | 0.04    | 11.49   | -0.54      | -8.55      | 0.03       | 2.80        | 2.27     |
| 2561 | 3           | 20          | 5          | 0            | 0.05    | 0.03    | 11.49   | 0.19       | -8.52      | 0.03       | 2.80        | 2.27     |
| 2556 | 3           | 20          | 10         | 0            | 0.05    | 0.02    | 11.49   | 0.91       | -8.47      | 0.04       | 2.79        | 2.28     |
| 2552 | 3           | 20          | 15         | 0            | 0.03    | 0.07    | 11.49   | 1.69       | -8.39      | 0.01       | 2.78        | 2.29     |
| 3309 | 6           | -10         | -15        | 0            | -0.05   | 0.01    | 11.49   | -2.77      | -11.97     | 0.03       | 3.27        | 3.15     |
| 3305 | 6           | -10         | -10        | 0            | -0.05   | 0.02    | 11.49   | -1.73      | -12.13     | 0.05       | 3.28        | 3.14     |
| 3301 | 6           | -10         | -5         | 0            | -0.01   | -0.01   | 11.49   | -0.69      | -12.35     | 0.01       | 3.24        | 3.18     |
| 3284 | 6           | -10         | 0          | 0            | 0.01    | 0.06    | 11.49   | 0.39       | -11.94     | 0.03       | 3.26        | 3.16     |
| 3288 | 6           | -10         | 5          | 0            | -0.04   | 0.03    | 11.49   | 1.47       | -12.14     | 0.05       | 3.22        | 3.20     |
| 3293 | 6           | -10         | 10         | 0            | -0.01   | 0.04    | 11.49   | 2.55       | -11.99     | 0.03       | 3.23        | 3.19     |
| 3297 | 6           | -10         | 15         | 0            | 0.02    | 0.09    | 11.49   | 3.61       | -11.74     | 0.05       | 3.25        | 3.17     |
| 2658 | 6           | 0           | -15        | 0            | -0.02   | 0.00    | 11.49   | -3.10      | -11.97     | 0.10       | 3.18        | 3.30     |
| 2654 | 6           | 0           | -10        | 0            | -0.01   | 0.04    | 11.49   | -1.99      | -12.26     | 0.02       | 3.18        | 3.30     |
| 2650 | 6           | 0           | -5         | 0            | -0.00   | 0.02    | 11.49   | -0.96      | -12.27     | 0.08       | 3.17        | 3.31     |
| 2615 | 6           | 0           | 0          | 0            | 0.02    | 0.03    | 11.49   | 0.13       | -12.35     | 0.02       | 3.20        | 3.28     |
| 2620 | 6           | 0           | 5          | 0            | 0.00    | 0.03    | 11.49   | 1.23       | -12.38     | 0.05       | 3.19        | 3.29     |
| 2642 | 6           | 0           | 10         | 0            | 0.11    | 0.05    | 11.49   | 2.20       | -11.85     | 0.05       | 3.17        | 3.31     |
| 2646 | 6           | 0           | 15         | 0            | 0.03    | 0.07    | 11.49   | 3.32       | -11.86     | 0.05       | 3.16        | 3.32     |
| 2688 | 6           | 10          | -15        | 0            | -0.02   | 0.03    | 11.49   | -3.30      | -11.64     | 0.09       | 3.24        | 3.18     |
| 2683 | 6           | 10          | -10        | 0            | -0.00   | 0.02    | 11.49   | -2.28      | -11.95     | 0.06       | 3.23        | 3.19     |
| 2679 | 6           | 10          | -5         | 0            | -0.00   | 0.03    | 11.49   | -1.22      | -12.04     | 0.07       | 3.23        | 3.19     |
| 2663 | 6           | 10          | 0          | 0            | 0.01    | 0.16    | 11.49   | -0.09      | -12.18     | 0.10       | 3.18        | 3.24     |
| 2667 | 6           | 10          | 5          | 0            | 0.02    | 0.05    | 11.49   | 0.93       | -12.20     | 0.02       | 3.21        | 3.21     |
| 2671 | 6           | 10          | 10         | 0            | 0.00    | 0.02    | 11.49   | 1.92       | -12.01     | 0.12       | 3.22        | 3.20     |
| 2675 | 6           | 10          | 15         | 0            | 0.02    | 0.03    | 11.49   | 2.95       | -11.80     | 0.11       | 3.21        | 3.21     |
| 2701 | 6           | 20          | -15        | 0            | 0.00    | 0.02    | 11.49   | -3.34      | -11.06     | 0.01       | 3.09        | 3.14     |
| 2705 | 6           | 20          | -5         | 0            | 0.01    | 0.04    | 11.49   | -1.34      | -11.51     | 0.03       | 3.09        | 3.14     |
| 2695 | 6           | 20          | 0          | 0            | -0.02   | 0.02    | 11.49   | -0.38      | -11.47     | 0.03       | 3.26        | 2.97     |
| 2709 | 6           | 20          | 0          | 0            | 0.03    | 0.04    | 11.49   | -0.37      | -11.58     | 0.04       | 3.09        | 3.14     |
| 2713 | 6           | 20          | 5          | 0            | 0.05    | 0.06    | 11.49   | 0.67       | -11.59     | 0.03       | 3.10        | 3.13     |
| 2717 | 6           | 20          | 10         | 0            | 0.04    | 0.06    | 11.49   | 1.68       | -11.42     | 0.02       | 3.10        | 3.13     |
| 2735 | 6           | 20          | 10         | 0            | 0.01    | 0.02    | 11.49   | 1.59       | -11.43     | 0.07       | 3.20        | 3.03     |
| 2738 | 6           | 20          | 15         | 0            | 0.02    | 0.00    | 11.49   | 2.60       | -11.28     | 0.09       | 3.16        | 3.07     |

\* Indicates model was close to heave stop



TABLE A1.121.1 - STABILITY DATA IN WIND AXES WITH AIR TARES

10 deg Deadrise, L/R = 0.234, Cv = 1.5

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|--------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 2472   | 0           | -10         | -15        | 7.34         | 2.60    | -5.93   | 11.49   | 0.74       | 2.52       | -3.07      | 2.07        | 2.02     |
| 2463   | 0           | -10         | -10        | 7.36         | 1.90    | -4.89   | 11.49   | 0.36       | 1.94       | -2.26      | 2.18        | 1.91     |
| 2459   | 0           | -10         | -5         | 7.36         | 1.56    | -4.13   | 11.49   | 0.16       | 1.66       | -1.54      | 2.25        | 1.84     |
| 2428   | 0           | -10         | 0          | 7.36         | 0.91    | -3.60   | 11.49   | -0.12      | 1.11       | -0.73      | 2.62        | 1.47     |
| 2432   | 0           | -10         | 5          | 7.36         | 1.42    | -2.98   | 11.49   | -0.38      | 1.75       | -0.35      | 2.35        | 1.74     |
| 2436   | 0           | -10         | 10         | 7.36         | 2.07    | -1.56   | 11.49   | -1.33      | 2.91       | 0.32       | 2.08        | 2.01     |
| 2455 * | 0           | -10         | 15         | 7.35         | 4.09    | 1.60    | 11.49   | -3.49      | 4.95       | 1.96       | 1.39        | 2.70     |
| 2349   | 0           | 0           | -15        | 7.37         | 3.27    | -7.19   | 11.49   | 0.77       | 0.51       | -5.18      | 1.86        | 2.29     |
| 2345   | 0           | 0           | -10        | 7.37         | 2.02    | -5.02   | 11.49   | 0.06       | 0.67       | -2.49      | 2.20        | 1.95     |
| 2341   | 0           | 0           | -5         | 7.37         | 1.61    | -4.18   | 11.49   | -0.23      | 0.93       | -1.32      | 2.31        | 1.84     |
| 2316   | 0           | 0           | 0          | 7.51         | 1.41    | -3.77   | 11.49   | -0.52      | 1.50       | -0.56      | 2.37        | 1.78     |
| 2318   | 0           | 0           | 0          | 7.35         | 1.38    | -3.59   | 11.49   | -0.45      | 1.45       | -0.59      | 2.37        | 1.78     |
| 2330   | 0           | 0           | 5          | 7.36         | 1.46    | -3.23   | 11.49   | -0.76      | 1.78       | -0.11      | 2.36        | 1.79     |
| 2335   | 0           | 0           | 10         | 7.36         | 1.82    | -2.65   | 11.49   | -1.23      | 2.43       | 0.51       | 2.24        | 1.91     |
| 2396   | 0           | 10          | -10        | 7.38         | 2.40    | -6.20   | 11.49   | -0.36      | -0.37      | -3.59      | 2.02        | 2.07     |
| 2391   | 0           | 10          | -5         | 7.37         | 1.63    | -4.43   | 11.49   | -0.86      | 0.15       | -1.74      | 2.27        | 1.82     |
| 2374   | 0           | 10          | 0          | 7.37         | 1.07    | -3.62   | 11.49   | -1.00      | 0.42       | -0.57      | 2.56        | 1.53     |
| 2379   | 0           | 10          | 5          | 7.36         | 1.45    | -3.16   | 11.49   | -1.19      | 1.48       | -0.11      | 2.37        | 1.72     |
| 2383   | 0           | 10          | 10         | 7.36         | 1.79    | -2.49   | 11.49   | -1.49      | 2.48       | 0.52       | 2.28        | 1.81     |
| 2387   | 0           | 10          | 15         | 7.36         | 2.35    | -1.59   | 11.49   | -2.04      | 3.37       | 1.23       | 2.17        | 1.92     |
| 2423 * | 0           | 20          | -15        | 7.36         | 5.01    | -12.00  | 11.49   | 0.58       | -1.93      | -9.76      | 1.51        | 2.39     |
| 2420   | 0           | 20          | -10        | 7.36         | 2.48    | -7.22   | 11.49   | -0.52      | -1.33      | -4.72      | 2.09        | 1.81     |
| 2416   | 0           | 20          | -5         | 7.36         | 1.59    | -4.68   | 11.49   | -1.06      | -0.87      | -2.33      | 2.37        | 1.53     |
| 2400   | 0           | 20          | 0          | 7.36         | 1.17    | -3.48   | 11.49   | -1.18      | -0.37      | -1.10      | 2.55        | 1.35     |
| 2404   | 0           | 20          | 5          | 7.36         | 1.38    | -2.84   | 11.49   | -1.38      | 0.24       | -0.53      | 2.49        | 1.41     |
| 2408   | 0           | 20          | 10         | 7.37         | 1.69    | -1.81   | 11.49   | -1.54      | 0.91       | 0.06       | 2.48        | 1.42     |
| 2412   | 0           | 20          | 15         | 7.36         | 2.31    | -0.73   | 11.49   | -1.89      | 2.03       | 0.76       | 2.44        | 1.46     |
| 2600   | 3           | -10         | -15        | 7.36         | 2.01    | -5.62   | 11.49   | -0.79      | -1.94      | 0.22       | 2.65        | 2.61     |
| 2596   | 3           | -10         | -10        | 7.36         | 1.52    | -4.53   | 11.49   | -0.75      | -3.60      | -0.45      | 2.71        | 2.55     |
| 2591   | 3           | -10         | -5         | 7.36         | 1.39    | -3.80   | 11.49   | -0.55      | -3.94      | -0.77      | 2.71        | 2.55     |
| 2586   | 3           | -10         | 0          | 7.35         | 1.20    | -3.17   | 11.49   | -0.15      | -4.34      | -0.87      | 2.66        | 2.60     |
| 2604   | 3           | -10         | 5          | 7.35         | 1.47    | -2.19   | 11.49   | 0.20       | -3.89      | -1.26      | 2.58        | 2.68     |
| 2608   | 3           | -10         | 10         | 7.35         | 2.01    | -0.85   | 11.49   | -0.07      | -2.94      | -1.86      | 2.39        | 2.87     |
| 2612   | 3           | -10         | 15         | 7.35         | 3.58    | 2.17    | 11.49   | -1.36      | -0.98      | -2.98      | 2.01        | 3.25     |
| 2502   | 3           | 0           | -15        | 7.35         | 1.88    | -5.04   | 11.49   | -1.61      | -3.83      | 0.02       | 2.60        | 2.72     |
| 2498   | 3           | 0           | -10        | 7.35         | 1.51    | -4.29   | 11.49   | -1.41      | -4.58      | -0.10      | 2.71        | 2.61     |
| 2494   | 3           | 0           | -5         | 7.35         | 1.28    | -3.62   | 11.49   | -1.00      | -4.91      | -0.29      | 2.77        | 2.55     |
| 2478   | 3           | 0           | 0          | 7.34         | 1.19    | -3.14   | 11.49   | -0.58      | -4.79      | -0.53      | 2.78        | 2.54     |
| 2482   | 3           | 0           | 5          | 7.34         | 1.43    | -2.48   | 11.49   | -0.12      | -4.26      | -0.91      | 2.69        | 2.63     |
| 2486   | 3           | 0           | 10         | 7.35         | 1.80    | -1.53   | 11.49   | -0.01      | -3.26      | -1.47      | 2.56        | 2.76     |
| 2490   | 3           | 0           | 15         | 7.35         | 2.66    | 0.03    | 11.49   | -0.52      | -1.45      | -2.27      | 2.32        | 3.00     |

\* Indicates model was close to heave stop

TABLE A1.121.2 - STABILITY DATA IN WIND AXES WITH AIR TARES

10 deg Deadrise, L/R = 0.234, Cv = 1.5

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 2536 | 3           | 10          | -15        | 7.34         | 2.26    | -6.15   | 11.49   | -1.65      | -5.25      | -0.54      | 2.39        | 2.87     |
| 2520 | 3           | 10          | -10        | 7.35         | 1.62    | -4.52   | 11.49   | -1.71      | -5.49      | -0.43      | 2.63        | 2.63     |
| 2516 | 3           | 10          | -5         | 7.35         | 1.38    | -3.58   | 11.49   | -1.43      | -5.45      | -0.33      | 2.74        | 2.52     |
| 2508 | 3           | 10          | 0          | 7.35         | 1.30    | -2.92   | 11.49   | -0.95      | -5.19      | -0.46      | 2.76        | 2.50     |
| 2512 | 3           | 10          | 5          | 7.35         | 1.42    | -2.26   | 11.49   | -0.49      | -4.69      | -0.71      | 2.80        | 2.46     |
| 2541 | 3           | 10          | 10         | 7.35         | 1.73    | -1.41   | 11.49   | -0.13      | -4.10      | -1.21      | 2.70        | 2.56     |
| 2546 | 3           | 10          | 15         | 7.35         | 2.36    | -0.44   | 11.49   | -0.10      | -2.51      | -1.93      | 2.63        | 2.63     |
| 2579 | 3           | 20          | -15        | 7.36         | 3.02    | -8.34   | 11.49   | -1.29      | -5.56      | -1.50      | 2.23        | 2.84     |
| 2575 | 3           | 20          | -10        | 7.35         | 1.77    | -5.12   | 11.49   | -1.69      | -5.69      | -0.90      | 2.55        | 2.52     |
| 2571 | 3           | 20          | -5         | 7.35         | 1.44    | -3.69   | 11.49   | -1.61      | -5.59      | -0.66      | 2.71        | 2.36     |
| 2567 | 3           | 20          | 0          | 7.35         | 1.41    | -2.79   | 11.49   | -1.22      | -5.28      | -0.71      | 2.76        | 2.31     |
| 2562 | 3           | 20          | 5          | 7.35         | 1.58    | -1.69   | 11.49   | -0.91      | -4.93      | -1.01      | 2.79        | 2.28     |
| 2557 | 3           | 20          | 10         | 7.35         | 1.95    | -0.74   | 11.49   | -0.55      | -4.51      | -1.39      | 2.82        | 2.25     |
| 2558 | 3           | 20          | 10         | 7.35         | 1.95    | -0.72   | 11.49   | -0.50      | -4.53      | -1.42      | 2.81        | 2.26     |
| 2553 | 3           | 20          | 15         | 7.35         | 2.38    | 0.00    | 11.49   | -0.02      | -4.00      | -1.90      | 2.90        | 2.17     |
| 3310 | 6           | -10         | -15        | 7.34         | 2.16    | -5.84   | 11.49   | -1.96      | -6.77      | 2.14       | 3.45        | 2.97     |
| 3306 | 6           | -10         | -10        | 7.33         | 1.74    | -4.93   | 11.49   | -1.49      | -7.74      | 1.06       | 3.46        | 2.96     |
| 3302 | 6           | -10         | -5         | 7.33         | 1.60    | -3.88   | 11.49   | -0.91      | -8.47      | -0.22      | 3.39        | 3.03     |
| 3285 | 6           | -10         | 0          | 7.34         | 1.67    | -2.88   | 11.49   | -0.27      | -8.48      | -1.15      | 3.29        | 3.13     |
| 3289 | 6           | -10         | 5          | 7.34         | 1.81    | -1.76   | 11.49   | 0.41       | -8.14      | -2.15      | 3.22        | 3.20     |
| 3294 | 6           | -10         | 10         | 7.33         | 2.45    | 0.01    | 11.49   | 0.64       | -7.42      | -3.77      | 3.05        | 3.37     |
| 3298 | 6           | -10         | 15         | 7.33         | 3.70    | 2.78    | 11.49   | 0.39       | -6.36      | -5.98      | 2.76        | 3.66     |
| 2659 | 6           | 0           | -15        | 7.36         | 2.10    | -5.29   | 11.49   | -2.45      | -7.67      | 2.08       | 3.26        | 3.22     |
| 2655 | 6           | 0           | -10        | 7.35         | 1.72    | -4.38   | 11.49   | -1.89      | -8.33      | 1.05       | 3.33        | 3.15     |
| 2651 | 6           | 0           | -5         | 7.36         | 1.48    | -3.48   | 11.49   | -1.21      | -8.62      | 0.06       | 3.38        | 3.10     |
| 2616 | 6           | 0           | 0          | 7.35         | 1.50    | -2.72   | 11.49   | -0.55      | -8.78      | -0.94      | 3.36        | 3.12     |
| 2621 | 6           | 0           | 5          | 7.35         | 1.66    | -1.87   | 11.49   | 0.19       | -8.21      | -1.91      | 3.32        | 3.16     |
| 2643 | 6           | 0           | 10         | 7.35         | 2.06    | -0.84   | 11.49   | 0.68       | -7.47      | -3.03      | 3.19        | 3.29     |
| 2647 | 6           | 0           | 15         | 7.35         | 2.97    | 0.82    | 11.49   | 0.89       | -6.52      | -4.84      | 3.05        | 3.43     |
| 2689 | 6           | 10          | -15        | 7.35         | 2.28    | -5.56   | 11.49   | -2.71      | -8.57      | 2.01       | 3.19        | 3.23     |
| 2684 | 6           | 10          | -10        | 7.35         | 1.82    | -4.16   | 11.49   | -2.29      | -8.93      | 0.87       | 3.33        | 3.09     |
| 2680 | 6           | 10          | -5         | 7.35         | 1.65    | -3.19   | 11.49   | -1.54      | -8.93      | 0.04       | 3.40        | 3.02     |
| 2664 | 6           | 10          | 0          | 7.35         | 1.66    | -2.18   | 11.49   | -0.76      | -8.88      | -0.82      | 3.40        | 3.02     |
| 2668 | 6           | 10          | 5          | 7.35         | 1.84    | -1.36   | 11.49   | -0.14      | -8.52      | -1.93      | 3.43        | 2.99     |
| 2672 | 6           | 10          | 10         | 7.36         | 2.13    | -0.62   | 11.49   | 0.49       | -7.66      | -2.80      | 3.43        | 2.99     |
| 2676 | 6           | 10          | 15         | 7.36         | 2.56    | -0.07   | 11.49   | 1.08       | -7.12      | -3.60      | 3.46        | 2.96     |
| 2702 | 6           | 20          | -15        | 7.36         | 2.57    | -6.45   | 11.49   | -2.52      | -8.68      | 1.75       | 2.93        | 3.30     |
| 2696 | 6           | 20          | -10        | 7.35         | 1.81    | -4.53   | 11.49   | -2.34      | -8.93      | 0.71       | 3.26        | 2.97     |
| 2697 | 6           | 20          | -10        | 7.35         | 1.89    | -4.56   | 11.49   | -2.33      | -8.94      | 0.70       | 3.23        | 3.00     |
| 2706 | 6           | 20          | -5         | 7.35         | 1.66    | -3.22   | 11.49   | -1.79      | -9.07      | -0.13      | 3.19        | 3.04     |
| 2710 | 6           | 20          | 0          | 7.35         | 1.67    | -1.85   | 11.49   | -1.17      | -8.95      | -1.17      | 3.27        | 2.96     |
| 2714 | 6           | 20          | 5          | 7.35         | 1.94    | -0.51   | 11.49   | -0.55      | -8.66      | -2.33      | 3.36        | 2.87     |
| 2718 | 6           | 20          | 10         | 7.35         | 2.30    | 0.17    | 11.49   | 0.23       | -7.99      | -3.17      | 3.42        | 2.81     |
| 2739 | 6           | 20          | 15         | 7.35         | 2.62    | 0.22    | 11.49   | 1.01       | -7.77      | -3.36      | 3.67        | 2.56     |

\* Indicates model was close to heave stop

TABLE A1.123.1 - STABILITY DATA IN WIND AXES WITH AIR TARES

10 deg Deadrise, L/R = 0.234, Cv = 3

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|--------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 2473   | 0           | -10         | -15        | 14.71        | 6.49    | -19.12  | 11.49   | 1.10       | 15.73      | -5.57      | 2.70        | 1.39     |
| 2464   | 0           | -10         | -10        | 14.75        | 6.23    | -18.22  | 11.49   | 0.04       | 14.18      | -5.19      | 2.37        | 1.72     |
| 2470   | 0           | -10         | -10        | 14.72        | 6.13    | -18.15  | 11.49   | -0.06      | 14.00      | -5.13      | 2.41        | 1.68     |
| 2460   | 0           | -10         | -5         | 14.74        | 4.97    | -16.36  | 11.49   | -1.29      | 9.37       | -4.24      | 2.32        | 1.77     |
| 2429   | 0           | -10         | 0          | 14.74        | 3.79    | -14.01  | 11.49   | -1.91      | 6.25       | -3.47      | 2.59        | 1.50     |
| 2433   | 0           | -10         | 5          | 14.74        | 6.20    | -9.38   | 11.49   | -3.47      | 9.40       | -5.36      | 2.06        | 2.03     |
| 2437 * | 0           | -10         | 10         | 14.75        | 11.08   | 3.30    | 11.49   | -7.09      | 12.67      | -4.40      | 1.38        | 2.71     |
| 2457 * | 0           | -10         | 15         | 14.73        | 16.16   | 14.09   | 11.49   | -12.62     | 17.11      | -3.33      | 1.26        | 2.83     |
| 2350 * | 0           | 0           | -15        | 14.76        | 14.95   | -35.07  | 11.49   | 2.16       | 4.12       | -20.28     | 1.52        | 2.63     |
| 2346   | 0           | 0           | -10        | 14.75        | 8.06    | -21.65  | 11.49   | -0.17      | 6.00       | -7.35      | 2.05        | 2.10     |
| 2342   | 0           | 0           | -5         | 14.75        | 5.17    | -16.37  | 11.49   | -1.72      | 4.85       | -2.32      | 2.44        | 1.71     |
| 2319   | 0           | 0           | 0          | 15.01        | 4.15    | -14.34  | 11.49   | -2.20      | 5.01       | -1.70      | 2.53        | 1.62     |
| 2320   | 0           | 0           | 0          | 14.72        | 3.97    | -13.86  | 11.49   | -2.16      | 4.77       | -1.62      | 2.54        | 1.61     |
| 2331   | 0           | 0           | 5          | 14.74        | 5.16    | -11.15  | 11.49   | -3.17      | 8.13       | -2.67      | 2.28        | 1.87     |
| 2332   | 0           | 0           | 5          | 14.76        | 5.17    | -11.19  | 11.49   | -3.16      | 8.10       | -2.69      | 2.28        | 1.87     |
| 2337 * | 0           | 0           | 10         | 14.75        | 10.34   | 0.72    | 11.49   | -6.12      | 11.66      | -6.35      | 1.42        | 2.73     |
| 2338 * | 0           | 0           | 10         | 14.76        | 10.45   | 0.68    | 11.49   | -6.12      | 11.88      | -6.44      | 1.42        | 2.73     |
| 2397 * | 0           | 10          | -10        | 14.79        | 11.18   | -30.78  | 11.49   | -0.22      | -3.88      | -19.94     | 1.51        | 2.58     |
| 2392   | 0           | 10          | -5         | 14.75        | 5.47    | -17.36  | 11.49   | -1.98      | -0.69      | -4.09      | 2.31        | 1.78     |
| 2375   | 0           | 10          | 0          | 14.76        | 4.06    | -13.90  | 11.49   | -2.38      | 1.66       | -0.75      | 2.56        | 1.53     |
| 2380   | 0           | 10          | 5          | 14.74        | 4.45    | -11.89  | 11.49   | -2.88      | 5.80       | -0.08      | 2.51        | 1.58     |
| 2384   | 0           | 10          | 10         | 14.76        | 5.56    | -9.11   | 11.49   | -3.80      | 9.51       | -0.98      | 2.51        | 1.58     |
| 2388   | 0           | 10          | 15         | 14.75        | 5.24    | -9.33   | 11.49   | -3.37      | 8.77       | 0.01       | 2.94        | 1.15     |
| 2421 * | 0           | 20          | -10        | 14.75        | 12.03   | -34.65  | 11.49   | 0.27       | -5.15      | -26.70     | 1.53        | 2.37     |
| 2417   | 0           | 20          | -5         | 14.73        | 5.55    | -19.00  | 11.49   | -2.00      | -3.89      | -8.05      | 2.35        | 1.55     |
| 2401   | 0           | 20          | 0          | 14.73        | 4.19    | -14.07  | 11.49   | -2.63      | -0.95      | -2.08      | 2.60        | 1.30     |
| 2405   | 0           | 20          | 5          | 14.74        | 4.15    | -10.86  | 11.49   | -2.92      | 0.93       | -0.16      | 2.81        | 1.09     |
| 2409   | 0           | 20          | 10         | 14.73        | 3.93    | -9.86   | 11.49   | -2.63      | 1.78       | -0.89      | 3.19        | 0.71     |
| 2413   | 0           | 20          | 15         | 14.74        | 3.66    | -9.96   | 11.49   | -2.54      | -0.67      | -1.69      | 3.72        | 0.18     |
| 2601   | 3           | -10         | -15        | 14.72        | 2.31    | -16.17  | 11.49   | -3.61      | -4.80      | 1.37       | 3.81        | 1.45     |
| 2597   | 3           | -10         | -10        | 14.72        | 2.36    | -15.83  | 11.49   | -2.27      | -1.34      | 0.34       | 3.51        | 1.75     |
| 2592   | 3           | -10         | -5         | 14.74        | 2.36    | -15.39  | 11.49   | -1.67      | 0.28       | -0.17      | 3.24        | 2.02     |
| 2587   | 3           | -10         | 0          | 14.74        | 2.54    | -12.89  | 11.49   | -1.64      | -0.86      | -2.52      | 3.13        | 2.13     |
| 2605   | 3           | -10         | 5          | 14.72        | 3.67    | -8.67   | 11.49   | -2.13      | 0.52       | -5.90      | 2.86        | 2.40     |
| 2609   | 3           | -10         | 10         | 14.72        | 6.87    | -0.83   | 11.49   | -4.23      | 4.67       | -11.29     | 2.39        | 2.87     |
| 2613 * | 3           | -10         | 15         | 14.75        | 16.22   | 17.78   | 11.49   | -11.16     | 15.64      | -15.06     | 1.28        | 3.98     |
| 2503   | 3           | 0           | -15        | 14.72        | 4.10    | -17.53  | 11.49   | -3.03      | -0.62      | 1.64       | 3.12        | 2.20     |
| 2499   | 3           | 0           | -10        | 14.72        | 3.04    | -15.43  | 11.49   | -3.00      | -1.64      | 0.54       | 3.18        | 2.14     |
| 2495   | 3           | 0           | -5         | 14.72        | 2.45    | -14.18  | 11.49   | -2.58      | -2.12      | -0.11      | 3.21        | 2.11     |
| 2479   | 3           | 0           | 0          | 14.71        | 2.28    | -12.93  | 11.49   | -2.07      | -2.24      | -1.21      | 3.23        | 2.09     |
| 2483   | 3           | 0           | 5          | 14.71        | 2.87    | -11.02  | 11.49   | -1.74      | -1.77      | -3.05      | 3.23        | 2.09     |
| 2487   | 3           | 0           | 10         | 14.74        | 4.14    | -7.78   | 11.49   | -1.98      | 0.03       | -6.16      | 3.12        | 2.20     |
| 2491   | 3           | 0           | 15         | 14.72        | 7.04    | -1.97   | 11.49   | -3.63      | 3.86       | -11.14     | 2.86        | 2.46     |

\* Indicates model was close to heave stop

TABLE A1.123.2 - STABILITY DATA IN WIND AXES WITH AIR TARES

10 deg Deadrise, L/R = 0.234, Cv = 3

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 2537 | 3           | 10          | -15        | 14.71        | 8.40    | -27.50  | 11.49   | -1.15      | -2.86      | -2.75      | 2.21        | 3.05     |
| 2521 | 3           | 10          | -10        | 14.72        | 4.13    | -17.11  | 11.49   | -3.07      | -4.14      | -0.02      | 2.84        | 2.42     |
| 2517 | 3           | 10          | -5         | 14.74        | 2.99    | -13.87  | 11.49   | -3.07      | -4.54      | 0.10       | 3.15        | 2.11     |
| 2509 | 3           | 10          | 0          | 14.72        | 2.46    | -11.91  | 11.49   | -2.52      | -4.30      | -1.16      | 3.36        | 1.90     |
| 2513 | 3           | 10          | 5          | 14.72        | 2.33    | -11.39  | 11.49   | -1.49      | -5.84      | -1.73      | 3.64        | 1.62     |
| 2542 | 3           | 10          | 10         | 14.72        | 2.27    | -10.86  | 11.49   | 0.01       | -9.42      | -2.76      | 3.90        | 1.36     |
| 2547 | 3           | 10          | 15         | 14.72        | 2.31    | -10.78  | 11.49   | 1.55       | -12.25     | -3.64      | 4.17        | 1.09     |
| 2580 | 3           | 20          | -15        | 14.73        | 11.78   | -38.59  | 11.49   | 0.47       | -6.80      | -12.95     | 1.83        | 3.24     |
| 2576 | 3           | 20          | -10        | 14.72        | 4.66    | -19.42  | 11.49   | -2.52      | -5.63      | -2.33      | 2.73        | 2.34     |
| 2572 | 3           | 20          | -5         | 14.73        | 3.17    | -14.21  | 11.49   | -3.25      | -5.56      | -0.69      | 3.15        | 1.92     |
| 2568 | 3           | 20          | 0          | 14.75        | 2.67    | -11.27  | 11.49   | -2.94      | -6.38      | -1.62      | 3.47        | 1.60     |
| 2563 | 3           | 20          | 5          | 14.73        | 2.21    | -9.83   | 11.49   | -2.11      | -8.00      | -3.14      | 3.87        | 1.20     |
| 2564 | 3           | 20          | 5          | 14.74        | 2.18    | -9.80   | 11.49   | -2.12      | -8.01      | -3.16      | 3.87        | 1.20     |
| 2559 | 3           | 20          | 10         | 14.72        | 2.21    | -9.87   | 11.49   | -1.00      | -11.00     | -4.00      | 4.28        | 0.79     |
| 2554 | 3           | 20          | 15         | 14.72        | 2.19    | -10.40  | 11.49   | 0.32       | -13.18     | -3.99      | 4.61        | 0.46     |
| 3311 | 6           | -10         | -15        | 14.70        | 2.17    | -15.92  | 11.49   | -5.80      | -13.72     | 2.86       | 5.14        | 1.28     |
| 3307 | 6           | -10         | -10        | 14.70        | 2.08    | -15.67  | 11.49   | -4.05      | -11.86     | 2.21       | 4.89        | 1.53     |
| 3303 | 6           | -10         | -5         | 14.70        | 2.02    | -15.16  | 11.49   | -2.45      | -9.62      | 1.46       | 4.60        | 1.82     |
| 3286 | 6           | -10         | 0          | 14.71        | 2.32    | -13.41  | 11.49   | -1.65      | -8.74      | -1.29      | 4.27        | 2.15     |
| 3291 | 6           | -10         | 5          | 14.69        | 3.11    | -10.07  | 11.49   | -1.23      | -7.79      | -5.18      | 4.07        | 2.35     |
| 3295 | 6           | -10         | 10         | 14.69        | 5.01    | -3.84   | 11.49   | -1.84      | -5.62      | -11.87     | 3.69        | 2.73     |
| 3299 | 6           | -10         | 15         | 14.69        | 9.99    | 8.38    | 11.49   | -4.68      | -1.00      | -21.68     | 2.98        | 3.44     |
| 2660 | 6           | 0           | -15        | 14.75        | 2.05    | -14.59  | 11.49   | -5.65      | -10.81     | 1.13       | 4.68        | 1.80     |
| 2656 | 6           | 0           | -10        | 14.73        | 1.60    | -14.05  | 11.49   | -4.41      | -11.34     | 0.38       | 4.77        | 1.71     |
| 2652 | 6           | 0           | -5         | 14.73        | 1.60    | -13.67  | 11.49   | -3.09      | -11.84     | -0.03      | 4.78        | 1.70     |
| 2617 | 6           | 0           | 0          | 14.72        | 1.82    | -13.33  | 11.49   | -1.74      | -11.78     | -0.43      | 4.68        | 1.80     |
| 2618 | 6           | 0           | 0          | 14.74        | 1.68    | -13.34  | 11.49   | -1.75      | -11.91     | -0.41      | 4.76        | 1.72     |
| 2622 | 6           | 0           | 5          | 14.73        | 1.85    | -12.75  | 11.49   | -0.45      | -12.03     | -1.32      | 4.77        | 1.71     |
| 2644 | 6           | 0           | 10         | 14.72        | 2.29    | -11.68  | 11.49   | 0.72       | -11.81     | -2.86      | 4.71        | 1.77     |
| 2648 | 6           | 0           | 15         | 14.73        | 3.15    | -10.19  | 11.49   | 1.56       | -10.94     | -5.18      | 4.63        | 1.85     |
| 2690 | 6           | 10          | -15        | 14.73        | 3.37    | -16.37  | 11.49   | -4.53      | -8.02      | 3.20       | 4.10        | 2.32     |
| 2685 | 6           | 10          | -10        | 14.74        | 2.29    | -13.19  | 11.49   | -4.48      | -9.34      | -0.23      | 4.36        | 2.06     |
| 2681 | 6           | 10          | -5         | 14.71        | 2.01    | -11.48  | 11.49   | -3.74      | -10.88     | -2.28      | 4.55        | 1.87     |
| 2665 | 6           | 10          | 0          | 14.72        | 1.77    | -11.79  | 11.49   | -2.41      | -13.23     | -2.28      | 4.90        | 1.52     |
| 2669 | 6           | 10          | 5          | 14.74        | 1.98    | -11.49  | 11.49   | -0.85      | -15.45     | -3.04      | 5.15        | 1.27     |
| 2673 | 6           | 10          | 10         | 14.76        | 2.10    | -11.53  | 11.49   | 0.61       | -16.13     | -3.24      | 5.34        | 1.08     |
| 2677 | 6           | 10          | 15         | 14.72        | 2.28    | -11.32  | 11.49   | 2.30       | -16.87     | -3.60      | 5.39        | 1.03     |
| 2703 | 6           | 20          | -15        | 14.74        | 6.10    | -23.58  | 11.49   | -2.83      | -8.31      | 5.40       | 3.18        | 3.05     |
| 2698 | 6           | 20          | -10        | 14.72        | 3.26    | -15.15  | 11.49   | -4.12      | -8.75      | 0.95       | 3.91        | 2.32     |
| 2707 | 6           | 20          | -5         | 14.74        | 2.41    | -11.13  | 11.49   | -3.96      | -9.80      | -2.39      | 4.12        | 2.11     |
| 2711 | 6           | 20          | 0          | 14.74        | 2.17    | -8.82   | 11.49   | -3.38      | -12.01     | -5.39      | 4.56        | 1.67     |
| 2715 | 6           | 20          | 5          | 14.72        | 2.19    | -9.89   | 11.49   | -1.84      | -14.95     | -4.71      | 5.07        | 1.16     |
| 2719 | 6           | 20          | 10         | 14.74        | 2.20    | -10.45  | 11.49   | -0.45      | -15.91     | -4.43      | 5.40        | 0.83     |
| 2740 | 6           | 20          | 15         | 14.74        | 2.36    | -10.74  | 11.49   | 1.09       | -16.72     | -4.28      | 5.66        | 0.57     |

\* Indicates model was close to heave stop

TABLE A1.124.1 - STABILITY DATA IN WIND AXES WITH AIR TARES

10 deg Deadrise, L/R = 0.234, Cv = 4

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|--------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 2352   | 0           | 0           | -15        | 19.19        | 23.68   | -56.01  | 11.49   | 4.42       | 9.71       | -35.29     | 1.55        | 2.60     |
| 2376   | 0           | 10          | 0          | 19.15        | 6.41    | -22.93  | 11.49   | -3.69      | 4.13       | -1.14      | 2.53        | 1.56     |
| 2474   | 0           | -10         | -15        | 19.67        | 6.90    | -30.69  | 11.49   | -0.35      | 20.56      | -6.53      | 3.09        | 1.00     |
| 2468   | 0           | -10         | -10        | 19.68        | 9.25    | -30.23  | 11.49   | -0.22      | 26.89      | -10.02     | 2.49        | 1.60     |
| 2469   | 0           | -10         | -10        | 19.66        | 9.38    | -30.27  | 11.49   | -0.21      | 27.06      | -10.06     | 2.47        | 1.62     |
| 2461   | 0           | -10         | -5         | 19.68        | 7.66    | -28.27  | 11.49   | -2.40      | 22.02      | -7.24      | 2.33        | 1.76     |
| 2430   | 0           | -10         | 0          | 19.68        | 5.90    | -25.61  | 11.49   | -3.74      | 13.43      | -5.19      | 2.55        | 1.54     |
| 2434   | 0           | -10         | 5          | 19.69        | 11.64   | -14.18  | 11.49   | -6.24      | 16.67      | -11.41     | 1.72        | 2.37     |
| 2347   | 0           | 0           | -10        | 19.61        | 12.28   | -35.62  | 11.49   | -0.09      | 13.91      | -12.42     | 2.14        | 2.01     |
| 2343   | 0           | 0           | -5         | 19.59        | 8.29    | -27.90  | 11.49   | -2.91      | 12.77      | -4.26      | 2.41        | 1.74     |
| 2322   | 0           | 0           | 0          | 19.44        | 5.86    | -24.32  | 11.49   | -3.61      | 10.90      | -2.33      | 2.52        | 1.63     |
| 2323   | 0           | 0           | 0          | 19.76        | 5.87    | -25.01  | 11.49   | -3.64      | 11.30      | -2.34      | 2.52        | 1.63     |
| 2324   | 0           | 0           | 0          | 19.63        | 5.65    | -24.67  | 11.49   | -3.71      | 11.00      | -2.26      | 2.57        | 1.58     |
| 2326   | 0           | 0           | 0          | 19.61        | 5.84    | -24.64  | 11.49   | -3.71      | 11.05      | -2.36      | 2.53        | 1.62     |
| 2327   | 0           | 0           | 0          | 19.51        | 6.03    | -24.49  | 11.49   | -3.65      | 11.02      | -2.34      | 2.52        | 1.63     |
| 2328   | 0           | 0           | 0          | 19.58        | 5.77    | -24.77  | 11.49   | -3.73      | 11.04      | -2.27      | 2.59        | 1.56     |
| 2333   | 0           | 0           | 5          | 19.57        | 8.22    | -19.48  | 11.49   | -5.47      | 15.46      | -5.96      | 2.28        | 1.87     |
| 2339 * | 0           | 0           | 10         | 19.60        | 16.01   | -1.51   | 11.49   | -9.65      | 20.17      | -11.30     | 1.44        | 2.71     |
| 2394   | 0           | 10          | -5         | 19.57        | 9.17    | -30.35  | 11.49   | -2.97      | 2.03       | -8.72      | 2.20        | 1.89     |
| 2377   | 0           | 10          | 0          | 19.59        | 6.55    | -24.02  | 11.49   | -3.94      | 4.53       | -1.11      | 2.52        | 1.57     |
| 2381   | 0           | 10          | 5          | 19.57        | 6.92    | -21.13  | 11.49   | -4.65      | 11.59      | -0.49      | 2.53        | 1.56     |
| 2385   | 0           | 10          | 10         | 19.59        | 6.20    | -19.72  | 11.49   | -4.82      | 12.43      | -0.12      | 2.95        | 1.14     |
| 2389   | 0           | 10          | 15         | 19.58        | 4.89    | -19.54  | 11.49   | -3.49      | 5.34       | -0.61      | 3.41        | 0.68     |
| 2418   | 0           | 20          | -5         | 19.69        | 9.64    | -34.40  | 11.49   | -2.76      | -4.96      | -17.56     | 2.24        | 1.66     |
| 2402   | 0           | 20          | 0          | 19.57        | 6.79    | -24.11  | 11.49   | -4.08      | 0.12       | -4.27      | 2.57        | 1.33     |
| 2406   | 0           | 20          | 5          | 19.57        | 6.06    | -18.84  | 11.49   | -4.50      | 1.30       | -0.38      | 2.91        | 0.99     |
| 2410   | 0           | 20          | 10         | 19.68        | 4.55    | -19.76  | 11.49   | -4.51      | -0.35      | -1.44      | 3.62        | 0.28     |
| 2414   | 0           | 20          | 15         | 19.70        | 2.92    | -21.28  | 11.49   | -3.85      | -5.34      | -1.78      | 4.17        | -0.27    |
| 2602   | 3           | -10         | -15        | 19.63        | 2.23    | -27.58  | 11.49   | -6.93      | -10.99     | 3.02       | 4.11        | 1.15     |
| 2598   | 3           | -10         | -10        | 19.64        | 2.38    | -27.05  | 11.49   | -4.64      | -5.09      | 1.39       | 3.82        | 1.44     |
| 2593   | 3           | -10         | -5         | 19.64        | 2.74    | -26.49  | 11.49   | -3.19      | 1.62       | -0.17      | 3.44        | 1.82     |
| 2588   | 3           | -10         | 0          | 19.67        | 3.11    | -23.32  | 11.49   | -3.13      | 1.82       | -3.55      | 3.26        | 2.00     |
| 2606   | 3           | -10         | 5          | 19.66        | 5.26    | -15.76  | 11.49   | -4.26      | 4.66       | -10.13     | 2.96        | 2.30     |
| 2610   | 3           | -10         | 10         | 19.64        | 10.46   | -2.66   | 11.49   | -8.12      | 11.91      | -19.19     | 2.43        | 2.83     |
| 2504   | 3           | 0           | -15        | 19.61        | 5.33    | -28.90  | 11.49   | -5.14      | 0.14       | 1.91       | 3.30        | 2.02     |
| 2500   | 3           | 0           | -10        | 19.60        | 3.82    | -25.60  | 11.49   | -5.01      | -0.81      | -0.33      | 3.37        | 1.95     |
| 2496   | 3           | 0           | -5         | 19.58        | 3.02    | -24.33  | 11.49   | -4.31      | -0.53      | -0.66      | 3.35        | 1.97     |
| 2480   | 3           | 0           | 0          | 19.65        | 2.73    | -23.40  | 11.49   | -3.57      | -1.79      | -1.33      | 3.38        | 1.94     |
| 2484   | 3           | 0           | 5          | 19.64        | 3.44    | -20.71  | 11.49   | -3.01      | -2.43      | -4.07      | 3.47        | 1.85     |
| 2488   | 3           | 0           | 10         | 19.65        | 5.04    | -16.82  | 11.49   | -3.02      | -0.69      | -8.12      | 3.40        | 1.92     |
| 2492   | 3           | 0           | 15         | 19.63        | 8.25    | -10.08  | 11.49   | -4.59      | 3.47       | -15.02     | 3.25        | 2.07     |

\* Indicates model was close to heave stop

TABLE A1.124.2 - STABILITY DATA IN WIND AXES WITH AIR TARES

10 deg Deadrise, L/R = 0.234, Cv = 4

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 2538 | 3           | 10          | -15        | 19.64        | 13.73   | -49.04  | 11.49   | -0.73      | 0.81       | -5.76      | 2.19        | 3.07     |
| 2522 | 3           | 10          | -10        | 19.62        | 6.36    | -29.36  | 11.49   | -4.29      | -1.38      | -2.34      | 2.81        | 2.45     |
| 2518 | 3           | 10          | -5         | 19.64        | 4.28    | -22.86  | 11.49   | -4.89      | -2.77      | -1.74      | 3.25        | 2.01     |
| 2510 | 3           | 10          | 0          | 19.65        | 2.62    | -21.79  | 11.49   | -4.06      | -6.59      | -1.67      | 3.66        | 1.60     |
| 2514 | 3           | 10          | 5          | 19.60        | 2.08    | -21.03  | 11.49   | -2.43      | -12.74     | -3.25      | 4.07        | 1.19     |
| 2543 | 3           | 10          | 10         | 19.67        | 2.05    | -21.01  | 11.49   | -0.88      | -15.78     | -3.97      | 4.23        | 1.03     |
| 2544 | 3           | 10          | 10         | 19.64        | 1.96    | -21.07  | 11.49   | -0.98      | -15.44     | -3.78      | 4.25        | 1.01     |
| 2548 | 3           | 10          | 15         | 19.66        | 2.20    | -21.04  | 11.49   | 0.64       | -16.76     | -4.04      | 4.35        | 0.91     |
| 2549 | 3           | 10          | 15         | 19.68        | 2.19    | -21.13  | 11.49   | 0.63       | -16.81     | -4.10      | 4.35        | 0.91     |
| 2577 | 3           | 20          | -10        | 19.63        | 7.19    | -34.42  | 11.49   | -3.18      | -4.56      | -5.72      | 2.73        | 2.34     |
| 2573 | 3           | 20          | -5         | 19.61        | 4.51    | -23.77  | 11.49   | -5.07      | -4.69      | -2.80      | 3.23        | 1.84     |
| 2569 | 3           | 20          | 0          | 19.66        | 3.48    | -19.38  | 11.49   | -4.94      | -7.78      | -3.86      | 3.67        | 1.40     |
| 2565 | 3           | 20          | 5          | 19.64        | 1.92    | -20.41  | 11.49   | -3.80      | -12.28     | -3.80      | 4.35        | 0.72     |
| 2560 | 3           | 20          | 10         | 19.65        | 1.81    | -20.76  | 11.49   | -2.33      | -16.29     | -4.00      | 4.67        | 0.40     |
| 2555 | 3           | 20          | 15         | 19.66        | 1.64    | -21.46  | 11.49   | -0.59      | -17.91     | -3.33      | 4.89        | 0.18     |
| 3312 | 6           | -10         | -15        | 19.58        | 2.23    | -26.92  | 11.49   | -9.05      | -20.34     | 3.54       | 5.48        | 0.94     |
| 3308 | 6           | -10         | -10        | 19.58        | 1.89    | -26.41  | 11.49   | -6.72      | -18.40     | 2.88       | 5.37        | 1.05     |
| 3304 | 6           | -10         | -5         | 19.57        | 1.99    | -25.84  | 11.49   | -4.45      | -15.52     | 2.17       | 5.12        | 1.30     |
| 3287 | 6           | -10         | 0          | 19.62        | 2.68    | -24.23  | 11.49   | -2.99      | -12.70     | -0.76      | 4.60        | 1.82     |
| 3292 | 6           | -10         | 5          | 19.59        | 3.59    | -19.87  | 11.49   | -2.44      | -10.44     | -6.27      | 4.47        | 1.95     |
| 3296 | 6           | -10         | 10         | 19.59        | 6.19    | -11.33  | 11.49   | -3.56      | -6.64      | -16.54     | 4.12        | 2.30     |
| 2661 | 6           | 0           | -15        | 19.69        | 1.52    | -25.45  | 11.49   | -9.24      | -17.24     | 1.22       | 5.27        | 1.21     |
| 2657 | 6           | 0           | -10        | 19.70        | 1.45    | -24.82  | 11.49   | -7.38      | -18.49     | 0.59       | 5.20        | 1.28     |
| 2653 | 6           | 0           | -5         | 19.69        | 1.40    | -24.32  | 11.49   | -5.41      | -18.97     | -0.03      | 5.28        | 1.20     |
| 2619 | 6           | 0           | 0          | 19.61        | 1.54    | -23.63  | 11.49   | -3.29      | -19.27     | -0.75      | 5.26        | 1.22     |
| 2623 | 6           | 0           | 5          | 19.65        | 1.63    | -23.17  | 11.49   | -1.18      | -19.29     | -1.40      | 5.23        | 1.25     |
| 2645 | 6           | 0           | 10         | 19.68        | 1.98    | -22.38  | 11.49   | 0.83       | -18.83     | -2.64      | 5.14        | 1.34     |
| 2649 | 6           | 0           | 15         | 19.69        | 2.60    | -21.61  | 11.49   | 2.60       | -17.71     | -4.03      | 5.13        | 1.35     |
| 2691 | 6           | 10          | -15        | 19.64        | 3.80    | -27.56  | 11.49   | -7.24      | -10.69     | 4.33       | 4.43        | 1.99     |
| 2743 | 6           | 10          | -15        | 19.67        | 3.76    | -27.42  | 11.49   | -7.26      | -10.60     | 4.19       | 4.40        | 2.02     |
| 2686 | 6           | 10          | -10        | 19.60        | 2.28    | -23.06  | 11.49   | -7.24      | -13.49     | -1.10      | 4.82        | 1.60     |
| 2687 | 6           | 10          | -10        | 19.61        | 2.33    | -23.02  | 11.49   | -7.23      | -13.51     | -1.11      | 4.79        | 1.63     |
| 2682 | 6           | 10          | -5         | 19.63        | 1.66    | -22.18  | 11.49   | -6.05      | -16.98     | -2.62      | 5.18        | 1.24     |
| 2666 | 6           | 10          | 0          | 19.68        | 1.29    | -22.38  | 11.49   | -4.41      | -19.23     | -2.69      | 5.39        | 1.03     |
| 2670 | 6           | 10          | 5          | 19.69        | 1.58    | -22.21  | 11.49   | -2.58      | -20.14     | -2.94      | 5.50        | 0.92     |
| 2674 | 6           | 10          | 10         | 19.71        | 1.93    | -21.97  | 11.49   | -0.58      | -21.28     | -3.38      | 5.54        | 0.88     |
| 2678 | 6           | 10          | 15         | 19.61        | 1.92    | -21.76  | 11.49   | 1.30       | -20.92     | -3.39      | 5.60        | 0.82     |
| 2704 | 6           | 20          | -15        | 19.66        | 9.37    | -41.82  | 11.49   | -3.29      | -8.50      | 9.49       | 3.22        | 3.01     |
| 2699 | 6           | 20          | -10        | 19.66        | 3.89    | -25.98  | 11.49   | -6.26      | -10.57     | 1.37       | 4.23        | 2.00     |
| 2700 | 6           | 20          | -10        | 19.61        | 3.96    | -25.73  | 11.49   | -6.30      | -10.59     | 1.17       | 4.08        | 2.15     |
| 2708 | 6           | 20          | -5         | 19.65        | 2.42    | -19.93  | 11.49   | -6.48      | -13.17     | -4.79      | 4.58        | 1.65     |
| 2712 | 6           | 20          | 0          | 19.62        | 2.15    | -18.24  | 11.49   | -5.74      | -16.02     | -7.35      | 5.03        | 1.20     |
| 2716 | 6           | 20          | 5          | 19.65        | 1.87    | -20.54  | 11.49   | -3.65      | -19.89     | -4.72      | 5.49        | 0.74     |
| 2737 | 6           | 20          | 5          | 19.64        | 1.63    | -20.83  | 11.49   | -3.68      | -19.08     | -4.49      | 5.57        | 0.66     |
| 2736 | 6           | 20          | 10         | 19.66        | 1.79    | -21.11  | 11.49   | -1.88      | -20.83     | -4.17      | 5.77        | 0.46     |
| 2741 | 6           | 20          | 15         | 19.67        | 1.89    | -21.62  | 11.49   | 0.13       | -20.70     | -3.61      | 5.94        | 0.29     |

\* Indicates model was close to heave stop

TABLE A1.200.1 - STABILITY DATA IN WIND AXES WITH AIR TARES

20 deg Deadrise, L/R = 0.000, Cv = 0

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 1708 | -2          | -10         | 0          | 0            | 0.06    | -0.04   | 11.49   | 0.38       | 0.02       | 0.01       | 2.24        | 1.06     |
| 1712 | -2          | -10         | 5          | 0            | 0.03    | -0.00   | 11.49   | 0.45       | 0.04       | 0.02       | 2.21        | 1.09     |
| 1715 | -2          | -10         | 10         | 0            | 0.01    | -0.04   | 11.49   | 0.41       | 0.10       | 0.02       | 2.20        | 1.10     |
| 1717 | -2          | -10         | 15         | 0            | 0.01    | -0.03   | 11.49   | 0.38       | 0.11       | 0.00       | 2.20        | 1.10     |
| 1644 | -2          | 0           | 0          | 0            | 0.03    | -0.04   | 11.49   | -0.02      | 0.23       | 0.02       | 2.34        | 1.02     |
| 1649 | -2          | 0           | 5          | 0            | 0.03    | -0.02   | 11.49   | -0.03      | 0.19       | 0.01       | 2.27        | 1.09     |
| 1652 | -2          | 0           | 10         | 0            | 0.03    | -0.04   | 11.49   | -0.04      | 0.16       | 0.01       | 2.26        | 1.10     |
| 1655 | -2          | 0           | 15         | 0            | 0.04    | -0.05   | 11.49   | -0.04      | 0.10       | 0.00       | 2.26        | 1.10     |
| 1659 | -2          | 10          | 0          | 0            | 0.04    | -0.05   | 11.49   | -0.45      | -0.13      | 0.03       | 2.37        | 0.93     |
| 1663 | -2          | 10          | 5          | 0            | 0.03    | -0.02   | 11.49   | -0.43      | -0.19      | 0.02       | 2.36        | 0.94     |
| 1682 | -2          | 10          | 10         | 0            | 0.02    | -0.10   | 11.49   | -0.46      | -0.21      | 0.01       | 2.33        | 0.97     |
| 1687 | -2          | 10          | 15         | 0            | 0.03    | -0.03   | 11.49   | -0.36      | -0.33      | 0.00       | 2.31        | 0.99     |
| 1691 | -2          | 20          | 0          | 0            | 0.04    | -0.04   | 11.49   | -0.59      | -0.48      | 0.02       | 2.36        | 0.75     |
| 1695 | -2          | 20          | 5          | 0            | 0.05    | -0.05   | 11.49   | -0.54      | -0.47      | 0.02       | 2.37        | 0.74     |
| 1700 | -2          | 20          | 10         | 0            | 0.02    | -0.04   | 11.49   | -0.49      | -0.54      | 0.01       | 2.35        | 0.76     |
| 1702 | -2          | 20          | 15         | 0            | 0.03    | -0.01   | 11.49   | -0.35      | -0.57      | 0.02       | 2.35        | 0.76     |
| 1626 | 0           | -10         | 0          | 0            | 0.00    | -0.01   | 11.49   | 0.41       | -4.06      | 0.03       | 2.31        | 1.78     |
| 1630 | 0           | -10         | 5          | 0            | -0.01   | 0.02    | 11.49   | 0.79       | -4.00      | 0.00       | 2.32        | 1.77     |
| 1634 | 0           | -10         | 10         | 0            | 0.00    | 0.01    | 11.49   | 1.13       | -3.90      | 0.02       | 2.33        | 1.76     |
| 1638 | 0           | -10         | 15         | 0            | 0.01    | 0.02    | 11.49   | 1.49       | -3.88      | 0.01       | 2.31        | 1.78     |
| 1558 | 0           | 0           | 0          | 0            | 0.00    | -0.02   | 11.49   | -0.02      | -4.16      | 0.04       | 2.06        | 2.09     |
| 1563 | 0           | 0           | 5          | 0            | 0.00    | 0.00    | 11.49   | 0.38       | -4.17      | 0.02       | 2.29        | 1.86     |
| 1567 | 0           | 0           | 10         | 0            | 0.01    | -0.00   | 11.49   | 0.71       | -4.05      | 0.02       | 2.37        | 1.78     |
| 1571 | 0           | 0           | 15         | 0            | 0.01    | -0.00   | 11.49   | 1.08       | -4.05      | 0.03       | 2.38        | 1.77     |
| 1578 | 0           | 10          | 0          | 0            | 0.02    | -0.02   | 11.49   | -0.48      | -4.27      | 0.03       | 2.30        | 1.79     |
| 1581 | 0           | 10          | 5          | 0            | 0.01    | -0.00   | 11.49   | -0.07      | -4.31      | 0.04       | 2.31        | 1.78     |
| 1587 | 0           | 10          | 10         | 0            | 0.00    | 0.01    | 11.49   | 0.28       | -4.22      | 0.02       | 2.33        | 1.76     |
| 1590 | 0           | 10          | 15         | 0            | -0.00   | 0.02    | 11.49   | 0.65       | -4.18      | 0.03       | 2.35        | 1.74     |
| 1606 | 0           | 20          | 0          | 0            | 0.00    | -0.03   | 11.49   | -0.59      | -4.21      | 0.03       | 2.37        | 1.53     |
| 1610 | 0           | 20          | 5          | 0            | 0.01    | -0.00   | 11.49   | -0.23      | -4.29      | 0.01       | 2.37        | 1.53     |
| 1614 | 0           | 20          | 10         | 0            | 0.00    | 0.00    | 11.49   | 0.16       | -4.29      | 0.02       | 2.39        | 1.51     |
| 1618 | 0           | 20          | 15         | 0            | 0.00    | 0.00    | 11.49   | 0.54       | -4.28      | 0.03       | 2.42        | 1.48     |
| 1396 | 3           | -10         | 0          | 0            | 0.01    | 0.03    | 11.49   | 0.36       | -9.12      | 0.02       | 2.62        | 2.64     |
| 1392 | 3           | -10         | 5          | 0            | 0.00    | 0.04    | 11.49   | 1.15       | -9.03      | 0.03       | 2.62        | 2.64     |
| 1389 | 3           | -10         | 10         | 0            | 0.01    | 0.03    | 11.49   | 1.93       | -8.96      | 0.03       | 2.61        | 2.65     |
| 1383 | 3           | -10         | 15         | 0            | -0.02   | 0.03    | 11.49   | 2.67       | -8.69      | 0.05       | 2.62        | 2.64     |
| 1401 | 3           | 0           | 0          | 0            | 0.01    | 0.04    | 11.49   | 0.00       | -9.49      | 0.04       | 2.51        | 2.81     |
| 1404 | 3           | 0           | 0          | 0            | 0.01    | 0.05    | 11.49   | 0.01       | -9.48      | 0.04       | 2.53        | 2.79     |
| 1408 | 3           | 0           | 5          | 0            | 0.01    | 0.03    | 11.49   | 0.80       | -9.38      | 0.05       | 2.52        | 2.80     |
| 1412 | 3           | 0           | 10         | 0            | 0.01    | 0.04    | 11.49   | 1.63       | -9.24      | 0.03       | 2.52        | 2.80     |
| 1416 | 3           | 0           | 15         | 0            | 0.01    | 0.04    | 11.49   | 2.43       | -9.08      | 0.03       | 2.53        | 2.79     |

\* Indicates model was close to heave stop

TABLE A1.200.2 - STABILITY DATA IN WIND AXES WITH AIR TARES

20 deg Deadrise, L/R = 0.000, Cv = 0

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 1435 | 3           | 10          | 0          | 0            | 0.00    | -0.01   | 11.49   | -0.39      | -9.10      | 0.05       | 2.55        | 2.71     |
| 1441 | 3           | 10          | 5          | 0            | -0.01   | 0.02    | 11.49   | 0.43       | -9.20      | 0.04       | 2.55        | 2.71     |
| 1444 | 3           | 10          | 10         | 0            | 0.01    | 0.03    | 11.49   | 1.21       | -9.07      | 0.05       | 2.56        | 2.70     |
| 1448 | 3           | 10          | 15         | 0            | -0.00   | 0.03    | 11.49   | 2.00       | -8.92      | 0.04       | 2.56        | 2.70     |
| 1456 | 3           | 20          | 0          | 0            | -0.05   | 0.04    | 11.49   | -0.54      | -8.91      | 0.08       | 2.62        | 2.45     |
| 1460 | 3           | 20          | 5          | 0            | 0.01    | -0.00   | 11.49   | 0.21       | -8.90      | 0.04       | 2.61        | 2.46     |
| 1464 | 3           | 20          | 10         | 0            | 0.00    | 0.02    | 11.49   | 0.98       | -8.86      | 0.03       | 2.61        | 2.46     |
| 1468 | 3           | 20          | 15         | 0            | 0.01    | 0.02    | 11.49   | 1.75       | -8.73      | 0.03       | 2.61        | 2.46     |
| 1540 | 6           | -10         | 0          | 0            | -0.01   | 0.06    | 11.49   | 0.27       | -12.18     | 0.05       | 2.99        | 3.43     |
| 1544 | 6           | -10         | 5          | 0            | 0.00    | 0.05    | 11.49   | 1.30       | -11.90     | 0.03       | 3.00        | 3.42     |
| 1548 | 6           | -10         | 10         | 0            | 0.00    | 0.07    | 11.49   | 2.35       | -11.82     | 0.05       | 2.99        | 3.43     |
| 1552 | 6           | -10         | 15         | 0            | -0.00   | 0.06    | 11.49   | 3.38       | -11.63     | 0.05       | 2.96        | 3.46     |
| 1475 | 6           | 0           | 0          | 0            | 0.00    | 0.04    | 11.49   | -0.01      | -12.33     | 0.06       | 2.98        | 3.50     |
| 1479 | 6           | 0           | 5          | 0            | -0.01   | 0.09    | 11.49   | 1.10       | -12.25     | 0.05       | 2.99        | 3.49     |
| 1483 | 6           | 0           | 10         | 0            | 0.00    | 0.06    | 11.49   | 2.12       | -12.01     | 0.04       | 3.00        | 3.48     |
| 1487 | 6           | 0           | 15         | 0            | 0.00    | 0.09    | 11.49   | 3.22       | -12.02     | 0.04       | 2.96        | 3.52     |
| 1493 | 6           | 10          | 0          | 0            | 0.01    | 0.05    | 11.49   | -0.27      | -12.28     | 0.05       | 2.97        | 3.45     |
| 1497 | 6           | 10          | 5          | 0            | 0.01    | 0.08    | 11.49   | 0.82       | -12.20     | 0.05       | 2.97        | 3.45     |
| 1501 | 6           | 10          | 10         | 0            | 0.01    | 0.09    | 11.49   | 1.87       | -12.09     | 0.06       | 2.98        | 3.44     |
| 1505 | 6           | 10          | 15         | 0            | -0.00   | 0.07    | 11.49   | 2.89       | -11.80     | 0.05       | 2.98        | 3.44     |
| 1521 | 6           | 20          | 0          | 0            | -0.03   | 0.05    | 11.49   | -0.46      | -11.86     | 0.06       | 3.03        | 3.20     |
| 1526 | 6           | 20          | 5          | 0            | 0.00    | 0.05    | 11.49   | 0.56       | -11.96     | 0.04       | 3.02        | 3.21     |
| 1529 | 6           | 20          | 10         | 0            | 0.01    | 0.05    | 11.49   | 1.58       | -11.74     | 0.04       | 3.03        | 3.20     |
| 1533 | 6           | 20          | 15         | 0            | 0.00    | 0.04    | 11.49   | 2.59       | -11.56     | 0.04       | 3.03        | 3.20     |

\* Indicates model was close to heave stop



TABLE A1.201.1 - STABILITY DATA IN WIND AXES WITH AIR TARES

20 deg Deadrise, L/R = 0.000, Cv = 1.5

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|--------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 1709   | -2          | -10         | 0          | 7.36         | 1.48    | 0.09    | 11.49   | 0.25       | 3.58       | 0.21       | 1.88        | 1.42     |
| 1713   | -2          | -10         | 5          | 7.36         | 1.70    | 1.09    | 11.49   | -0.11      | 3.82       | 2.04       | 1.72        | 1.58     |
| 1716 * | -2          | -10         | 10         | 7.36         | 2.46    | 3.06    | 11.49   | -0.99      | 4.56       | 5.15       | 1.45        | 1.85     |
| 1718 * | -2          | -10         | 15         | 7.37         | 3.84    | 6.27    | 11.49   | -2.26      | 5.72       | 8.93       | 1.21        | 2.09     |
| 1645   | -2          | 0           | 0          | 7.37         | 1.51    | -0.02   | 11.49   | 0.07       | 3.94       | 0.05       | 1.96        | 1.40     |
| 1648   | -2          | 0           | 5          | 7.37         | 1.69    | 0.87    | 11.49   | -0.44      | 4.10       | 1.63       | 1.81        | 1.55     |
| 1653   | -2          | 0           | 10         | 7.36         | 2.57    | 2.82    | 11.49   | -1.20      | 4.45       | 4.39       | 1.56        | 1.80     |
| 1656 * | -2          | 0           | 15         | 7.37         | 4.42    | 6.48    | 11.49   | -2.34      | 5.64       | 9.05       | 1.16        | 2.20     |
| 1660   | -2          | 10          | 0          | 7.37         | 1.47    | -0.11   | 11.49   | -0.19      | 3.51       | -0.17      | 2.02        | 1.28     |
| 1664   | -2          | 10          | 5          | 7.37         | 1.57    | 0.64    | 11.49   | -0.70      | 3.83       | 1.25       | 1.97        | 1.33     |
| 1681   | -2          | 10          | 5          | 7.36         | 1.57    | 0.67    | 11.49   | -0.71      | 3.81       | 1.31       | 1.87        | 1.43     |
| 1683   | -2          | 10          | 10         | 7.36         | 2.25    | 2.14    | 11.49   | -1.34      | 4.52       | 3.54       | 1.72        | 1.58     |
| 1686 * | -2          | 10          | 15         | 7.37         | 3.98    | 5.39    | 11.49   | -2.36      | 5.56       | 7.78       | 1.33        | 1.97     |
| 1692   | -2          | 20          | 0          | 7.37         | 1.42    | -0.19   | 11.49   | -0.41      | 2.91       | -0.36      | 2.03        | 1.08     |
| 1696   | -2          | 20          | 5          | 7.36         | 1.50    | 0.61    | 11.49   | -0.74      | 3.26       | 1.22       | 2.00        | 1.11     |
| 1699   | -2          | 20          | 10         | 7.36         | 1.92    | 2.02    | 11.49   | -1.35      | 4.21       | 3.33       | 1.82        | 1.29     |
| 1703 * | -2          | 20          | 15         | 7.36         | 3.49    | 4.90    | 11.49   | -2.37      | 4.83       | 7.11       | 1.35        | 1.76     |
| 1627   | 0           | -10         | 0          | 7.37         | 1.25    | 0.09    | 11.49   | 0.42       | -0.14      | 0.21       | 2.10        | 1.99     |
| 1631   | 0           | -10         | 5          | 7.39         | 1.42    | 0.88    | 11.49   | 0.42       | 0.01       | 1.16       | 2.03        | 2.06     |
| 1635   | 0           | -10         | 10         | 7.39         | 2.09    | 2.46    | 11.49   | 0.11       | 0.68       | 2.74       | 1.81        | 2.28     |
| 1639 * | 0           | -10         | 15         | 7.36         | 3.75    | 5.85    | 11.49   | -0.72      | 2.21       | 5.67       | 1.36        | 2.73     |
| 1560   | 0           | 0           | 0          | 7.36         | 1.26    | 0.02    | 11.49   | 0.04       | -0.02      | 0.03       | 1.91        | 2.24     |
| 1564   | 0           | 0           | 5          | 7.37         | 1.42    | 0.67    | 11.49   | 0.07       | 0.03       | 0.93       | 2.08        | 2.07     |
| 1568   | 0           | 0           | 10         | 7.37         | 1.91    | 1.81    | 11.49   | -0.12      | 0.80       | 2.27       | 1.96        | 2.19     |
| 1572 * | 0           | 0           | 15         | 7.37         | 3.37    | 4.75    | 11.49   | -0.85      | 2.02       | 4.88       | 1.52        | 2.63     |
| 1577   | 0           | 10          | 0          | 7.37         | 1.25    | -0.09   | 11.49   | -0.40      | -0.27      | -0.19      | 2.08        | 2.01     |
| 1582   | 0           | 10          | 5          | 7.37         | 1.38    | 0.52    | 11.49   | -0.37      | -0.01      | 0.83       | 2.08        | 2.01     |
| 1586   | 0           | 10          | 10         | 7.37         | 1.84    | 1.61    | 11.49   | -0.47      | 0.76       | 2.10       | 1.99        | 2.10     |
| 1591   | 0           | 10          | 15         | 7.38         | 2.97    | 3.79    | 11.49   | -0.91      | 2.05       | 3.98       | 1.70        | 2.39     |
| 1607   | 0           | 20          | 0          | 7.36         | 1.22    | -0.22   | 11.49   | -0.48      | -0.53      | -0.38      | 2.16        | 1.74     |
| 1611   | 0           | 20          | 5          | 7.38         | 1.25    | 0.45    | 11.49   | -0.55      | -0.24      | 0.44       | 2.15        | 1.75     |
| 1615   | 0           | 20          | 10         | 7.37         | 1.64    | 1.59    | 11.49   | -0.67      | 0.47       | 1.55       | 2.07        | 1.83     |
| 1619   | 0           | 20          | 15         | 7.37         | 2.66    | 3.45    | 11.49   | -1.02      | 1.84       | 3.29       | 1.84        | 2.06     |
| 1397   | 3           | -10         | 0          | 7.36         | 1.33    | 0.18    | 11.49   | 0.50       | -5.41      | -0.01      | 2.61        | 2.65     |
| 1393   | 3           | -10         | 5          | 7.37         | 1.46    | 0.89    | 11.49   | 0.96       | -5.10      | -0.10      | 2.55        | 2.71     |
| 1390   | 3           | -10         | 10         | 7.37         | 1.97    | 2.15    | 11.49   | 1.15       | -4.29      | -0.24      | 2.40        | 2.86     |
| 1405   | 3           | 0           | 0          | 7.36         | 1.19    | 0.09    | 11.49   | 0.09       | -5.62      | 0.00       | 2.54        | 2.78     |
| 1409   | 3           | 0           | 5          | 7.37         | 1.42    | 0.73    | 11.49   | 0.61       | -5.43      | -0.05      | 2.50        | 2.82     |
| 1413   | 3           | 0           | 10         | 7.37         | 1.80    | 1.75    | 11.49   | 1.04       | -4.74      | -0.18      | 2.38        | 2.94     |
| 1417   | 3           | 0           | 15         | 7.37         | 2.89    | 4.03    | 11.49   | 1.07       | -3.29      | -0.46      | 2.13        | 3.19     |

\* Indicates model was close to heave stop

TABLE A1.201.2 - STABILITY DATA IN WIND AXES WITH AIR TARES

20 deg Deadrise, L/R = 0.000, Cv = 1.5

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 1436 | 3           | 10          | 0          | 7.37         | 1.31    | -0.08   | 11.49   | -0.43      | -5.43      | 0.03       | 2.54        | 2.72     |
| 1440 | 3           | 10          | 5          | 7.37         | 1.37    | 0.63    | 11.49   | 0.08       | -5.25      | -0.12      | 2.54        | 2.72     |
| 1445 | 3           | 10          | 10         | 7.37         | 1.71    | 1.69    | 11.49   | 0.57       | -4.38      | -0.39      | 2.45        | 2.81     |
| 1449 | 3           | 10          | 15         | 7.37         | 2.43    | 3.13    | 11.49   | 0.74       | -2.91      | -0.58      | 2.30        | 2.96     |
| 1457 | 3           | 20          | 0          | 7.37         | 1.28    | 0.04    | 11.49   | -0.52      | -5.31      | 0.09       | 2.61        | 2.46     |
| 1461 | 3           | 20          | 5          | 7.37         | 1.43    | 0.79    | 11.49   | -0.18      | -5.07      | -0.19      | 2.59        | 2.48     |
| 1465 | 3           | 20          | 10         | 7.36         | 1.79    | 2.00    | 11.49   | 0.11       | -4.27      | -0.78      | 2.51        | 2.56     |
| 1469 | 3           | 20          | 15         | 7.37         | 2.39    | 3.16    | 11.49   | 0.26       | -2.75      | -1.16      | 2.42        | 2.65     |
| 1541 | 6           | -10         | 0          | 7.37         | 1.62    | -0.11   | 11.49   | 0.39       | -8.95      | 0.07       | 3.20        | 3.22     |
| 1545 | 6           | -10         | 5          | 7.37         | 1.77    | 0.85    | 11.49   | 1.12       | -8.79      | -0.87      | 3.13        | 3.29     |
| 1549 | 6           | -10         | 10         | 7.37         | 2.16    | 2.07    | 11.49   | 1.71       | -8.18      | -1.94      | 3.00        | 3.42     |
| 1553 | 6           | -10         | 15         | 7.37         | 3.16    | 4.30    | 11.49   | 1.92       | -7.29      | -3.81      | 2.73        | 3.69     |
| 1476 | 6           | 0           | 0          | 7.37         | 1.54    | 0.04    | 11.49   | 0.03       | -9.08      | 0.03       | 3.22        | 3.26     |
| 1480 | 6           | 0           | 5          | 7.37         | 1.72    | 1.00    | 11.49   | 0.87       | -8.96      | -0.87      | 3.17        | 3.31     |
| 1484 | 6           | 0           | 10         | 7.37         | 2.09    | 1.95    | 11.49   | 1.56       | -8.45      | -1.79      | 3.09        | 3.39     |
| 1488 | 6           | 0           | 15         | 7.38         | 2.79    | 3.40    | 11.49   | 2.04       | -7.63      | -3.11      | 2.93        | 3.55     |
| 1494 | 6           | 10          | 0          | 7.37         | 1.65    | 0.31    | 11.49   | -0.29      | -9.07      | -0.06      | 3.18        | 3.24     |
| 1498 | 6           | 10          | 5          | 7.36         | 1.76    | 1.29    | 11.49   | 0.48       | -8.83      | -1.05      | 3.17        | 3.25     |
| 1502 | 6           | 10          | 10         | 7.37         | 2.09    | 2.28    | 11.49   | 1.15       | -8.12      | -2.13      | 3.14        | 3.28     |
| 1506 | 6           | 10          | 15         | 7.37         | 2.66    | 3.24    | 11.49   | 1.72       | -7.40      | -3.06      | 3.06        | 3.36     |
| 1522 | 6           | 20          | 0          | 7.37         | 1.73    | 0.32    | 11.49   | -0.50      | -8.76      | 0.09       | 3.18        | 3.05     |
| 1525 | 6           | 20          | 5          | 7.36         | 1.94    | 1.47    | 11.49   | 0.18       | -8.69      | -1.04      | 3.21        | 3.02     |
| 1530 | 6           | 20          | 10         | 7.36         | 2.25    | 2.73    | 11.49   | 0.79       | -8.10      | -2.33      | 3.21        | 3.02     |
| 1534 | 6           | 20          | 15         | 7.37         | 2.65    | 3.52    | 11.49   | 1.37       | -7.26      | -3.22      | 3.24        | 2.99     |

\* Indicates model was close to heave stop

TABLE A1.203.1 - STABILITY DATA IN WIND AXES WITH AIR TARES

20 deg Deadrise, L/R = 0.000, Cv = 3

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|--------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 1710   | -2          | -10         | 0          | 14.74        | 6.41    | 1.70    | 11.49   | 0.63       | 1.24       | 1.58       | 1.68        | 1.62     |
| 1714 * | -2          | -10         | 5          | 14.72        | 7.43    | 7.82    | 11.49   | -0.05      | 2.61       | 11.16      | 1.34        | 1.96     |
| 1646   | -2          | 0           | 0          | 14.74        | 6.11    | 0.22    | 11.49   | 0.21       | 0.33       | 0.12       | 1.86        | 1.50     |
| 1650 * | -2          | 0           | 5          | 14.72        | 7.04    | 5.30    | 11.49   | -0.58      | 1.17       | 7.98       | 1.52        | 1.84     |
| 1654 * | -2          | 0           | 10         | 14.73        | 10.60   | 16.98   | 11.49   | -2.34      | 4.45       | 19.32      | 1.20        | 2.16     |
| 1721 * | -2          | 0           | 10         | 14.72        | 11.20   | 19.63   | 11.49   | -2.31      | 4.30       | 21.94      | 0.80        | 2.56     |
| 1661   | -2          | 10          | 0          | 14.77        | 6.02    | -1.27   | 11.49   | -0.12      | 1.28       | -1.27      | 1.91        | 1.39     |
| 1665   | -2          | 10          | 5          | 14.74        | 6.73    | 3.18    | 11.49   | -1.11      | 2.53       | 5.76       | 1.63        | 1.67     |
| 1680   | -2          | 10          | 5          | 14.74        | 6.70    | 3.28    | 11.49   | -0.86      | 2.53       | 6.14       | 1.57        | 1.73     |
| 1684 * | -2          | 10          | 10         | 14.74        | 9.53    | 12.73   | 11.49   | -2.18      | 4.37       | 14.85      | 1.35        | 1.95     |
| 1688 * | -2          | 10          | 15         | 14.71        | 15.18   | 23.90   | 11.49   | -2.23      | 5.55       | 22.39      | 1.39        | 1.91     |
| 1693   | -2          | 20          | 0          | 14.74        | 4.73    | -0.18   | 11.49   | -0.12      | 2.27       | -0.06      | 2.01        | 1.10     |
| 1697   | -2          | 20          | 5          | 14.73        | 5.12    | 4.01    | 11.49   | -0.78      | 3.34       | 6.86       | 1.91        | 1.20     |
| 1701 * | -2          | 20          | 10         | 14.73        | 9.88    | 10.23   | 11.49   | -2.50      | 8.60       | 11.57      | 1.31        | 1.80     |
| 1628   | 0           | -10         | 0          | 14.74        | 3.78    | 0.33    | 11.49   | 0.40       | 3.00       | 0.78       | 2.28        | 1.81     |
| 1632   | 0           | -10         | 5          | 14.73        | 4.99    | 4.30    | 11.49   | 0.01       | 2.71       | 2.52       | 2.09        | 2.00     |
| 1636 * | 0           | -10         | 10         | 14.76        | 10.46   | 17.91   | 11.49   | -1.83      | 6.05       | 10.37      | 1.09        | 3.00     |
| 1640 * | 0           | -10         | 15         | 14.73        | 15.81   | 30.34   | 11.49   | -3.32      | 6.93       | 19.15      | 1.09        | 3.00     |
| 1561   | 0           | 0           | 0          | 14.79        | 3.90    | 0.12    | 11.49   | 0.14       | 5.05       | -0.06      | 2.12        | 2.03     |
| 1565   | 0           | 0           | 5          | 14.75        | 4.67    | 3.08    | 11.49   | -0.13      | 5.38       | 2.64       | 2.21        | 1.94     |
| 1569 * | 0           | 0           | 10         | 14.77        | 9.13    | 13.18   | 11.49   | -1.60      | 7.26       | 5.70       | 1.33        | 2.82     |
| 1573 * | 0           | 0           | 15         | 14.73        | 18.50   | 35.51   | 11.49   | -2.26      | 5.05       | 25.01      | 0.59        | 3.56     |
| 1579   | 0           | 10          | 0          | 14.74        | 3.71    | -0.20   | 11.49   | -0.15      | 2.92       | -0.75      | 2.29        | 1.80     |
| 1583   | 0           | 10          | 5          | 14.71        | 4.24    | 2.59    | 11.49   | -0.38      | 6.26       | 2.05       | 2.27        | 1.82     |
| 1588   | 0           | 10          | 10         | 14.73        | 6.71    | 7.73    | 11.49   | -1.35      | 9.94       | 5.75       | 2.07        | 2.02     |
| 1592 * | 0           | 10          | 15         | 14.73        | 19.25   | 32.09   | 11.49   | -2.18      | 9.45       | 18.78      | 0.49        | 3.60     |
| 1608   | 0           | 20          | 0          | 14.75        | 3.62    | -0.40   | 11.49   | -0.27      | 1.09       | -1.23      | 2.40        | 1.50     |
| 1612   | 0           | 20          | 5          | 14.74        | 3.83    | 2.28    | 11.49   | -0.67      | 5.32       | 0.48       | 2.31        | 1.59     |
| 1616   | 0           | 20          | 10         | 14.73        | 4.44    | 4.56    | 11.49   | -1.24      | 7.54       | 2.15       | 2.55        | 1.35     |
| 1620   | 0           | 20          | 15         | 14.72        | 4.98    | 6.61    | 11.49   | -1.49      | 5.77       | 1.09       | 2.93        | 0.97     |
| 1398   | 3           | -10         | 0          | 14.73        | 2.58    | -0.21   | 11.49   | 0.64       | -3.35      | 0.48       | 3.13        | 2.13     |
| 1394   | 3           | -10         | 5          | 14.75        | 3.24    | 2.31    | 11.49   | 1.00       | -2.88      | -0.96      | 3.01        | 2.25     |
| 1391   | 3           | -10         | 10         | 14.72        | 5.35    | 7.90    | 11.49   | 0.57       | 0.04       | -3.36      | 2.67        | 2.59     |
| 1400   | 3           | -10         | 13         | 14.73        | 8.82    | 15.94   | 11.49   | -0.56      | 3.95       | -4.01      | 2.19        | 3.07     |
| 1388   | 3           | -10         | 15         | 14.74        | 13.06   | 25.27   | 11.49   | -1.66      | 6.31       | -1.76      | 1.72        | 3.54     |
| 1406   | 3           | 0           | 0          | 14.74        | 2.36    | 0.14    | 11.49   | 0.13       | -3.94      | 0.02       | 3.06        | 2.26     |
| 1410   | 3           | 0           | 5          | 14.73        | 2.80    | 1.92    | 11.49   | 0.74       | -3.58      | -0.59      | 3.03        | 2.29     |
| 1414   | 3           | 0           | 10         | 14.72        | 4.05    | 4.95    | 11.49   | 1.13       | -1.82      | -1.95      | 2.86        | 2.46     |
| 1418   | 3           | 0           | 15         | 14.74        | 8.12    | 13.43   | 11.49   | 0.06       | 3.43       | -3.95      | 2.42        | 2.90     |

\* Indicates model was close to heave stop

TABLE A1.203.2 - STABILITY DATA IN WIND AXES WITH AIR TARES

20 deg Deadrise, L/R = 0.000, Cv = 3

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 1437 | 3           | 10          | 0          | 14.75        | 2.55    | 0.53    | 11.49   | -0.45      | -3.50      | -0.69      | 3.09        | 2.17     |
| 1442 | 3           | 10          | 5          | 14.77        | 2.52    | 2.05    | 11.49   | 0.29       | -4.39      | -1.27      | 3.23        | 2.03     |
| 1446 | 3           | 10          | 10         | 14.72        | 3.03    | 3.74    | 11.49   | 1.13       | -4.98      | -2.22      | 3.31        | 1.95     |
| 1450 | 3           | 10          | 15         | 14.73        | 3.97    | 5.89    | 11.49   | 2.03       | -4.98      | -3.69      | 3.34        | 1.92     |
| 1458 | 3           | 20          | 0          | 14.75        | 2.75    | 0.45    | 11.49   | -0.69      | -3.18      | -0.03      | 3.07        | 2.00     |
| 1462 | 3           | 20          | 5          | 14.71        | 2.66    | 2.59    | 11.49   | -0.26      | -3.49      | -1.82      | 3.32        | 1.75     |
| 1466 | 3           | 20          | 10         | 14.73        | 2.78    | 3.79    | 11.49   | 0.61       | -6.17      | -3.43      | 3.65        | 1.42     |
| 1470 | 3           | 20          | 15         | 14.72        | 3.15    | 4.77    | 11.49   | 1.83       | -8.54      | -5.14      | 3.91        | 1.16     |
| 1542 | 6           | -10         | 0          | 14.74        | 2.18    | -0.73   | 11.49   | 0.61       | -10.16     | 1.12       | 4.32        | 2.10     |
| 1546 | 6           | -10         | 5          | 14.73        | 2.60    | 1.03    | 11.49   | 1.41       | -8.59      | -1.12      | 4.06        | 2.36     |
| 1550 | 6           | -10         | 10         | 14.73        | 3.73    | 4.69    | 11.49   | 1.76       | -7.09      | -5.18      | 3.79        | 2.63     |
| 1554 | 6           | -10         | 15         | 14.73        | 6.62    | 11.61   | 11.49   | 1.02       | -4.22      | -11.72     | 3.29        | 3.13     |
| 1477 | 6           | 0           | 0          | 14.74        | 2.07    | 0.08    | 11.49   | 0.15       | -11.31     | 0.06       | 4.51        | 1.97     |
| 1481 | 6           | 0           | 5          | 14.72        | 2.34    | 1.21    | 11.49   | 1.28       | -10.98     | -1.19      | 4.44        | 2.04     |
| 1485 | 6           | 0           | 10         | 14.74        | 2.83    | 2.66    | 11.49   | 2.30       | -10.23     | -2.86      | 4.34        | 2.14     |
| 1489 | 6           | 0           | 15         | 14.73        | 4.05    | 5.17    | 11.49   | 2.89       | -8.68      | -5.84      | 4.15        | 2.33     |
| 1495 | 6           | 10          | 0          | 14.75        | 2.18    | 0.95    | 11.49   | -0.37      | -10.48     | -1.09      | 4.39        | 2.03     |
| 1499 | 6           | 10          | 5          | 14.74        | 2.23    | 1.97    | 11.49   | 0.78       | -11.93     | -2.45      | 4.64        | 1.78     |
| 1503 | 6           | 10          | 10         | 14.76        | 2.55    | 2.92    | 11.49   | 2.13       | -13.06     | -3.99      | 4.83        | 1.59     |
| 1507 | 6           | 10          | 15         | 14.72        | 3.10    | 3.90    | 11.49   | 3.56       | -13.70     | -5.62      | 4.91        | 1.51     |
| 1523 | 6           | 20          | 0          | 14.74        | 2.67    | 1.64    | 11.49   | -0.76      | -8.68      | -1.42      | 4.13        | 2.10     |
| 1527 | 6           | 20          | 5          | 14.73        | 2.59    | 2.59    | 11.49   | 0.31       | -10.89     | -3.14      | 4.58        | 1.65     |
| 1531 | 6           | 20          | 10         | 14.73        | 2.60    | 3.10    | 11.49   | 1.47       | -12.62     | -4.26      | 4.96        | 1.27     |
| 1535 | 6           | 20          | 15         | 14.74        | 2.79    | 3.55    | 11.49   | 2.83       | -13.76     | -5.23      | 5.17        | 1.06     |

\* Indicates model was close to heave stop

TABLE A1.204.1 - STABILITY DATA IN WIND AXES WITH AIR TARES

20 deg Deadrise, L/R = 0.000, Cv = 4

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 1711 | * -2        | -10         | 0          | 19.68        | 11.49   | 4.07    | 11.49   | 0.89       | 0.49       | 4.35       | 1.28        | 2.02     |
| 1647 | * -2        | 0           | 0          | 19.65        | 11.78   | 0.55    | 11.49   | 0.16       | -1.21      | 0.25       | 1.31        | 2.05     |
| 1651 | * -2        | 0           | 5          | 19.67        | 13.15   | 11.53   | 11.49   | -1.15      | 0.82       | 19.67      | 1.21        | 2.15     |
| 1662 | * -2        | 10          | 0          | 19.65        | 11.81   | -3.16   | 11.49   | -0.26      | 1.11       | -5.47      | 1.20        | 2.10     |
| 1666 | * -2        | 10          | 5          | 19.66        | 12.43   | 8.11    | 11.49   | -1.53      | 3.75       | 12.66      | 1.20        | 2.10     |
| 1694 | * -2        | 20          | 0          | 19.63        | 12.82   | -5.66   | 11.49   | 0.00       | 6.79       | -10.66     | 1.27        | 1.84     |
| 1698 | * -2        | 20          | 5          | 19.65        | 13.03   | 2.99    | 11.49   | -1.22      | 9.87       | 4.93       | 1.29        | 1.82     |
| 1629 | 0           | -10         | 0          | 19.62        | 6.36    | 0.54    | 11.49   | 0.16       | 10.11      | 1.69       | 2.17        | 1.92     |
| 1633 | 0           | -10         | 5          | 19.61        | 10.23   | 7.78    | 11.49   | -0.90      | 8.80       | 4.83       | 1.59        | 2.50     |
| 1637 | * 0         | -10         | 10         | 19.66        | 17.05   | 29.75   | 11.49   | -3.15      | 10.22      | 22.09      | 1.08        | 3.01     |
| 1562 | 0           | 0           | 0          | 19.68        | 5.91    | 0.18    | 11.49   | 0.18       | 11.04      | 0.03       | 2.24        | 1.91     |
| 1566 | 0           | 0           | 5          | 19.66        | 7.92    | 5.12    | 11.49   | -0.68      | 12.33      | 5.01       | 2.15        | 2.00     |
| 1570 | * 0         | 0           | 10         | 19.67        | 20.18   | 36.03   | 11.49   | -1.96      | 6.66       | 33.38      | 0.59        | 3.56     |
| 1574 | * 0         | 0           | 15         | 19.67        | 29.51   | 52.68   | 11.49   | -7.93      | 8.72       | 38.21      | 0.59        | 3.56     |
| 1580 | 0           | 10          | 0          | 19.63        | 6.30    | -0.06   | 11.49   | 0.26       | 9.77       | -1.66      | 2.18        | 1.91     |
| 1584 | 0           | 10          | 5          | 19.66        | 6.25    | 3.10    | 11.49   | -0.65      | 11.90      | 2.45       | 2.45        | 1.64     |
| 1589 | 0           | 10          | 10         | 19.65        | 7.59    | 7.94    | 11.49   | -1.17      | 12.17      | 5.28       | 2.61        | 1.48     |
| 1593 | * 0         | 10          | 15         | 19.64        | 24.79   | 35.90   | 11.49   | -4.53      | 22.25      | 17.31      | 1.08        | 3.01     |
| 1609 | 0           | 20          | 0          | 19.67        | 6.76    | -0.34   | 11.49   | 0.07       | 6.37       | -2.14      | 2.17        | 1.73     |
| 1613 | 0           | 20          | 5          | 19.63        | 5.83    | 2.10    | 11.49   | -0.92      | 11.53      | 0.91       | 2.50        | 1.40     |
| 1617 | 0           | 20          | 10         | 19.65        | 5.39    | 4.50    | 11.49   | -1.54      | 7.55       | 0.28       | 3.04        | 0.86     |
| 1621 | 0           | 20          | 15         | 19.66        | 5.62    | 6.30    | 11.49   | -1.74      | 3.59       | -1.50      | 3.34        | 0.56     |
| 1399 | 3           | -10         | 0          | 19.66        | 3.25    | -0.27   | 11.49   | 0.65       | -3.63      | 0.63       | 3.41        | 1.85     |
| 1395 | 3           | -10         | 5          | 19.66        | 4.55    | 3.19    | 11.49   | 1.09       | -0.96      | -1.80      | 3.19        | 2.07     |
| 1385 | 3           | -10         | 10         | 19.64        | 8.42    | 12.69   | 11.49   | 0.07       | 4.54       | -5.74      | 2.69        | 2.57     |
| 1386 | 3           | -10         | 13         | 19.66        | 15.69   | 30.54   | 11.49   | -2.61      | 13.17      | -6.75      | 2.05        | 3.21     |
| 1384 | * 3         | -10         | 15         | 19.65        | 23.00   | 46.75   | 11.49   | -4.44      | 15.54      | -0.22      | 1.52        | 3.74     |
| 1407 | 3           | 0           | 0          | 19.63        | 3.27    | 0.22    | 11.49   | 0.18       | -5.60      | -0.05      | 3.47        | 1.85     |
| 1411 | 3           | 0           | 5          | 19.64        | 3.65    | 2.31    | 11.49   | 1.01       | -4.58      | -1.05      | 3.38        | 1.94     |
| 1415 | 3           | 0           | 10         | 19.64        | 5.17    | 6.07    | 11.49   | 1.54       | -1.75      | -3.13      | 3.20        | 2.12     |
| 1419 | 3           | 0           | 15         | 19.68        | 12.35   | 20.54   | 11.49   | -0.39      | 8.57       | -6.97      | 2.52        | 2.80     |

\* Indicates model was close to heave stop

TABLE A1.204.2 - STABILITY DATA IN WIND AXES WITH AIR TARES

20 deg Deadrise, L/R = 0.000, Cv = 4

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 1438 | 3           | 10          | 0          | 19.66        | 3.36    | 0.57    | 11.49   | -0.35      | -4.29      | -0.75      | 3.40        | 1.86     |
| 1443 | 3           | 10          | 5          | 19.60        | 3.22    | 2.48    | 11.49   | 0.65       | -7.54      | -2.32      | 3.70        | 1.56     |
| 1447 | 3           | 10          | 10         | 19.69        | 3.63    | 4.50    | 11.49   | 1.97       | -9.64      | -4.60      | 3.83        | 1.43     |
| 1451 | 3           | 10          | 15         | 19.64        | 4.48    | 6.66    | 11.49   | 3.39       | -10.68     | -7.28      | 3.89        | 1.37     |
| 1459 | 3           | 20          | 0          | 19.65        | 3.64    | 1.05    | 11.49   | -0.79      | -1.26      | -0.50      | 3.28        | 1.79     |
| 1463 | 3           | 20          | 5          | 19.63        | 3.32    | 2.68    | 11.49   | -0.01      | -6.26      | -2.40      | 3.78        | 1.29     |
| 1467 | 3           | 20          | 10         | 19.65        | 3.14    | 3.44    | 11.49   | 1.10       | -9.72      | -4.01      | 4.10        | 0.97     |
| 1471 | 3           | 20          | 15         | 19.64        | 3.25    | 4.24    | 11.49   | 2.41       | -11.82     | -5.47      | 4.26        | 0.81     |
| 1543 | 6           | -10         | 0          | 19.65        | 2.35    | -0.13   | 11.49   | 0.74       | -13.78     | 0.51       | 5.10        | 1.32     |
| 1547 | 6           | -10         | 5          | 19.64        | 2.74    | 1.04    | 11.49   | 1.90       | -11.52     | -1.09      | 4.82        | 1.60     |
| 1551 | 6           | -10         | 10         | 19.71        | 4.09    | 4.50    | 11.49   | 2.48       | -9.33      | -5.90      | 4.53        | 1.89     |
| 1555 | 6           | -10         | 15         | 19.67        | 7.35    | 12.38   | 11.49   | 1.48       | -5.21      | -15.24     | 4.04        | 2.38     |
| 1478 | 6           | 0           | 0          | 19.67        | 2.21    | 0.17    | 11.49   | 0.19       | -15.61     | 0.06       | 5.20        | 1.28     |
| 1482 | 6           | 0           | 5          | 19.63        | 2.44    | 1.62    | 11.49   | 1.69       | -15.39     | -2.16      | 5.20        | 1.28     |
| 1486 | 6           | 0           | 10         | 19.62        | 2.95    | 3.05    | 11.49   | 3.15       | -15.04     | -4.28      | 5.17        | 1.31     |
| 1490 | 6           | 0           | 15         | 19.64        | 3.75    | 4.53    | 11.49   | 4.55       | -14.23     | -6.51      | 5.10        | 1.38     |
| 1496 | 6           | 10          | 0          | 19.64        | 2.26    | 0.44    | 11.49   | -0.49      | -14.11     | -0.53      | 5.12        | 1.30     |
| 1500 | 6           | 10          | 5          | 19.66        | 2.35    | 1.56    | 11.49   | 0.86       | -15.07     | -2.18      | 5.21        | 1.21     |
| 1504 | 6           | 10          | 10         | 19.67        | 2.70    | 2.66    | 11.49   | 2.30       | -15.61     | -3.91      | 5.28        | 1.14     |
| 1508 | 6           | 10          | 15         | 19.66        | 3.32    | 3.85    | 11.49   | 3.78       | -15.99     | -5.85      | 5.30        | 1.12     |
| 1524 | 6           | 20          | 0          | 19.64        | 2.99    | 1.51    | 11.49   | -0.88      | -11.45     | -1.67      | 4.89        | 1.34     |
| 1528 | 6           | 20          | 5          | 19.64        | 2.54    | 1.69    | 11.49   | 0.39       | -14.09     | -2.26      | 5.32        | 0.91     |
| 1532 | 6           | 20          | 10         | 19.68        | 2.47    | 2.15    | 11.49   | 1.80       | -15.32     | -3.10      | 5.52        | 0.71     |
| 1536 | 6           | 20          | 15         | 19.64        | 2.65    | 2.52    | 11.49   | 3.32       | -16.01     | -3.75      | 5.62        | 0.61     |

\* Indicates model was close to heave stop

TABLE A1.210.1 - STABILITY DATA IN WIND AXES WITH AIR TARES

20 deg Deadrise, L/R = 0.117, Cv = 0

| RUN | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|-----|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 585 | 0           | -10         | -10        | 0            | 0.02    | 0.10    | 11.49   | -0.25      | -3.64      | -0.02      | 2.36        | 1.73     |
| 568 | 0           | -10         | -8         | 0            | 0.02    | 0.08    | 11.49   | -0.12      | -3.66      | 0.00       | 2.36        | 1.73     |
| 582 | 0           | -10         | -5         | 0            | 0.03    | 0.07    | 11.49   | 0.07       | -3.71      | 0.00       | 2.33        | 1.76     |
| 569 | 0           | -10         | 0          | 0            | 0.03    | 0.11    | 11.49   | 0.41       | -3.69      | 0.00       | 2.37        | 1.72     |
| 574 | 0           | -10         | 5          | 0            | 0.02    | 0.06    | 11.49   | 0.67       | -3.72      | 0.00       | 2.37        | 1.72     |
| 577 | 0           | -10         | 10         | 0            | 0.03    | 0.02    | 11.49   | 0.97       | -3.71      | 0.02       | 2.37        | 1.72     |
| 468 | 0           | 0           | -15        | 0            | 0.04    | 0.11    | 11.49   | -1.01      | -3.76      | -0.01      | 2.19        | 1.96     |
| 464 | 0           | 0           | -10        | 0            | 0.02    | 0.13    | 11.49   | -0.62      | -3.63      | -0.01      | 2.29        | 1.86     |
| 459 | 0           | 0           | -5         | 0            | 0.03    | 0.14    | 11.49   | -0.30      | -3.65      | -0.01      | 2.30        | 1.85     |
| 439 | 0           | 0           | 0          | 0            | 0.01    | 0.09    | 11.49   | 0.04       | -3.65      | 0.01       | 2.33        | 1.82     |
| 446 | 0           | 0           | 5          | 0            | 0.02    | 0.05    | 11.49   | 0.30       | -3.82      | 0.02       | 2.30        | 1.85     |
| 450 | 0           | 0           | 10         | 0            | 0.03    | 0.05    | 11.49   | 0.63       | -3.80      | 0.01       | 2.33        | 1.82     |
| 454 | 0           | 0           | 15         | 0            | 0.05    | 0.04    | 11.49   | 0.98       | -3.90      | 0.03       | 2.29        | 1.86     |
| 534 | 0           | 10          | -10        | 0            | 0.04    | 0.01    | 11.49   | -1.17      | -3.48      | 0.01       | 2.33        | 1.76     |
| 530 | 0           | 10          | -5         | 0            | 0.01    | 0.07    | 11.49   | -0.83      | -3.64      | -0.02      | 2.34        | 1.75     |
| 471 | 0           | 10          | 0          | 0            | 0.05    | 0.11    | 11.49   | -0.45      | -3.79      | 0.00       | 2.30        | 1.79     |
| 517 | 0           | 10          | 0          | 0            | 0.03    | 0.05    | 11.49   | -0.52      | -3.69      | 0.02       | 2.38        | 1.71     |
| 475 | 0           | 10          | 5          | 0            | 0.03    | 0.10    | 11.49   | -0.13      | -3.93      | 0.01       | 2.30        | 1.79     |
| 522 | 0           | 10          | 5          | 0            | 0.02    | 0.07    | 11.49   | -0.15      | -3.86      | 0.03       | 2.34        | 1.75     |
| 525 | 0           | 10          | 10         | 0            | 0.03    | 0.06    | 11.49   | 0.18       | -3.84      | 0.00       | 2.35        | 1.74     |
| 560 | 0           | 20          | -10        | 0            | 0.05    | -0.01   | 11.49   | -1.39      | -3.65      | 0.01       | 2.37        | 1.53     |
| 553 | 0           | 20          | -5         | 0            | 0.03    | 0.03    | 11.49   | -1.00      | -3.83      | 0.01       | 2.38        | 1.52     |
| 555 | 0           | 20          | -5         | 0            | 0.04    | -0.01   | 11.49   | -1.05      | -3.83      | 0.01       | 2.38        | 1.52     |
| 538 | 0           | 20          | 0          | 0            | 0.02    | 0.02    | 11.49   | -0.70      | -3.96      | 0.01       | 2.36        | 1.54     |
| 543 | 0           | 20          | 5          | 0            | 0.02    | 0.06    | 11.49   | -0.32      | -4.05      | 0.00       | 2.39        | 1.51     |
| 548 | 0           | 20          | 10         | 0            | 0.03    | 0.07    | 11.49   | 0.07       | -4.11      | 0.01       | 2.40        | 1.50     |
| 250 | 3           | -10         | -15        | 0            | 0.02    | -0.04   | 11.49   | -1.97      | -8.41      | -0.04      | 2.61        | 2.65     |
| 245 | 3           | -10         | -10        | 0            | -0.00   | 0.02    | 11.49   | -1.22      | -8.74      | -0.03      | 2.57        | 2.69     |
| 241 | 3           | -10         | -5         | 0            | -0.01   | -0.03   | 11.49   | -0.48      | -8.81      | -0.07      | 2.58        | 2.68     |
| 237 | 3           | -10         | 0          | 0            | -0.02   | 0.02    | 11.49   | 0.30       | -8.92      | -0.04      | 2.58        | 2.68     |
| 233 | 3           | -10         | 5          | 0            | 0.00    | 0.02    | 11.49   | 1.07       | -8.83      | -0.03      | 2.59        | 2.67     |
| 229 | 3           | -10         | 10         | 0            | 0.03    | -0.11   | 11.49   | 1.61       | -8.69      | 0.02       | 2.60        | 2.66     |
| 225 | 3           | -10         | 15         | 0            | -0.04   | -0.18   | 11.49   | 2.41       | -8.48      | -0.03      | 2.61        | 2.65     |
| 109 | 3           | 0           | -15        | 0            | -0.01   | 0.02    | 11.49   | -2.40      | -8.72      | -0.04      | 2.52        | 2.80     |
| 104 | 3           | 0           | -10        | 0            | -0.02   | 0.06    | 11.49   | -1.62      | -8.94      | -0.04      | 2.53        | 2.79     |
| 100 | 3           | 0           | -5         | 0            | -0.01   | 0.07    | 11.49   | -0.84      | -9.06      | -0.03      | 2.54        | 2.78     |
| 96  | 3           | 0           | 0          | 0            | 0.01    | -0.03   | 11.49   | -0.13      | -9.09      | -0.05      | 2.53        | 2.79     |
| 90  | 3           | 0           | 5          | 0            | -0.02   | 0.05    | 11.49   | 0.74       | -9.18      | -0.03      | 2.50        | 2.82     |
| 79  | 3           | 0           | 10         | 0            | -0.01   | -0.09   | 11.49   | 1.46       | -9.12      | -0.07      | 2.56        | 2.76     |
| 81  | 3           | 0           | 10         | 0            | -0.02   | -0.23   | 11.49   | 1.35       | -9.10      | -0.12      | 2.56        | 2.76     |
| 87  | 3           | 0           | 10         | 0            | -0.02   | 0.02    | 11.49   | 1.51       | -9.12      | -0.02      | 2.51        | 2.81     |
| 83  | 3           | 0           | 15         | 0            | 0.04    | 0.02    | 11.49   | 2.32       | -9.01      | -0.05      | 2.49        | 2.83     |

\* Indicates model was close to heave stop

TABLE A1.210.2 - STABILITY DATA IN WIND AXES WITH AIR TARES

20 deg Deadrise, L/R = 0.117, Cv = 0

| RUN | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|-----|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 113 | 3           | 10          | -15        | 0            | 0.03    | 0.03    | 11.49   | -2.76      | -8.49      | -0.06      | 2.54        | 2.72     |
| 154 | 3           | 10          | -15        | 0            | 0.09    | -0.05   | 11.49   | -2.64      | -8.16      | -0.02      | 2.66        | 2.60     |
| 159 | 3           | 10          | -10        | 0            | 0.02    | -0.03   | 11.49   | -2.03      | -8.77      | -0.04      | 2.50        | 2.76     |
| 163 | 3           | 10          | -5         | 0            | 0.01    | -0.03   | 11.49   | -1.28      | -8.95      | -0.05      | 2.57        | 2.69     |
| 167 | 3           | 10          | 0          | 0            | 0.01    | -0.12   | 11.49   | -0.55      | -8.90      | -0.06      | 2.57        | 2.69     |
| 171 | 3           | 10          | 5          | 0            | -0.00   | 0.06    | 11.49   | 0.35       | -9.04      | -0.03      | 2.55        | 2.71     |
| 185 | 3           | 10          | 5          | 0            | -0.00   | -0.01   | 11.49   | 0.29       | -8.89      | -0.01      | 2.60        | 2.66     |
| 187 | 3           | 10          | 10         | 0            | -0.03   | -0.04   | 11.49   | 1.09       | -8.98      | -0.03      | 2.60        | 2.66     |
| 191 | 3           | 10          | 15         | 0            | 0.02    | 0.21    | 11.49   | 2.05       | -8.93      | 0.07       | 2.58        | 2.68     |
| 219 | 3           | 20          | -15        | 0            | -0.05   | 0.02    | 11.49   | -2.74      | -8.41      | -0.03      | 2.58        | 2.49     |
| 215 | 3           | 20          | -10        | 0            | -0.01   | 0.05    | 11.49   | -2.04      | -8.71      | -0.03      | 2.58        | 2.49     |
| 211 | 3           | 20          | -5         | 0            | 0.01    | 0.01    | 11.49   | -1.30      | -8.81      | -0.03      | 2.59        | 2.48     |
| 203 | 3           | 20          | 5          | 0            | 0.01    | 0.01    | 11.49   | 0.22       | -8.83      | -0.03      | 2.62        | 2.45     |
| 207 | 3           | 20          | 5          | 0            | -0.01   | 0.04    | 11.49   | 0.26       | -9.00      | -0.03      | 2.58        | 2.49     |
| 199 | 3           | 20          | 10         | 0            | -0.03   | 0.02    | 11.49   | 1.04       | -9.01      | 0.00       | 2.60        | 2.47     |
| 195 | 3           | 20          | 15         | 0            | -0.01   | 0.04    | 11.49   | 1.83       | -8.86      | -0.03      | 2.60        | 2.47     |
| 419 | 6           | -10         | -15        | 0            | -0.04   | 0.03    | 11.49   | -2.80      | -11.44     | -0.06      | 2.90        | 3.52     |
| 415 | 6           | -10         | -10        | 0            | -0.05   | 0.04    | 11.49   | -1.77      | -11.48     | -0.06      | 2.93        | 3.49     |
| 411 | 6           | -10         | -5         | 0            | -0.02   | -0.03   | 11.49   | -0.82      | -11.71     | -0.07      | 2.92        | 3.50     |
| 393 | 6           | -10         | 0          | 0            | -0.03   | 0.01    | 11.49   | 0.23       | -11.59     | -0.05      | 2.97        | 3.45     |
| 397 | 6           | -10         | 5          | 0            | -0.04   | 0.03    | 11.49   | 1.27       | -11.74     | -0.04      | 2.94        | 3.48     |
| 401 | 6           | -10         | 10         | 0            | -0.05   | 0.02    | 11.49   | 2.25       | -11.54     | -0.04      | 2.94        | 3.48     |
| 405 | 6           | -10         | 15         | 0            | -0.04   | 0.00    | 11.49   | 3.23       | -11.31     | -0.04      | 2.95        | 3.47     |
| 295 | 6           | 0           | -15        | 0            | -0.03   | 0.01    | 11.49   | -3.22      | -11.74     | -0.08      | 2.90        | 3.58     |
| 291 | 6           | 0           | -10        | 0            | -0.03   | 0.08    | 11.49   | -2.13      | -11.95     | -0.10      | 2.92        | 3.56     |
| 287 | 6           | 0           | -5         | 0            | -0.03   | 0.04    | 11.49   | -1.11      | -12.11     | -0.04      | 2.92        | 3.56     |
| 267 | 6           | 0           | 0          | 0            | -0.04   | 0.04    | 11.49   | -0.06      | -12.17     | -0.05      | 2.93        | 3.55     |
| 273 | 6           | 0           | 5          | 0            | -0.02   | -0.02   | 11.49   | 0.96       | -12.11     | -0.05      | 2.94        | 3.54     |
| 277 | 6           | 0           | 5          | 0            | -0.06   | 0.06    | 11.49   | 0.99       | -12.06     | -0.03      | 2.96        | 3.52     |
| 282 | 6           | 0           | 10         | 0            | -0.04   | 0.07    | 11.49   | 2.08       | -12.16     | -0.04      | 2.93        | 3.55     |
| 283 | 6           | 0           | 15         | 0            | -0.03   | 0.02    | 11.49   | 3.05       | -11.69     | -0.05      | 2.98        | 3.50     |
| 299 | 6           | 10          | -15        | 0            | -0.02   | -0.01   | 11.49   | -3.42      | -11.46     | -0.08      | 2.93        | 3.49     |
| 304 | 6           | 10          | -10        | 0            | -0.05   | 0.03    | 11.49   | -2.40      | -11.78     | -0.09      | 2.94        | 3.48     |
| 308 | 6           | 10          | -5         | 0            | -0.06   | 0.07    | 11.49   | -1.36      | -12.06     | -0.06      | 2.92        | 3.50     |
| 321 | 6           | 10          | -5         | 0            | -0.06   | 0.07    | 11.49   | -1.33      | -11.92     | -0.07      | 2.92        | 3.50     |
| 324 | 6           | 10          | 0          | 0            | -0.05   | 0.09    | 11.49   | -0.26      | -12.15     | -0.05      | 2.93        | 3.49     |
| 328 | 6           | 10          | 5          | 0            | -0.05   | 0.04    | 11.49   | 0.74       | -12.09     | -0.06      | 2.93        | 3.49     |
| 332 | 6           | 10          | 10         | 0            | -0.05   | 0.08    | 11.49   | 1.82       | -12.11     | -0.05      | 2.92        | 3.50     |
| 336 | 6           | 10          | 15         | 0            | -0.06   | -0.02   | 11.49   | 2.76       | -11.82     | -0.05      | 2.95        | 3.47     |
| 364 | 6           | 20          | -15        | 0            | -0.01   | -0.05   | 11.49   | -3.61      | -11.21     | -0.09      | 2.97        | 3.26     |
| 360 | 6           | 20          | -10        | 0            | -0.02   | 0.03    | 11.49   | -2.57      | -11.49     | -0.06      | 2.98        | 3.25     |
| 356 | 6           | 20          | -5         | 0            | -0.02   | -0.00   | 11.49   | -1.62      | -11.70     | -0.06      | 2.98        | 3.25     |
| 340 | 6           | 20          | 0          | 0            | -0.01   | -0.02   | 11.49   | -0.62      | -11.76     | -0.06      | 3.00        | 3.23     |
| 344 | 6           | 20          | 5          | 0            | -0.05   | 0.01    | 11.49   | 0.45       | -11.81     | -0.03      | 3.01        | 3.22     |
| 348 | 6           | 20          | 10         | 0            | -0.05   | 0.05    | 11.49   | 1.52       | -11.80     | -0.04      | 3.00        | 3.23     |
| 352 | 6           | 20          | 15         | 0            | -0.04   | -0.05   | 11.49   | 2.46       | -11.62     | -0.05      | 3.00        | 3.23     |

\* Indicates model was close to heave stop



TABLE A1.211.1 - STABILITY DATA IN WIND AXES WITH AIR TARES

20 deg Deadrise, L/R = 0.117, Cv = 1.5

| RUN   | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|-------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 586   | 0           | -10         | -10        | 7.42         | 1.90    | -2.92   | 11.49   | 0.72       | 0.68       | -2.87      | 1.88        | 2.21     |
| 581   | 0           | -10         | -5         | 7.42         | 1.42    | -1.89   | 11.49   | 0.44       | 0.19       | -1.34      | 1.97        | 2.12     |
| 570   | 0           | -10         | 0          | 7.44         | 1.25    | -1.20   | 11.49   | 0.35       | 0.19       | -0.23      | 2.01        | 2.08     |
| 573   | 0           | -10         | 5          | 7.44         | 1.49    | -0.60   | 11.49   | 0.07       | 0.47       | 0.73       | 1.92        | 2.17     |
| 578   | 0           | -10         | 10         | 7.41         | 2.14    | 0.84    | 11.49   | -0.54      | 1.32       | 1.78       | 1.68        | 2.41     |
| 469 * | 0           | 0           | -15        | 7.36         | 3.33    | -6.11   | 11.49   | 0.87       | 1.87       | -5.70      | 1.44        | 2.71     |
| 465   | 0           | 0           | -10        | 7.38         | 1.91    | -3.15   | 11.49   | 0.44       | 0.68       | -3.03      | 1.79        | 2.36     |
| 460   | 0           | 0           | -5         | 7.38         | 1.41    | -1.96   | 11.49   | 0.01       | 0.02       | -1.50      | 1.93        | 2.22     |
| 443   | 0           | 0           | 0          | 7.37         | 1.30    | -1.60   | 11.49   | -0.24      | 0.19       | -0.42      | 1.98        | 2.17     |
| 447   | 0           | 0           | 5          | 7.37         | 1.35    | -1.00   | 11.49   | -0.29      | 0.30       | 0.44       | 1.93        | 2.22     |
| 451   | 0           | 0           | 10         | 7.38         | 1.83    | 0.04    | 11.49   | -0.59      | 1.11       | 1.45       | 1.80        | 2.35     |
| 455 * | 0           | 0           | 15         | 7.37         | 3.18    | 2.62    | 11.49   | -1.21      | 2.40       | 2.99       | 1.43        | 2.72     |
| 535   | 0           | 10          | -10        | 7.42         | 2.06    | -3.74   | 11.49   | -0.06      | 0.41       | -3.50      | 1.75        | 2.34     |
| 531   | 0           | 10          | -5         | 7.43         | 1.44    | -2.31   | 11.49   | -0.48      | 0.05       | -1.81      | 1.94        | 2.15     |
| 472   | 0           | 10          | 0          | 7.38         | 1.27    | -1.50   | 11.49   | -0.56      | -0.15      | -0.67      | 1.98        | 2.11     |
| 518   | 0           | 10          | 0          | 7.36         | 1.23    | -1.65   | 11.49   | -0.70      | -0.04      | -0.66      | 2.04        | 2.05     |
| 476   | 0           | 10          | 5          | 7.59         | 1.39    | -1.00   | 11.49   | -0.63      | 0.15       | 0.40       | 1.96        | 2.13     |
| 523   | 0           | 10          | 5          | 7.43         | 1.26    | -1.06   | 11.49   | -0.63      | 0.12       | 0.27       | 2.00        | 2.09     |
| 526   | 0           | 10          | 10         | 7.42         | 1.69    | -0.20   | 11.49   | -0.84      | 0.81       | 1.19       | 1.91        | 2.18     |
| 561   | 0           | 20          | -10        | 7.45         | 2.25    | -3.86   | 11.49   | -0.09      | 0.24       | -3.51      | 1.72        | 2.18     |
| 556   | 0           | 20          | -5         | 7.30         | 1.46    | -2.22   | 11.49   | -0.54      | -0.26      | -1.74      | 1.98        | 1.92     |
| 539   | 0           | 20          | 0          | 7.42         | 1.29    | -1.53   | 11.49   | -0.79      | -0.17      | -0.81      | 2.02        | 1.88     |
| 544   | 0           | 20          | 5          | 7.40         | 1.27    | -0.88   | 11.49   | -0.79      | 0.00       | -0.05      | 2.03        | 1.87     |
| 549   | 0           | 20          | 10         | 7.39         | 1.71    | 0.13    | 11.49   | -1.03      | 0.89       | 1.01       | 1.91        | 1.99     |
| 251   | 3           | -10         | -15        | 7.32         | 2.21    | -4.31   | 11.49   | -0.87      | -2.70      | -0.39      | 2.27        | 2.99     |
| 246   | 3           | -10         | -10        | 7.34         | 1.61    | -2.89   | 11.49   | -0.68      | -4.23      | -0.30      | 2.37        | 2.89     |
| 242   | 3           | -10         | -5         | 7.31         | 1.28    | -1.78   | 11.49   | -0.21      | -4.95      | -0.35      | 2.43        | 2.83     |
| 238   | 3           | -10         | 0          | 7.32         | 1.20    | -0.88   | 11.49   | 0.30       | -5.10      | -0.35      | 2.44        | 2.82     |
| 234   | 3           | -10         | 5          | 7.29         | 1.47    | -0.11   | 11.49   | 0.67       | -4.59      | -0.41      | 2.37        | 2.89     |
| 230   | 3           | -10         | 10         | 7.31         | 2.05    | 0.98    | 11.49   | 0.51       | -3.68      | -0.72      | 2.23        | 3.03     |
| 226   | 3           | -10         | 15         | 7.34         | 3.38    | 3.80    | 11.49   | -0.10      | -2.02      | -1.55      | 1.89        | 3.37     |
| 108   | 3           | 0           | -15        | 7.33         | 2.62    | -5.01   | 11.49   | -1.44      | -3.38      | -0.71      | 2.12        | 3.20     |
| 110   | 3           | 0           | -15        | 7.25         | 2.54    | -4.84   | 11.49   | -1.38      | -3.47      | -0.70      | 2.13        | 3.19     |
| 105   | 3           | 0           | -10        | 7.33         | 1.67    | -2.92   | 11.49   | -1.33      | -4.76      | -0.53      | 2.33        | 2.99     |
| 101   | 3           | 0           | -5         | 7.33         | 1.34    | -1.97   | 11.49   | -0.89      | -5.21      | -0.43      | 2.42        | 2.90     |
| 97    | 3           | 0           | 0          | 7.29         | 1.24    | -1.32   | 11.49   | -0.33      | -5.29      | -0.37      | 2.42        | 2.90     |
| 91    | 3           | 0           | 5          | 7.20         | 1.35    | -0.52   | 11.49   | 0.25       | -5.10      | -0.44      | 2.34        | 2.98     |
| 92    | 3           | 0           | 5          | 7.33         | 1.37    | -0.59   | 11.49   | 0.19       | -5.04      | -0.43      | 2.39        | 2.93     |
| 88    | 3           | 0           | 10         | 7.33         | 1.81    | 0.48    | 11.49   | 0.52       | -4.29      | -0.67      | 2.23        | 3.09     |
| 86    | 3           | 0           | 15         | 7.32         | 2.89    | 2.70    | 11.49   | 0.40       | -2.85      | -1.24      | 2.00        | 3.32     |

\* Indicates model was close to heave stop

TABLE A1.211.2 - STABILITY DATA IN WIND AXES WITH AIR TARES

20 deg Deadrise, L/R = 0.117, Cv = 1.5

| RUN | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|-----|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 114 | 3           | 10          | -15        | 7.29         | 2.92    | -5.49   | 11.49   | -1.54      | -3.28      | -0.87      | 2.00        | 3.26     |
| 160 | 3           | 10          | -10        | 7.35         | 1.84    | -3.06   | 11.49   | -1.54      | -4.53      | -0.44      | 2.25        | 3.01     |
| 164 | 3           | 10          | -5         | 7.34         | 1.45    | -2.04   | 11.49   | -1.28      | -5.18      | -0.42      | 2.41        | 2.85     |
| 168 | 3           | 10          | 0          | 7.34         | 1.31    | -1.19   | 11.49   | -0.67      | -5.29      | -0.35      | 2.45        | 2.81     |
| 172 | 3           | 10          | 5          | 7.32         | 1.36    | -0.60   | 11.49   | -0.25      | -5.20      | -0.54      | 2.40        | 2.86     |
| 188 | 3           | 10          | 10         | 7.34         | 1.67    | 0.43    | 11.49   | 0.24       | -4.21      | -0.83      | 2.37        | 2.89     |
| 192 | 3           | 10          | 15         | 7.34         | 2.53    | 2.13    | 11.49   | 0.41       | -2.68      | -1.10      | 2.20        | 3.06     |
| 220 | 3           | 20          | -15        | 7.34         | 2.67    | -5.22   | 11.49   | -1.30      | -3.46      | -0.63      | 2.07        | 3.00     |
| 216 | 3           | 20          | -10        | 7.35         | 1.72    | -2.96   | 11.49   | -1.38      | -4.52      | -0.48      | 2.30        | 2.77     |
| 212 | 3           | 20          | -5         | 7.33         | 1.34    | -1.92   | 11.49   | -1.18      | -5.07      | -0.40      | 2.43        | 2.64     |
| 204 | 3           | 20          | 5          | 7.35         | 1.28    | -0.54   | 11.49   | -0.32      | -5.05      | -0.61      | 2.49        | 2.58     |
| 208 | 3           | 20          | 5          | 7.35         | 1.17    | -1.37   | 11.49   | -0.31      | -5.31      | -0.45      | 2.47        | 2.60     |
| 200 | 3           | 20          | 10         | 7.35         | 1.68    | 0.53    | 11.49   | 0.16       | -4.23      | -0.94      | 2.37        | 2.70     |
| 196 | 3           | 20          | 15         | 7.34         | 2.43    | 1.85    | 11.49   | 0.26       | -2.77      | -1.20      | 2.24        | 2.83     |
| 420 | 6           | -10         | -15        | 7.36         | 2.18    | -4.09   | 11.49   | -1.93      | -7.34      | 2.17       | 2.91        | 3.51     |
| 416 | 6           | -10         | -10        | 7.38         | 1.77    | -3.23   | 11.49   | -1.34      | -8.03      | 1.43       | 2.97        | 3.45     |
| 412 | 6           | -10         | -5         | 7.38         | 1.48    | -2.32   | 11.49   | -0.76      | -8.50      | 0.39       | 3.00        | 3.42     |
| 409 | 6           | -10         | -5         | 7.43         | 1.48    | -2.26   | 11.49   | -0.74      | -8.46      | 0.40       | 3.01        | 3.41     |
| 394 | 6           | -10         | 0          | 7.36         | 1.47    | -1.26   | 11.49   | 0.01       | -8.58      | -0.51      | 2.99        | 3.43     |
| 398 | 6           | -10         | 5          | 7.38         | 1.69    | -0.22   | 11.49   | 0.68       | -8.27      | -1.45      | 2.90        | 3.52     |
| 402 | 6           | -10         | 10         | 7.37         | 2.18    | 1.23    | 11.49   | 1.11       | -7.57      | -2.77      | 2.74        | 3.68     |
| 406 | 6           | -10         | 15         | 7.37         | 3.21    | 3.50    | 11.49   | 1.13       | -6.46      | -4.81      | 2.56        | 3.86     |
| 296 | 6           | 0           | -15        | 7.34         | 2.22    | -3.96   | 11.49   | -2.30      | -7.75      | 1.97       | 2.87        | 3.61     |
| 292 | 6           | 0           | -10        | 7.33         | 1.77    | -2.82   | 11.49   | -1.78      | -8.48      | 1.02       | 2.97        | 3.51     |
| 288 | 6           | 0           | -5         | 7.35         | 1.52    | -1.84   | 11.49   | -0.99      | -8.96      | 0.29       | 3.02        | 3.46     |
| 268 | 6           | 0           | 0          | 7.34         | 1.37    | -1.12   | 11.49   | -0.31      | -9.04      | -0.54      | 3.03        | 3.45     |
| 274 | 6           | 0           | 5          | 7.32         | 1.66    | -0.21   | 11.49   | 0.48       | -8.70      | -1.36      | 2.98        | 3.50     |
| 278 | 6           | 0           | 10         | 7.35         | 1.99    | 0.91    | 11.49   | 1.16       | -7.99      | -2.30      | 2.94        | 3.54     |
| 284 | 6           | 0           | 15         | 7.34         | 2.88    | 2.58    | 11.49   | 1.44       | -7.02      | -3.87      | 2.76        | 3.72     |
| 300 | 6           | 10          | -15        | 7.35         | 2.46    | -4.39   | 11.49   | -2.41      | -7.55      | 2.27       | 2.79        | 3.63     |
| 305 | 6           | 10          | -10        | 7.33         | 1.79    | -2.77   | 11.49   | -2.05      | -8.40      | 0.99       | 2.94        | 3.48     |
| 309 | 6           | 10          | -5         | 7.33         | 1.58    | -1.84   | 11.49   | -1.46      | -8.85      | 0.16       | 2.99        | 3.43     |
| 325 | 6           | 10          | 0          | 7.34         | 1.46    | -0.81   | 11.49   | -0.59      | -9.06      | -0.65      | 3.06        | 3.36     |
| 329 | 6           | 10          | 5          | 7.28         | 1.60    | 0.27    | 11.49   | 0.16       | -8.73      | -1.68      | 3.00        | 3.42     |
| 333 | 6           | 10          | 10         | 7.35         | 2.00    | 1.25    | 11.49   | 0.89       | -8.05      | -2.61      | 2.95        | 3.47     |
| 337 | 6           | 10          | 15         | 7.35         | 2.63    | 2.34    | 11.49   | 1.34       | -7.16      | -3.69      | 2.89        | 3.53     |
| 365 | 6           | 20          | -15        | 7.33         | 2.85    | -5.46   | 11.49   | -2.32      | -7.41      | 2.92       | 2.72        | 3.51     |
| 361 | 6           | 20          | -10        | 7.33         | 1.99    | -3.21   | 11.49   | -2.12      | -8.22      | 1.34       | 2.89        | 3.34     |
| 357 | 6           | 20          | -5         | 7.34         | 1.67    | -1.89   | 11.49   | -1.62      | -8.67      | 0.34       | 3.00        | 3.23     |
| 341 | 6           | 20          | 0          | 7.35         | 1.63    | -0.70   | 11.49   | -0.96      | -8.73      | -0.69      | 3.06        | 3.17     |
| 345 | 6           | 20          | 5          | 7.34         | 1.77    | 0.44    | 11.49   | -0.27      | -8.62      | -1.75      | 3.10        | 3.13     |
| 349 | 6           | 20          | 10         | 7.34         | 2.16    | 1.69    | 11.49   | 0.40       | -7.91      | -2.97      | 3.05        | 3.18     |
| 353 | 6           | 20          | 15         | 7.31         | 2.62    | 2.33    | 11.49   | 1.00       | -7.38      | -3.61      | 3.09        | 3.14     |

\* Indicates model was close to heave stop

TABLE A1.213.1 - STABILITY DATA IN WIND AXES WITH AIR TARES

20 deg Deadrise, L/R = 0.117, Cv = 3

| RUN   | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|-------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 587   | 0           | -10         | -10        | 14.75        | 6.59    | -13.43  | 11.49   | 1.28       | 8.83       | -9.18      | 1.99        | 2.10     |
| 583   | 0           | -10         | -5         | 14.74        | 4.22    | -8.78   | 11.49   | 0.05       | 5.69       | -3.68      | 2.16        | 1.93     |
| 571   | 0           | -10         | 0          | 14.71        | 3.67    | -5.97   | 11.49   | -0.57      | 2.92       | -0.78      | 2.20        | 1.89     |
| 575   | 0           | -10         | 5          | 14.74        | 5.06    | -1.87   | 11.49   | -1.47      | 4.31       | 0.25       | 1.86        | 2.23     |
| 579 * | 0           | -10         | 10         | 14.74        | 8.59    | 7.24    | 11.49   | -3.55      | 7.39       | 2.66       | 1.43        | 2.66     |
| 486 * | 0           | 0           | -10        | 14.74        | 8.10    | -17.04  | 11.49   | 1.19       | 4.98       | -10.60     | 1.44        | 2.71     |
| 481   | 0           | 0           | -5         | 14.77        | 4.46    | -9.21   | 11.49   | -0.35      | 4.45       | -4.89      | 2.13        | 2.02     |
| 444   | 0           | 0           | 0          | 14.81        | 3.73    | -6.47   | 11.49   | -0.88      | 4.61       | -1.60      | 2.16        | 1.99     |
| 448   | 0           | 0           | 5          | 14.81        | 4.50    | -3.76   | 11.49   | -1.49      | 5.93       | 0.66       | 2.02        | 2.13     |
| 452 * | 0           | 0           | 10         | 14.81        | 7.97    | 4.54    | 11.49   | -3.26      | 9.75       | 0.17       | 1.43        | 2.72     |
| 456 * | 0           | 0           | 15         | 14.77        | 12.05   | 14.08   | 11.49   | -4.62      | 11.75      | 2.26       | 1.43        | 2.72     |
| 536   | 0           | 10          | -10        | 14.71        | 7.87    | -18.26  | 11.49   | 0.31       | 1.92       | -12.60     | 1.60        | 2.49     |
| 532   | 0           | 10          | -5         | 14.70        | 4.47    | -9.89   | 11.49   | -0.83      | 1.29       | -5.06      | 2.08        | 2.01     |
| 473   | 0           | 10          | 0          | 14.77        | 3.73    | -7.19   | 11.49   | -1.67      | 2.93       | -2.67      | 2.15        | 1.94     |
| 478   | 0           | 10          | 5          | 14.64        | 4.11    | -3.88   | 11.49   | -1.40      | 5.83       | 0.35       | 2.15        | 1.94     |
| 527   | 0           | 10          | 10         | 14.71        | 6.11    | 0.64    | 11.49   | -2.52      | 9.49       | 2.54       | 1.97        | 2.12     |
| 528   | 0           | 10          | 10         | 14.71        | 6.14    | 0.60    | 11.49   | -2.55      | 9.54       | 2.52       | 1.97        | 2.12     |
| 562 * | 0           | 20          | -10        | 14.72        | 9.05    | -18.36  | 11.49   | 2.93       | 12.97      | -10.58     | 1.49        | 2.41     |
| 567   | 0           | 20          | -8         | 14.74        | 6.38    | -15.15  | 11.49   | 0.43       | 3.12       | -8.87      | 1.85        | 2.05     |
| 557   | 0           | 20          | -5         | 14.61        | 4.42    | -9.93   | 11.49   | -0.76      | 1.25       | -4.28      | 2.13        | 1.77     |
| 558   | 0           | 20          | -5         | 14.71        | 4.50    | -10.24  | 11.49   | -0.89      | 1.31       | -4.42      | 2.13        | 1.77     |
| 540   | 0           | 20          | 0          | 14.70        | 3.53    | -6.53   | 11.49   | -1.23      | 1.13       | -2.12      | 2.25        | 1.65     |
| 546   | 0           | 20          | 5          | 14.68        | 3.69    | -4.01   | 11.49   | -1.59      | 4.49       | -0.71      | 2.20        | 1.70     |
| 550   | 0           | 20          | 10         | 14.68        | 4.39    | -1.38   | 11.49   | -2.05      | 6.17       | 0.49       | 2.45        | 1.45     |
| 252   | 3           | -10         | -15        | 14.74        | 3.31    | -11.20  | 11.49   | -2.51      | -4.73      | 2.28       | 3.25        | 2.01     |
| 247   | 3           | -10         | -10        | 14.74        | 2.71    | -9.26   | 11.49   | -1.58      | -3.84      | 1.08       | 3.14        | 2.12     |
| 243   | 3           | -10         | -5         | 14.72        | 2.37    | -7.56   | 11.49   | -0.83      | -2.86      | 0.39       | 3.01        | 2.25     |
| 239   | 3           | -10         | 0          | 14.74        | 2.51    | -5.40   | 11.49   | -0.39      | -2.86      | -0.58      | 2.91        | 2.35     |
| 235   | 3           | -10         | 5          | 14.74        | 3.45    | -2.35   | 11.49   | -0.30      | -1.86      | -2.24      | 2.75        | 2.51     |
| 231   | 3           | -10         | 10         | 14.72        | 6.20    | 5.02    | 11.49   | -1.25      | 1.82       | -5.60      | 2.33        | 2.93     |
| 227 * | 3           | -10         | 15         | 14.73        | 13.96   | 22.76   | 11.49   | -5.04      | 9.39       | -6.82      | 1.45        | 3.81     |
| 111   | 3           | 0           | -15        | 14.74        | 6.67    | -16.67  | 11.49   | -1.24      | 2.11       | 0.07       | 2.50        | 2.82     |
| 106   | 3           | 0           | -10        | 14.78        | 3.41    | -9.74   | 11.49   | -2.04      | -2.52      | -0.22      | 2.83        | 2.49     |
| 102   | 3           | 0           | -5         | 14.78        | 2.59    | -7.33   | 11.49   | -1.59      | -3.74      | -0.50      | 2.89        | 2.43     |
| 98    | 3           | 0           | 0          | 14.78        | 2.24    | -5.60   | 11.49   | -0.93      | -3.99      | -0.70      | 2.93        | 2.39     |
| 94    | 3           | 0           | 5          | 14.78        | 2.93    | -3.11   | 11.49   | -0.36      | -2.94      | -1.63      | 2.85        | 2.47     |
| 89    | 3           | 0           | 10         | 14.78        | 4.67    | 0.91    | 11.49   | -0.35      | -0.05      | -3.41      | 2.59        | 2.73     |
| 85    | 3           | 0           | 15         | 14.78        | 9.82    | 11.66   | 11.49   | -2.37      | 6.00       | -6.95      | 2.10        | 3.22     |

\* Indicates model was close to heave stop

TABLE A1.213.2 - STABILITY DATA IN WIND AXES WITH AIR TARES

20 deg Deadrise, L/R = 0.117, Cv = 3

| RUN | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|-----|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 115 | 3           | 10          | -15        | 14.74        | 10.39   | -25.29  | 11.49   | 0.30       | 5.17       | -0.88      | 1.95        | 3.31     |
| 155 | 3           | 10          | -15        | 14.67        | 9.76    | -23.59  | 11.49   | -0.24      | 4.84       | 0.09       | 2.12        | 3.14     |
| 156 | 3           | 10          | -15        | 14.77        | 9.82    | -23.86  | 11.49   | 0.06       | 4.80       | -0.08      | 2.10        | 3.16     |
| 161 | 3           | 10          | -10        | 14.81        | 4.26    | -11.29  | 11.49   | -1.96      | -1.36      | 0.70       | 2.63        | 2.63     |
| 165 | 3           | 10          | -5         | 14.81        | 2.74    | -7.29   | 11.49   | -2.06      | -3.50      | -0.50      | 2.93        | 2.33     |
| 169 | 3           | 10          | 0          | 14.81        | 2.39    | -5.27   | 11.49   | -1.43      | -4.06      | -1.23      | 3.00        | 2.26     |
| 173 | 3           | 10          | 5          | 14.81        | 2.39    | -3.61   | 11.49   | -0.62      | -4.82      | -1.76      | 3.13        | 2.13     |
| 189 | 3           | 10          | 10         | 14.77        | 2.98    | -1.73   | 11.49   | 0.17       | -5.14      | -2.94      | 3.20        | 2.06     |
| 193 | 3           | 10          | 15         | 14.78        | 4.16    | 0.65    | 11.49   | 0.88       | -4.48      | -4.56      | 3.18        | 2.08     |
| 221 | 3           | 20          | -15        | 14.74        | 8.83    | -22.05  | 11.49   | -0.42      | 2.33       | 0.02       | 2.18        | 2.89     |
| 217 | 3           | 20          | -10        | 14.73        | 4.22    | -11.37  | 11.49   | -1.68      | -1.21      | 0.95       | 2.68        | 2.39     |
| 213 | 3           | 20          | -5         | 14.74        | 2.67    | -7.02   | 11.49   | -1.90      | -3.46      | -0.35      | 2.93        | 2.14     |
| 209 | 3           | 20          | 0          | 14.74        | 2.36    | -5.14   | 11.49   | -1.54      | -3.95      | -1.45      | 3.02        | 2.05     |
| 205 | 3           | 20          | 5          | 14.75        | 2.38    | -3.45   | 11.49   | -0.73      | -5.10      | -2.16      | 3.20        | 1.87     |
| 201 | 3           | 20          | 10         | 14.75        | 2.90    | -1.62   | 11.49   | 0.19       | -6.06      | -3.50      | 3.29        | 1.78     |
| 197 | 3           | 20          | 15         | 14.74        | 3.78    | 0.33    | 11.49   | 1.34       | -7.04      | -5.48      | 3.38        | 1.69     |
| 421 | 6           | -10         | -15        | 14.82        | 2.52    | -9.67   | 11.49   | -4.22      | -12.72     | 4.39       | 4.55        | 1.87     |
| 417 | 6           | -10         | -10        | 14.82        | 2.07    | -8.67   | 11.49   | -2.85      | -12.03     | 2.96       | 4.41        | 2.01     |
| 413 | 6           | -10         | -5         | 14.80        | 1.78    | -7.68   | 11.49   | -1.64      | -10.59     | 1.55       | 4.25        | 2.17     |
| 395 | 6           | -10         | 0          | 14.81        | 2.11    | -6.43   | 11.49   | -0.52      | -8.65      | 0.22       | 3.96        | 2.46     |
| 399 | 6           | -10         | 5          | 14.79        | 2.75    | -3.38   | 11.49   | 0.03       | -7.67      | -3.42      | 3.73        | 2.69     |
| 403 | 6           | -10         | 10         | 14.78        | 4.30    | 1.41    | 11.49   | -0.13      | -5.56      | -8.35      | 3.36        | 3.06     |
| 407 | 6           | -10         | 15         | 14.81        | 7.82    | 9.82    | 11.49   | -1.64      | -1.64      | -15.65     | 2.89        | 3.53     |
| 297 | 6           | 0           | -15        | 14.74        | 2.91    | -9.51   | 11.49   | -4.01      | -9.56      | 3.30       | 4.14        | 2.34     |
| 293 | 6           | 0           | -10        | 14.74        | 2.18    | -7.98   | 11.49   | -3.14      | -10.60     | 1.74       | 4.26        | 2.22     |
| 289 | 6           | 0           | -5         | 14.72        | 1.75    | -6.82   | 11.49   | -2.10      | -10.96     | 0.48       | 4.30        | 2.18     |
| 269 | 6           | 0           | 0          | 14.72        | 1.77    | -5.52   | 11.49   | -0.89      | -10.94     | -0.71      | 4.28        | 2.20     |
| 275 | 6           | 0           | 5          | 14.70        | 2.12    | -4.26   | 11.49   | 0.21       | -10.34     | -1.98      | 4.22        | 2.26     |
| 279 | 6           | 0           | 10         | 14.71        | 3.02    | -2.23   | 11.49   | 1.00       | -9.37      | -4.40      | 4.05        | 2.43     |
| 280 | 6           | 0           | 10         | 14.70        | 2.98    | -2.30   | 11.49   | 0.96       | -9.32      | -4.37      | 4.06        | 2.42     |
| 285 | 6           | 0           | 15         | 14.72        | 4.76    | 1.49    | 11.49   | 1.11       | -7.00      | -8.54      | 3.77        | 2.71     |
| 302 | 6           | 10          | -15        | 14.72        | 4.34    | -12.47  | 11.49   | -2.91      | -6.02      | 5.96       | 3.50        | 2.92     |
| 306 | 6           | 10          | -10        | 14.74        | 2.75    | -8.17   | 11.49   | -3.07      | -8.15      | 1.75       | 3.83        | 2.59     |
| 310 | 6           | 10          | -5         | 14.74        | 2.03    | -6.03   | 11.49   | -2.40      | -9.60      | -0.50      | 4.09        | 2.33     |
| 326 | 6           | 10          | 0          | 14.71        | 1.73    | -4.86   | 11.49   | -1.49      | -11.38     | -1.88      | 4.34        | 2.08     |
| 330 | 6           | 10          | 5          | 14.67        | 1.86    | -3.71   | 11.49   | -0.26      | -12.70     | -3.47      | 4.52        | 1.90     |
| 334 | 6           | 10          | 10         | 14.67        | 2.29    | -2.65   | 11.49   | 1.09       | -13.58     | -5.01      | 4.65        | 1.77     |
| 338 | 6           | 10          | 15         | 14.70        | 2.96    | -1.69   | 11.49   | 2.37       | -13.91     | -6.70      | 4.72        | 1.70     |
| 366 | 6           | 20          | -15        | 14.74        | 5.99    | -16.94  | 11.49   | -1.87      | -5.23      | 9.21       | 3.22        | 3.01     |
| 362 | 6           | 20          | -10        | 14.74        | 3.41    | -9.90   | 11.49   | -2.76      | -7.12      | 3.51       | 3.61        | 2.62     |
| 358 | 6           | 20          | -5         | 14.74        | 2.60    | -6.20   | 11.49   | -2.64      | -8.29      | -0.11      | 3.85        | 2.38     |
| 342 | 6           | 20          | 0          | 14.71        | 2.06    | -4.06   | 11.49   | -1.91      | -10.10     | -2.61      | 4.22        | 2.01     |
| 346 | 6           | 20          | 5          | 14.74        | 2.17    | -3.49   | 11.49   | -0.91      | -12.12     | -3.89      | 4.62        | 1.61     |
| 350 | 6           | 20          | 10         | 14.75        | 2.40    | -2.97   | 11.49   | 0.33       | -13.58     | -4.90      | 4.86        | 1.37     |
| 354 | 6           | 20          | 15         | 14.74        | 2.65    | -2.74   | 11.49   | 1.54       | -14.22     | -5.62      | 5.04        | 1.19     |

\* Indicates model was close to heave stop

TABLE A1.214.1 - STABILITY DATA IN WIND AXES WITH AIR TARES

20 deg Deadrise, L/R = 0.117, Cv = 4

| RUN   | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|-------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 588   | 0           | -10         | -10        | 19.67        | 10.84   | -22.51  | 11.49   | 2.11       | 17.46      | -15.85     | 2.06        | 2.03     |
| 584   | 0           | -10         | -5         | 19.62        | 6.63    | -14.71  | 11.49   | -0.41      | 11.97      | -5.61      | 2.32        | 1.77     |
| 572   | 0           | -10         | 0          | 19.63        | 6.13    | -11.24  | 11.49   | -1.56      | 9.18       | -0.70      | 2.18        | 1.91     |
| 576 * | 0           | -10         | 5          | 19.63        | 10.27   | -2.42   | 11.49   | -3.31      | 11.11      | -1.23      | 1.44        | 2.65     |
| 580 * | 0           | -10         | 10         | 19.62        | 14.34   | 12.93   | 11.49   | -6.57      | 13.63      | 4.35       | 1.43        | 2.66     |
| 467 * | 0           | 0           | -10        | 19.68        | 13.88   | -29.48  | 11.49   | 1.71       | 10.90      | -19.63     | 1.43        | 2.72     |
| 462   | 0           | 0           | -5         | 19.70        | 7.53    | -16.10  | 11.49   | -0.36      | 10.37      | -8.93      | 2.13        | 2.02     |
| 445   | 0           | 0           | 0          | 19.67        | 5.78    | -11.78  | 11.49   | -1.76      | 10.02      | -2.07      | 2.26        | 1.89     |
| 449   | 0           | 0           | 5          | 19.68        | 7.43    | -7.07   | 11.49   | -2.84      | 12.16      | 1.35       | 2.08        | 2.07     |
| 453 * | 0           | 0           | 10         | 19.69        | 13.34   | 6.66    | 11.49   | -5.88      | 17.89      | 1.67       | 1.43        | 2.72     |
| 457 * | 0           | 0           | 15         | 19.67        | 20.94   | 23.97   | 11.49   | -9.00      | 21.05      | 4.56       | 1.42        | 2.73     |
| 537 * | 0           | 10          | -10        | 19.61        | 14.45   | -33.86  | 11.49   | 2.08       | 5.54       | -26.39     | 1.43        | 2.66     |
| 533   | 0           | 10          | -5         | 19.62        | 8.52    | -18.10  | 11.49   | -0.88      | 5.52       | -10.41     | 1.87        | 2.22     |
| 474   | 0           | 10          | 0          | 19.68        | 6.19    | -11.83  | 11.49   | -1.39      | 8.99       | -4.07      | 2.16        | 1.93     |
| 519   | 0           | 10          | 0          | 19.81        | 6.19    | -12.18  | 11.49   | -1.61      | 9.28       | -4.28      | 2.16        | 1.93     |
| 520   | 0           | 10          | 0          | 19.45        | 6.04    | -11.91  | 11.49   | -1.56      | 8.85       | -4.16      | 2.17        | 1.92     |
| 79    | 0           | 10          | 5          | 19.88        | 6.04    | -8.65   | 11.49   | -2.45      | 9.91       | -0.19      | 2.46        | 1.63     |
| 521   | 0           | 10          | 5          | 19.76        | 5.96    | -8.73   | 11.49   | -2.39      | 9.99       | -0.20      | 2.43        | 1.66     |
| 529   | 0           | 10          | 10         | 19.75        | 7.96    | -2.97   | 11.49   | -3.35      | 13.04      | 2.74       | 2.42        | 1.67     |
| 563   | 0           | 20          | -10        | 19.62        | 14.52   | -29.30  | 11.49   | 4.97       | 24.06      | -18.66     | 1.61        | 2.29     |
| 566 * | 0           | 20          | -8         | 19.62        | 13.33   | -31.18  | 11.49   | 1.61       | 6.89       | -25.68     | 1.44        | 2.46     |
| 554   | 0           | 20          | -5         | 19.45        | 8.18    | -17.70  | 11.49   | -0.60      | 4.41       | -9.72      | 2.01        | 1.89     |
| 559   | 0           | 20          | -5         | 19.74        | 8.68    | -19.56  | 11.49   | -1.26      | 4.69       | -11.02     | 1.96        | 1.94     |
| 541   | 0           | 20          | 0          | 19.56        | 6.68    | -11.51  | 11.49   | -1.84      | 4.29       | -3.90      | 2.12        | 1.78     |
| 547   | 0           | 20          | 5          | 19.55        | 5.53    | -9.04   | 11.49   | -2.58      | 8.60       | -1.35      | 2.51        | 1.39     |
| 564   | 0           | 20          | 5          | 19.62        | 5.68    | -8.88   | 11.49   | -2.61      | 8.90       | -1.19      | 2.49        | 1.41     |
| 551   | 0           | 20          | 10         | 19.57        | 5.58    | -5.89   | 11.49   | -3.22      | 6.08       | -1.24      | 2.93        | 0.97     |
| 552   | 0           | 20          | 10         | 19.50        | 5.57    | -5.79   | 11.49   | -3.23      | 6.08       | -1.25      | 2.93        | 0.97     |
| 565   | 0           | 20          | 10         | 19.62        | 5.55    | -6.30   | 11.49   | -3.28      | 6.51       | -1.06      | 2.90        | 1.00     |
| 253   | 3           | -10         | -15        | 19.68        | 3.70    | -16.83  | 11.49   | -4.51      | -9.49      | 5.17       | 3.73        | 1.53     |
| 248   | 3           | -10         | -10        | 19.64        | 3.07    | -14.66  | 11.49   | -3.11      | -7.83      | 2.94       | 3.62        | 1.64     |
| 249   | 3           | -10         | -10        | 19.68        | 2.97    | -14.63  | 11.49   | -3.12      | -7.86      | 2.90       | 3.64        | 1.62     |
| 244   | 3           | -10         | -5         | 19.68        | 2.99    | -12.73  | 11.49   | -1.99      | -4.78      | 0.92       | 3.41        | 1.85     |
| 240   | 3           | -10         | 0          | 19.67        | 3.44    | -10.03  | 11.49   | -1.05      | -1.59      | -0.73      | 3.17        | 2.09     |
| 236   | 3           | -10         | 5          | 19.68        | 5.01    | -5.17   | 11.49   | -1.21      | 0.56       | -4.26      | 2.96        | 2.30     |
| 232   | 3           | -10         | 10         | 19.67        | 10.70   | 9.37    | 11.49   | -3.55      | 9.51       | -9.63      | 2.24        | 3.02     |
| 228 * | 3           | -10         | 15         | 19.69        | 23.27   | 39.49   | 11.49   | -9.90      | 21.17      | -11.74     | 1.44        | 3.82     |
| 254 * | 3           | -10         | 15         | 19.63        | 23.20   | 39.18   | 11.49   | -10.21     | 21.03      | -11.40     | 1.45        | 3.81     |
| 112   | 3           | 0           | -15        | 19.69        | 8.89    | -25.31  | 11.49   | -2.13      | 4.16       | 1.86       | 2.76        | 2.56     |
| 107   | 3           | 0           | -10        | 19.75        | 3.81    | -14.91  | 11.49   | -3.27      | -3.96      | 0.89       | 3.27        | 2.05     |
| 103   | 3           | 0           | -5         | 19.73        | 3.23    | -12.36  | 11.49   | -2.50      | -5.06      | 0.06       | 3.31        | 2.01     |
| 99    | 3           | 0           | 0          | 19.74        | 3.15    | -10.16  | 11.49   | -1.59      | -4.83      | -0.65      | 3.29        | 2.03     |
| 95    | 3           | 0           | 5          | 19.70        | 3.90    | -7.06   | 11.49   | -0.79      | -3.44      | -2.40      | 3.20        | 2.12     |
| 82    | 3           | 0           | 10         | 19.69        | 6.28    | -1.62   | 11.49   | -0.87      | 1.00       | -5.41      | 2.99        | 2.33     |
| 84    | 3           | 0           | 15         | 19.63        | 15.21   | 16.93   | 11.49   | -4.52      | 13.49      | -10.58     | 2.20        | 3.12     |

\* Indicates model was close to heave stop

TABLE A1.214.2 - STABILITY DATA IN WIND AXES WITH AIR TARES

20 deg Deadrise, L/R = 0.117, Cv = 4

| RUN | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|-----|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 158 | 3           | 10          | -15        | 19.63        | 15.68   | -39.20  | 11.49   | -0.66      | 10.52      | -3.38      | 2.20        | 3.06     |
| 162 | 3           | 10          | -10        | 19.76        | 5.34    | -16.71  | 11.49   | -2.85      | 0.27       | 1.40       | 3.01        | 2.25     |
| 166 | 3           | 10          | -5         | 19.75        | 3.64    | -12.13  | 11.49   | -2.93      | -2.90      | -0.66      | 3.18        | 2.08     |
| 170 | 3           | 10          | 0          | 19.76        | 2.99    | -9.86   | 11.49   | -2.13      | -6.02      | -1.58      | 3.40        | 1.86     |
| 174 | 3           | 10          | 5          | 19.73        | 3.05    | -7.78   | 11.49   | -1.04      | -8.72      | -3.47      | 3.61        | 1.65     |
| 186 | 3           | 10          | 5          | 19.73        | 2.92    | -7.77   | 11.49   | -1.13      | -8.76      | -3.57      | 3.63        | 1.63     |
| 190 | 3           | 10          | 10         | 19.69        | 3.54    | -5.55   | 11.49   | 0.08       | -10.22     | -6.11      | 3.69        | 1.57     |
| 194 | 3           | 10          | 15         | 19.68        | 4.71    | -3.01   | 11.49   | 1.49       | -10.94     | -8.99      | 3.74        | 1.52     |
| 222 | 3           | 20          | -15        | 19.64        | 10.92   | -30.20  | 11.49   | -1.14      | 5.34       | 1.49       | 2.73        | 2.34     |
| 224 | 3           | 20          | -14        | 19.62        | 14.49   | -38.02  | 11.49   | 0.79       | 11.45      | 0.31       | 2.11        | 2.96     |
| 223 | 3           | 20          | -13        | 19.64        | 11.94   | -31.79  | 11.49   | -0.62      | 8.61       | 1.25       | 2.28        | 2.79     |
| 218 | 3           | 20          | -10        | 19.64        | 5.69    | -17.39  | 11.49   | -2.40      | 0.92       | 1.82       | 2.93        | 2.14     |
| 214 | 3           | 20          | -5         | 19.70        | 3.58    | -11.92  | 11.49   | -2.87      | -2.51      | -0.55      | 3.17        | 1.90     |
| 210 | 3           | 20          | 0          | 19.69        | 2.95    | -9.76   | 11.49   | -2.27      | -5.75      | -1.72      | 3.43        | 1.64     |
| 206 | 3           | 20          | 5          | 19.69        | 2.95    | -7.83   | 11.49   | -1.29      | -8.87      | -3.65      | 3.68        | 1.39     |
| 202 | 3           | 20          | 10         | 19.69        | 3.47    | -5.69   | 11.49   | -0.08      | -10.54     | -6.02      | 3.75        | 1.32     |
| 198 | 3           | 20          | 15         | 19.68        | 4.44    | -3.68   | 11.49   | 1.13       | -11.31     | -8.65      | 3.80        | 1.27     |
| 422 | 6           | -10         | -15        | 19.68        | 2.48    | -14.29  | 11.49   | -5.28      | -14.83     | 4.10       | 4.99        | 1.43     |
| 418 | 6           | -10         | -10        | 19.68        | 1.99    | -13.13  | 11.49   | -3.93      | -14.44     | 2.40       | 4.99        | 1.43     |
| 414 | 6           | -10         | -5         | 19.68        | 1.80    | -12.10  | 11.49   | -2.61      | -13.82     | 0.96       | 4.93        | 1.49     |
| 396 | 6           | -10         | 0          | 19.70        | 2.08    | -10.75  | 11.49   | -1.27      | -12.55     | -0.61      | 4.77        | 1.65     |
| 400 | 6           | -10         | 5          | 19.70        | 2.84    | -8.62   | 11.49   | -0.37      | -10.33     | -3.46      | 4.51        | 1.91     |
| 404 | 6           | -10         | 10         | 19.67        | 4.83    | -3.14   | 11.49   | -0.40      | -7.27      | -10.19     | 4.08        | 2.34     |
| 408 | 6           | -10         | 15         | 19.67        | 10.39   | 11.07   | 11.49   | -3.45      | 0.37       | -24.13     | 3.29        | 3.13     |
| 298 | 6           | 0           | -15        | 19.68        | 2.90    | -14.96  | 11.49   | -6.05      | -14.49     | 5.17       | 4.95        | 1.53     |
| 294 | 6           | 0           | -10        | 19.67        | 2.25    | -13.38  | 11.49   | -4.66      | -14.79     | 2.95       | 5.00        | 1.48     |
| 290 | 6           | 0           | -5         | 19.67        | 1.77    | -11.87  | 11.49   | -3.30      | -15.14     | 0.75       | 5.01        | 1.47     |
| 270 | 6           | 0           | 0          | 19.64        | 1.73    | -9.92   | 11.49   | -1.57      | -15.02     | -1.21      | 5.03        | 1.45     |
| 272 | 6           | 0           | 0          | 19.61        | 1.67    | -10.31  | 11.49   | -1.83      | -15.11     | -1.38      | 5.04        | 1.44     |
| 276 | 6           | 0           | 5          | 19.61        | 2.20    | -8.73   | 11.49   | -0.38      | -15.06     | -3.51      | 4.99        | 1.49     |
| 281 | 6           | 0           | 10         | 19.62        | 2.81    | -7.27   | 11.49   | 1.03       | -14.69     | -5.66      | 4.97        | 1.51     |
| 286 | 6           | 0           | 15         | 19.64        | 3.77    | -5.63   | 11.49   | 2.36       | -13.91     | -7.95      | 4.92        | 1.56     |
| 303 | 6           | 10          | -15        | 19.68        | 4.00    | -16.40  | 11.49   | -4.88      | -8.65      | 6.40       | 4.44        | 1.98     |
| 307 | 6           | 10          | -10        | 19.68        | 2.68    | -13.06  | 11.49   | -4.66      | -11.24     | 2.14       | 4.64        | 1.78     |
| 311 | 6           | 10          | -5         | 19.68        | 2.04    | -11.61  | 11.49   | -3.68      | -13.46     | 0.35       | 4.91        | 1.51     |
| 322 | 6           | 10          | -5         | 19.58        | 2.10    | -11.68  | 11.49   | -3.82      | -13.43     | 0.28       | 4.91        | 1.51     |
| 327 | 6           | 10          | 0          | 19.61        | 1.83    | -10.34  | 11.49   | -2.53      | -14.83     | -1.39      | 5.01        | 1.41     |
| 331 | 6           | 10          | 5          | 19.58        | 1.84    | -9.24   | 11.49   | -1.21      | -15.17     | -2.92      | 5.12        | 1.30     |
| 335 | 6           | 10          | 10         | 19.57        | 2.35    | -8.08   | 11.49   | 0.17       | -15.93     | -4.81      | 5.12        | 1.30     |
| 339 | 6           | 10          | 15         | 19.62        | 3.04    | -6.81   | 11.49   | 1.53       | -15.94     | -6.78      | 5.13        | 1.29     |
| 367 | 6           | 20          | -15        | 19.63        | 7.06    | -23.90  | 11.49   | -2.32      | -5.28      | 13.91      | 3.80        | 2.43     |
| 363 | 6           | 20          | -10        | 19.63        | 3.73    | -14.88  | 11.49   | -3.92      | -8.15      | 4.57       | 4.33        | 1.90     |
| 359 | 6           | 20          | -5         | 19.63        | 2.78    | -10.73  | 11.49   | -3.93      | -10.41     | -0.60      | 4.57        | 1.66     |
| 343 | 6           | 20          | 0          | 19.62        | 2.06    | -9.88   | 11.49   | -2.93      | -13.49     | -1.91      | 5.04        | 1.19     |
| 347 | 6           | 20          | 5          | 19.61        | 2.07    | -9.38   | 11.49   | -1.70      | -15.23     | -2.85      | 5.24        | 0.99     |
| 351 | 6           | 20          | 10         | 19.62        | 2.15    | -9.15   | 11.49   | -0.30      | -15.90     | -3.33      | 5.39        | 0.84     |
| 355 | 6           | 20          | 15         | 19.64        | 2.30    | -9.07   | 11.49   | 1.04       | -15.97     | -3.70      | 5.48        | 0.75     |

\* Indicates model was close to heave stop

TABLE A1.220.1 - STABILITY DATA IN WIND AXES WITH AIR TARES

20 deg Deadrise, L/R = 0.234, Cv = 0

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 2934 | 0           | -10         | -15        | 0            | 0.02    | -0.08   | 11.49   | -0.43      | -3.57      | 0.03       | 2.26        | 1.83     |
| 2930 | 0           | -10         | -10        | 0            | 0.03    | -0.06   | 11.49   | -0.08      | -3.55      | -0.01      | 2.27        | 1.82     |
| 2926 | 0           | -10         | -5         | 0            | 0.03    | -0.02   | 11.49   | 0.26       | -3.53      | -0.05      | 2.26        | 1.83     |
| 2912 | 0           | -10         | 0          | 0            | 0.04    | -0.05   | 11.49   | 0.49       | -3.36      | 0.02       | 2.27        | 1.82     |
| 2916 | 0           | -10         | 5          | 0            | 0.01    | 0.01    | 11.49   | 0.88       | -3.39      | 0.01       | 2.27        | 1.82     |
| 2920 | 0           | -10         | 10         | 0            | 0.00    | -0.03   | 11.49   | 1.15       | -3.28      | 0.02       | 2.28        | 1.81     |
| 2924 | 0           | -10         | 15         | 0            | -0.00   | -0.05   | 11.49   | 1.39       | -3.22      | 0.02       | 2.26        | 1.83     |
| 2830 | 0           | 0           | -15        | 0            | 0.06    | -0.07   | 11.49   | -0.89      | -3.79      | 0.00       | 2.23        | 1.92     |
| 2831 | 0           | 0           | -15        | 0            | 0.07    | -0.06   | 11.49   | -0.89      | -3.78      | 0.00       | 2.23        | 1.92     |
| 2825 | 0           | 0           | -10        | 0            | 0.06    | -0.05   | 11.49   | -0.56      | -3.74      | -0.01      | 2.28        | 1.87     |
| 2821 | 0           | 0           | -5         | 0            | 0.05    | -0.04   | 11.49   | -0.20      | -3.67      | -0.01      | 2.28        | 1.87     |
| 2797 | 0           | 0           | 0          | 0            | 0.03    | 0.02    | 11.49   | 0.11       | -3.61      | -0.03      | 2.24        | 1.91     |
| 2802 | 0           | 0           | 5          | 0            | 0.05    | 0.01    | 11.49   | 0.43       | -3.67      | -0.01      | 2.24        | 1.91     |
| 2816 | 0           | 0           | 10         | 0            | 0.08    | 0.06    | 11.49   | 0.81       | -3.57      | 0.09       | 2.28        | 1.87     |
| 2859 | 0           | 10          | -15        | 0            | 0.08    | -0.09   | 11.49   | -1.37      | -3.65      | -0.03      | 2.27        | 1.82     |
| 2855 | 0           | 10          | -10        | 0            | 0.07    | -0.04   | 11.49   | -1.00      | -3.84      | -0.02      | 2.26        | 1.83     |
| 2851 | 0           | 10          | -5         | 0            | 0.06    | -0.03   | 11.49   | -0.65      | -3.68      | -0.01      | 2.32        | 1.77     |
| 2835 | 0           | 10          | 0          | 0            | 0.02    | -0.09   | 11.49   | -0.37      | -3.60      | 0.02       | 2.33        | 1.76     |
| 2839 | 0           | 10          | 5          | 0            | 0.01    | -0.06   | 11.49   | -0.00      | -3.74      | 0.05       | 2.31        | 1.78     |
| 2843 | 0           | 10          | 10         | 0            | 0.04    | -0.07   | 11.49   | 0.31       | -3.71      | 0.03       | 2.32        | 1.77     |
| 2847 | 0           | 10          | 15         | 0            | 0.04    | -0.08   | 11.49   | 0.62       | -3.65      | 0.04       | 2.33        | 1.76     |
| 2895 | 0           | 20          | -15        | 0            | 0.09    | -0.03   | 11.49   | -1.58      | -3.96      | 0.01       | 2.25        | 1.65     |
| 2889 | 0           | 20          | -10        | 0            | 0.06    | 0.01    | 11.49   | -1.11      | -3.73      | 0.01       | 2.40        | 1.50     |
| 2891 | 0           | 20          | -10        | 0            | 0.08    | -0.03   | 11.49   | -1.13      | -3.70      | 0.02       | 2.40        | 1.50     |
| 2880 | 0           | 20          | -5         | 0            | 0.06    | -0.07   | 11.49   | -0.42      | -0.13      | -0.03      | 2.36        | 1.54     |
| 2885 | 0           | 20          | -5         | 0            | 0.05    | -0.03   | 11.49   | -0.77      | -3.73      | 0.01       | 2.42        | 1.48     |
| 2864 | 0           | 20          | 0          | 0            | 0.04    | -0.05   | 11.49   | -0.48      | -3.66      | -0.01      | 2.46        | 1.44     |
| 2868 | 0           | 20          | 5          | 0            | 0.00    | -0.07   | 11.49   | -0.13      | -3.77      | 0.00       | 2.40        | 1.50     |
| 2872 | 0           | 20          | 10         | 0            | 0.02    | -0.06   | 11.49   | 0.21       | -3.78      | 0.01       | 2.41        | 1.49     |
| 2876 | 0           | 20          | 15         | 0            | 0.06    | -0.05   | 11.49   | 0.53       | -3.74      | 0.00       | 2.40        | 1.50     |
| 3072 | 3           | -10         | -15        | 0            | 0.01    | -0.02   | 11.49   | -1.77      | -8.53      | 0.02       | 2.65        | 2.61     |
| 3068 | 3           | -10         | -10        | 0            | 0.01    | 0.00    | 11.49   | -0.97      | -8.66      | 0.00       | 2.65        | 2.61     |
| 3064 | 3           | -10         | -5         | 0            | 0.02    | 0.02    | 11.49   | -0.21      | -8.67      | 0.01       | 2.64        | 2.62     |
| 3047 | 3           | -10         | 0          | 0            | -0.03   | -0.08   | 11.49   | 0.49       | -8.55      | -0.02      | 2.65        | 2.61     |
| 3051 | 3           | -10         | 5          | 0            | 0.01    | -0.02   | 11.49   | 1.27       | -8.57      | 0.03       | 2.64        | 2.62     |
| 3056 | 3           | -10         | 10         | 0            | 0.01    | -0.01   | 11.49   | 2.01       | -8.44      | 0.03       | 2.64        | 2.62     |
| 3061 | 3           | -10         | 15         | 0            | 0.01    | 0.01    | 11.49   | 2.74       | -8.27      | 0.01       | 2.65        | 2.61     |
| 2967 | 3           | 0           | -15        | 0            | 0.00    | -0.01   | 11.49   | -2.22      | -8.85      | 0.03       | 2.53        | 2.79     |
| 2962 | 3           | 0           | -10        | 0            | 0.00    | -0.02   | 11.49   | -1.45      | -9.01      | 0.06       | 2.52        | 2.80     |
| 2958 | 3           | 0           | -5         | 0            | 0.01    | -0.02   | 11.49   | -0.64      | -9.11      | 0.04       | 2.51        | 2.81     |
| 2942 | 3           | 0           | 0          | 0            | -0.01   | -0.04   | 11.49   | 0.13       | -8.89      | 0.03       | 2.52        | 2.80     |
| 2946 | 3           | 0           | 5          | 0            | -0.00   | -0.02   | 11.49   | 0.95       | -9.00      | 0.09       | 2.50        | 2.82     |
| 2950 | 3           | 0           | 10         | 0            | 0.02    | -0.02   | 11.49   | 1.72       | -8.89      | 0.05       | 2.50        | 2.82     |
| 2954 | 3           | 0           | 15         | 0            | 0.02    | -0.05   | 11.49   | 2.45       | -8.69      | 0.02       | 2.52        | 2.80     |

\* Indicates model was close to heave stop

TABLE A1.220.2 - STABILITY DATA IN WIND AXES WITH AIR TARES

20 deg Deadrise, L/R = 0.234, Cv = 0

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 2984 | 3           | 10          | -15        | 0            | -0.01   | -0.01   | 11.49   | -2.48      | -8.53      | 0.03       | 2.54        | 2.72     |
| 2980 | 3           | 10          | -10        | 0            | 0.01    | -0.05   | 11.49   | -1.77      | -8.72      | 0.01       | 2.54        | 2.72     |
| 2976 | 3           | 10          | -5         | 0            | 0.01    | -0.04   | 11.49   | -1.02      | -8.79      | 0.02       | 2.55        | 2.71     |
| 2972 | 3           | 10          | 0          | 0            | 0.00    | 0.05    | 11.49   | -0.18      | -8.65      | 0.02       | 2.57        | 2.69     |
| 2989 | 3           | 10          | 5          | 0            | 0.03    | -0.03   | 11.49   | 0.56       | -8.93      | 0.00       | 2.51        | 2.75     |
| 2993 | 3           | 10          | 10         | 0            | 0.01    | -0.01   | 11.49   | 1.37       | -8.85      | 0.04       | 2.51        | 2.75     |
| 2997 | 3           | 10          | 15         | 0            | 0.01    | -0.04   | 11.49   | 2.07       | -8.70      | 0.01       | 2.52        | 2.74     |
| 3042 | 3           | 20          | -15        | 0            | 0.03    | -0.01   | 11.49   | -2.57      | -8.10      | 0.02       | 2.65        | 2.42     |
| 3037 | 3           | 20          | -10        | 0            | 0.02    | -0.03   | 11.49   | -1.87      | -8.23      | 0.06       | 2.65        | 2.42     |
| 3033 | 3           | 20          | -5         | 0            | 0.03    | -0.02   | 11.49   | -1.11      | -8.34      | 0.02       | 2.65        | 2.42     |
| 3003 | 3           | 20          | 0          | 0            | 0.02    | 0.00    | 11.49   | -0.39      | -8.44      | 0.02       | 2.61        | 2.46     |
| 3007 | 3           | 20          | 5          | 0            | 0.02    | -0.05   | 11.49   | 0.31       | -8.61      | 0.02       | 2.58        | 2.49     |
| 3024 | 3           | 20          | 10         | 0            | -0.01   | -0.05   | 11.49   | 1.02       | -8.35      | 0.07       | 2.61        | 2.46     |
| 3029 | 3           | 20          | 15         | 0            | 0.01    | -0.08   | 11.49   | 1.70       | -8.27      | 0.10       | 2.64        | 2.43     |
| 3198 | 6           | -10         | -15        | 0            | -0.02   | 0.05    | 11.49   | -2.70      | -11.83     | 0.05       | 3.01        | 3.41     |
| 3194 | 6           | -10         | -10        | 0            | -0.02   | 0.05    | 11.49   | -1.63      | -11.82     | 0.04       | 3.03        | 3.39     |
| 3190 | 6           | -10         | -5         | 0            | -0.01   | 0.05    | 11.49   | -0.62      | -12.10     | 0.04       | 3.01        | 3.41     |
| 3186 | 6           | -10         | 0          | 0            | -0.02   | 0.07    | 11.49   | 0.43       | -11.75     | 0.03       | 3.06        | 3.36     |
| 3202 | 6           | -10         | 5          | 0            | 0.00    | 0.05    | 11.49   | 1.51       | -11.82     | 0.05       | 3.03        | 3.39     |
| 3206 | 6           | -10         | 10         | 0            | 0.02    | 0.04    | 11.49   | 2.47       | -11.67     | 0.03       | 3.04        | 3.38     |
| 3210 | 6           | -10         | 15         | 0            | 0.01    | 0.05    | 11.49   | 3.46       | -11.31     | 0.05       | 3.06        | 3.36     |
| 3106 | 6           | 0           | -15        | 0            | -0.02   | 0.03    | 11.49   | -2.99      | -11.88     | 0.02       | 3.03        | 3.45     |
| 3101 | 6           | 0           | -10        | 0            | -0.02   | 0.04    | 11.49   | -1.93      | -12.15     | 0.03       | 3.02        | 3.46     |
| 3097 | 6           | 0           | -5         | 0            | 0.01    | 0.02    | 11.49   | -0.86      | -12.18     | 0.04       | 3.03        | 3.45     |
| 3079 | 6           | 0           | 0          | 0            | -0.01   | 0.02    | 11.49   | 0.14       | -12.17     | 0.00       | 3.01        | 3.47     |
| 3093 | 6           | 0           | 15         | 0            | 0.01    | 0.02    | 11.49   | 3.33       | -11.74     | 0.04       | 3.02        | 3.46     |
| 3150 | 6           | 10          | -15        | 0            | -0.02   | 0.01    | 11.49   | -3.20      | -11.66     | 0.02       | 3.03        | 3.39     |
| 3146 | 6           | 10          | -10        | 0            | -0.02   | 0.03    | 11.49   | -2.16      | -11.87     | 0.02       | 3.02        | 3.40     |
| 3142 | 6           | 10          | -5         | 0            | -0.01   | 0.02    | 11.49   | -1.11      | -12.00     | 0.03       | 3.02        | 3.40     |
| 3125 | 6           | 10          | 0          | 0            | -0.07   | 0.09    | 11.49   | -0.06      | -11.55     | 0.05       | 3.05        | 3.37     |
| 3129 | 6           | 10          | 5          | 0            | -0.01   | 0.01    | 11.49   | 0.95       | -12.02     | 0.04       | 2.99        | 3.43     |
| 3134 | 6           | 10          | 10         | 0            | 0.00    | 0.01    | 11.49   | 1.97       | -11.82     | 0.04       | 3.01        | 3.41     |
| 3138 | 6           | 10          | 15         | 0            | 0.03    | -0.01   | 11.49   | 2.99       | -11.59     | 0.01       | 3.02        | 3.40     |
| 3168 | 6           | 20          | -15        | 0            | -0.02   | 0.06    | 11.49   | -3.30      | -11.32     | 0.05       | 3.02        | 3.21     |
| 3164 | 6           | 20          | -10        | 0            | -0.01   | 0.03    | 11.49   | -2.33      | -11.54     | 0.05       | 3.03        | 3.20     |
| 3160 | 6           | 20          | -5         | 0            | -0.01   | 0.06    | 11.49   | -1.26      | -11.51     | 0.04       | 3.05        | 3.18     |
| 3156 | 6           | 20          | 0          | 0            | -0.03   | 0.02    | 11.49   | -0.32      | -11.43     | 0.06       | 3.12        | 3.11     |
| 3172 | 6           | 20          | 5          | 0            | -0.00   | -0.01   | 11.49   | 0.71       | -11.85     | 0.04       | 3.01        | 3.22     |
| 3176 | 6           | 20          | 10         | 0            | -0.00   | 0.04    | 11.49   | 1.69       | -11.24     | 0.05       | 3.12        | 3.11     |
| 3180 | 6           | 20          | 15         | 0            | 0.03    | 0.06    | 11.49   | 2.72       | -11.21     | 0.06       | 3.08        | 3.15     |

\* Indicates model was close to heave stop



TABLE A1.221.1 - STABILITY DATA IN WIND AXES WITH AIR TARES

20 deg Deadrise, L/R = 0.234, Cv = 1.5

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|--------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 2935   | 0           | -10         | -15        | 7.36         | 3.42    | -8.43   | 11.49   | 0.58       | 1.12       | -7.35      | 1.54        | 2.55     |
| 2936   | 0           | -10         | -15        | 7.36         | 3.32    | -8.33   | 11.49   | 0.55       | 1.06       | -7.17      | 1.58        | 2.51     |
| 2931   | 0           | -10         | -10        | 7.36         | 2.09    | -6.00   | 11.49   | 0.17       | 0.39       | -4.37      | 1.89        | 2.20     |
| 2927   | 0           | -10         | -5         | 7.36         | 1.52    | -4.43   | 11.49   | 0.09       | 0.21       | -2.37      | 2.02        | 2.07     |
| 2913   | 0           | -10         | 0          | 7.35         | 1.27    | -3.56   | 11.49   | -0.09      | 0.32       | -1.05      | 2.03        | 2.06     |
| 2917   | 0           | -10         | 5          | 7.36         | 1.38    | -2.76   | 11.49   | -0.24      | 0.98       | -0.06      | 1.95        | 2.14     |
| 2921   | 0           | -10         | 10         | 7.36         | 2.12    | -1.23   | 11.49   | -0.76      | 2.30       | 0.56       | 1.69        | 2.40     |
| 2925 * | 0           | -10         | 15         | 7.36         | 3.62    | 1.65    | 11.49   | -2.09      | 4.24       | 1.98       | 1.34        | 2.75     |
| 2832 * | 0           | 0           | -15        | 7.36         | 3.95    | -9.87   | 11.49   | 0.22       | 0.36       | -8.43      | 1.46        | 2.69     |
| 2826   | 0           | 0           | -10        | 7.36         | 2.24    | -6.26   | 11.49   | -0.02      | 0.37       | -4.50      | 1.83        | 2.32     |
| 2822   | 0           | 0           | -5         | 7.36         | 1.50    | -4.51   | 11.49   | -0.19      | -0.05      | -2.36      | 2.01        | 2.14     |
| 2799   | 0           | 0           | 0          | 7.35         | 1.33    | -3.58   | 11.49   | -0.34      | 0.19       | -1.11      | 2.03        | 2.12     |
| 2803   | 0           | 0           | 5          | 7.35         | 1.43    | -2.99   | 11.49   | -0.44      | 0.78       | -0.21      | 1.95        | 2.20     |
| 2817   | 0           | 0           | 10         | 7.35         | 1.90    | -1.81   | 11.49   | -0.81      | 1.96       | 0.77       | 1.80        | 2.35     |
| 2860 * | 0           | 10          | -15        | 7.36         | 4.01    | -9.05   | 11.49   | 0.39       | 0.98       | -8.13      | 1.46        | 2.63     |
| 2856   | 0           | 10          | -10        | 7.37         | 2.45    | -6.78   | 11.49   | -0.36      | 0.04       | -5.12      | 1.78        | 2.31     |
| 2852   | 0           | 10          | -5         | 7.37         | 1.61    | -4.71   | 11.49   | -0.63      | -0.27      | -2.67      | 2.04        | 2.05     |
| 2836   | 0           | 10          | 0          | 7.36         | 1.30    | -3.77   | 11.49   | -0.87      | -0.07      | -1.35      | 2.11        | 1.98     |
| 2840   | 0           | 10          | 5          | 7.36         | 1.39    | -2.98   | 11.49   | -0.90      | 0.47       | -0.36      | 2.07        | 2.02     |
| 2844   | 0           | 10          | 10         | 7.36         | 1.81    | -2.07   | 11.49   | -1.05      | 1.41       | 0.51       | 1.97        | 2.12     |
| 2848   | 0           | 10          | 15         | 7.37         | 2.94    | -0.11   | 11.49   | -1.86      | 3.59       | 1.69       | 1.68        | 2.41     |
| 2849   | 0           | 10          | 15         | 7.36         | 2.96    | -0.10   | 11.49   | -1.83      | 3.59       | 1.67       | 1.67        | 2.42     |
| 2894 * | 0           | 20          | -15        | 7.36         | 4.22    | -9.14   | 11.49   | 0.50       | 0.98       | -8.40      | 1.46        | 2.44     |
| 2890   | 0           | 20          | -10        | 7.37         | 2.40    | -6.06   | 11.49   | -0.51      | -0.15      | -4.52      | 1.90        | 2.00     |
| 2886   | 0           | 20          | -5         | 7.36         | 1.65    | -4.71   | 11.49   | -0.83      | -0.31      | -2.77      | 2.15        | 1.75     |
| 2865   | 0           | 20          | 0          | 7.35         | 1.27    | -3.66   | 11.49   | -1.01      | -0.06      | -1.57      | 2.22        | 1.68     |
| 2869   | 0           | 20          | 5          | 7.36         | 1.32    | -2.91   | 11.49   | -1.14      | 0.29       | -0.75      | 2.14        | 1.76     |
| 2873   | 0           | 20          | 10         | 7.36         | 1.69    | -1.83   | 11.49   | -1.36      | 1.29       | 0.23       | 2.07        | 1.83     |
| 2877   | 0           | 20          | 15         | 7.36         | 2.68    | -0.19   | 11.49   | -1.84      | 2.85       | 1.38       | 1.91        | 1.99     |
| 3073   | 3           | -10         | -15        | 7.35         | 2.35    | -6.26   | 11.49   | -1.08      | -2.79      | -1.30      | 2.40        | 2.86     |
| 3069   | 3           | -10         | -10        | 7.34         | 1.65    | -4.68   | 11.49   | -0.84      | -4.19      | -1.04      | 2.55        | 2.71     |
| 3065   | 3           | -10         | -5         | 7.34         | 1.34    | -3.59   | 11.49   | -0.45      | -4.78      | -0.87      | 2.57        | 2.69     |
| 3048   | 3           | -10         | 0          | 7.34         | 1.25    | -2.86   | 11.49   | -0.01      | -4.77      | -0.93      | 2.58        | 2.68     |
| 3052   | 3           | -10         | 5          | 7.35         | 1.47    | -2.00   | 11.49   | 0.33       | -4.15      | -1.08      | 2.50        | 2.76     |
| 3057   | 3           | -10         | 10         | 7.35         | 2.07    | -0.54   | 11.49   | 0.27       | -2.81      | -1.51      | 2.30        | 2.96     |
| 3060   | 3           | -10         | 15         | 7.35         | 3.67    | 2.81    | 11.49   | -0.47      | -0.78      | -2.49      | 1.93        | 3.33     |
| 2968   | 3           | 0           | -15        | 7.36         | 2.68    | -6.94   | 11.49   | -1.74      | -3.92      | -1.65      | 2.19        | 3.13     |
| 2963   | 3           | 0           | -10        | 7.36         | 1.75    | -4.95   | 11.49   | -1.46      | -5.07      | -0.98      | 2.42        | 2.90     |
| 2959   | 3           | 0           | -5         | 7.36         | 1.42    | -3.82   | 11.49   | -0.99      | -5.34      | -0.80      | 2.48        | 2.84     |
| 2943   | 3           | 0           | 0          | 7.36         | 1.28    | -3.10   | 11.49   | -0.42      | -5.17      | -0.83      | 2.46        | 2.86     |
| 2947   | 3           | 0           | 5          | 7.36         | 1.45    | -2.32   | 11.49   | 0.06       | -4.58      | -0.94      | 2.40        | 2.92     |
| 2951   | 3           | 0           | 10         | 7.36         | 1.95    | -1.14   | 11.49   | 0.22       | -3.42      | -1.31      | 2.27        | 3.05     |
| 2955   | 3           | 0           | 15         | 7.36         | 3.20    | 1.36    | 11.49   | -0.17      | -1.43      | -2.26      | 2.00        | 3.32     |

\* Indicates model was close to heave stop

TABLE A1.221.2 - STABILITY DATA IN WIND AXES WITH AIR TARES

20 deg Deadrise, L/R = 0.234, Cv = 1.5

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 2985 | 3           | 10          | -15        | 7.36         | 2.75    | -7.01   | 11.49   | -1.95      | -4.20      | -1.61      | 2.19        | 3.07     |
| 2986 | 3           | 10          | -15        | 7.36         | 2.74    | -7.00   | 11.49   | -1.93      | -4.18      | -1.68      | 2.18        | 3.08     |
| 2981 | 3           | 10          | -10        | 7.36         | 1.80    | -4.94   | 11.49   | -1.75      | -4.97      | -1.07      | 2.41        | 2.85     |
| 2977 | 3           | 10          | -5         | 7.36         | 1.45    | -3.92   | 11.49   | -1.38      | -5.33      | -0.84      | 2.50        | 2.76     |
| 2973 | 3           | 10          | 0          | 7.37         | 1.31    | -3.05   | 11.49   | -0.82      | -5.31      | -0.78      | 2.53        | 2.73     |
| 2990 | 3           | 10          | 5          | 7.36         | 1.46    | -2.43   | 11.49   | -0.41      | -4.94      | -0.98      | 2.46        | 2.80     |
| 2994 | 3           | 10          | 10         | 7.36         | 1.81    | -1.28   | 11.49   | 0.06       | -3.75      | -1.39      | 2.39        | 2.87     |
| 2998 | 3           | 10          | 15         | 7.36         | 2.70    | 0.30    | 11.49   | -0.09      | -1.90      | -1.96      | 2.21        | 3.05     |
| 3043 | 3           | 20          | -15        | 7.34         | 2.73    | -6.62   | 11.49   | -1.44      | -3.90      | -1.95      | 2.20        | 2.87     |
| 3038 | 3           | 20          | -10        | 7.34         | 1.80    | -5.09   | 11.49   | -1.69      | -4.77      | -1.12      | 2.46        | 2.61     |
| 3034 | 3           | 20          | -5         | 7.34         | 1.46    | -3.63   | 11.49   | -1.39      | -5.08      | -0.85      | 2.59        | 2.48     |
| 3004 | 3           | 20          | 0          | 7.36         | 1.33    | -2.95   | 11.49   | -1.08      | -5.05      | -0.88      | 2.57        | 2.50     |
| 3008 | 3           | 20          | 5          | 7.36         | 1.46    | -2.11   | 11.49   | -0.69      | -4.88      | -1.13      | 2.55        | 2.52     |
| 3025 | 3           | 20          | 10         | 7.34         | 1.73    | -1.01   | 11.49   | -0.37      | -4.16      | -1.56      | 2.50        | 2.57     |
| 3030 | 3           | 20          | 15         | 7.33         | 2.41    | 0.11    | 11.49   | -0.26      | -2.65      | -1.86      | 2.46        | 2.61     |
| 3199 | 6           | -10         | -15        | 7.35         | 2.24    | -5.75   | 11.49   | -2.14      | -7.46      | 1.89       | 3.15        | 3.27     |
| 3195 | 6           | -10         | -10        | 7.35         | 1.79    | -4.69   | 11.49   | -1.56      | -8.28      | 0.88       | 3.20        | 3.22     |
| 3191 | 6           | -10         | -5         | 7.36         | 1.57    | -3.68   | 11.49   | -0.87      | -8.72      | -0.12      | 3.20        | 3.22     |
| 3187 | 6           | -10         | 0          | 7.36         | 1.52    | -2.58   | 11.49   | -0.12      | -8.71      | -1.08      | 3.16        | 3.26     |
| 3203 | 6           | -10         | 5          | 7.35         | 1.85    | -1.48   | 11.49   | 0.59       | -8.20      | -2.06      | 3.05        | 3.37     |
| 3207 | 6           | -10         | 10         | 7.35         | 2.44    | 0.12    | 11.49   | 0.90       | -7.26      | -3.60      | 2.89        | 3.53     |
| 3211 | 6           | -10         | 15         | 7.35         | 3.78    | 3.18    | 11.49   | 0.64       | -5.47      | -6.20      | 2.66        | 3.76     |
| 3212 | 6           | -10         | 15         | 7.36         | 3.96    | 3.42    | 11.49   | 0.69       | -5.53      | -6.31      | 2.59        | 3.83     |
| 3107 | 6           | 0           | -15        | 7.34         | 2.30    | -5.60   | 11.49   | -2.70      | -8.12      | 1.52       | 3.05        | 3.43     |
| 3102 | 6           | 0           | -10        | 7.34         | 1.82    | -4.52   | 11.49   | -2.05      | -8.84      | 0.68       | 3.15        | 3.33     |
| 3098 | 6           | 0           | -5         | 7.34         | 1.61    | -3.53   | 11.49   | -1.23      | -9.02      | -0.14      | 3.23        | 3.25     |
| 3082 | 6           | 0           | 0          | 7.34         | 1.49    | -2.59   | 11.49   | -0.40      | -8.92      | -0.98      | 3.19        | 3.29     |
| 3085 | 6           | 0           | 5          | 7.34         | 1.72    | -1.66   | 11.49   | 0.36       | -8.49      | -1.86      | 3.12        | 3.36     |
| 3090 | 6           | 0           | 10         | 7.34         | 2.27    | -0.35   | 11.49   | 0.96       | -7.64      | -3.10      | 3.00        | 3.48     |
| 3094 | 6           | 0           | 15         | 7.34         | 3.24    | 1.63    | 11.49   | 0.99       | -6.30      | -5.07      | 2.78        | 3.70     |
| 3151 | 6           | 10          | -15        | 7.33         | 2.42    | -5.73   | 11.49   | -2.83      | -8.09      | 1.61       | 2.96        | 3.46     |
| 3147 | 6           | 10          | -10        | 7.33         | 1.80    | -4.31   | 11.49   | -2.29      | -8.72      | 0.63       | 3.12        | 3.30     |
| 3143 | 6           | 10          | -5         | 7.33         | 1.58    | -3.28   | 11.49   | -1.50      | -9.03      | -0.17      | 3.20        | 3.22     |
| 3126 | 6           | 10          | 0          | 7.32         | 1.49    | -2.29   | 11.49   | -0.73      | -8.91      | -0.99      | 3.18        | 3.24     |
| 3130 | 6           | 10          | 5          | 7.32         | 1.70    | -1.28   | 11.49   | -0.04      | -8.44      | -2.18      | 3.15        | 3.27     |
| 3135 | 6           | 10          | 10         | 7.33         | 2.16    | -0.33   | 11.49   | 0.63       | -7.60      | -3.09      | 3.10        | 3.32     |
| 3139 | 6           | 10          | 15         | 7.33         | 2.98    | 1.00    | 11.49   | 1.06       | -6.53      | -4.44      | 3.01        | 3.41     |
| 3169 | 6           | 20          | -15        | 7.34         | 2.69    | -6.45   | 11.49   | -2.70      | -8.00      | 1.96       | 2.90        | 3.33     |
| 3165 | 6           | 20          | -10        | 7.34         | 1.95    | -4.51   | 11.49   | -2.38      | -8.66      | 0.71       | 3.04        | 3.19     |
| 3161 | 6           | 20          | -5         | 7.33         | 1.68    | -3.25   | 11.49   | -1.70      | -8.91      | -0.17      | 3.14        | 3.09     |
| 3157 | 6           | 20          | 0          | 7.34         | 1.63    | -2.23   | 11.49   | -1.07      | -8.87      | -1.06      | 3.25        | 2.98     |
| 3173 | 6           | 20          | 5          | 7.34         | 2.00    | -0.90   | 11.49   | -0.34      | -8.69      | -2.27      | 3.21        | 3.02     |
| 3177 | 6           | 20          | 10         | 7.34         | 2.37    | 0.14    | 11.49   | 0.32       | -7.70      | -3.30      | 3.24        | 2.99     |
| 3181 | 6           | 20          | 15         | 7.34         | 2.94    | 1.00    | 11.49   | 0.99       | -7.06      | -4.14      | 3.28        | 2.95     |

\* Indicates model was close to heave stop

TABLE A1.223.1 - STABILITY DATA IN WIND AXES WITH AIR TARES

20 deg Deadrise, L/R = 0.234, Cv = 3

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |      |
|------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|------|
| 2937 | *           | 0           | -10        | -15          | 14.75   | 14.06   | -35.27  | 11.49      | -0.15      | 6.18       | -23.12      | 1.46     | 2.63 |
| 2939 | *           | 0           | -10        | -15          | 14.75   | 13.88   | -35.43  | 11.49      | -0.43      | 4.51       | -23.29      | 1.46     | 2.63 |
| 2932 |             | 0           | -10        | -10          | 14.74   | 7.39    | -24.32  | 11.49      | -0.22      | 7.40       | -14.53      | 1.96     | 2.13 |
| 2928 |             | 0           | -10        | -5           | 14.74   | 4.84    | -18.27  | 11.49      | -1.19      | 5.82       | -7.40       | 2.17     | 1.92 |
| 2914 |             | 0           | -10        | 0            | 14.73   | 4.08    | -14.27  | 11.49      | -1.73      | 3.82       | -4.07       | 2.16     | 1.93 |
| 2918 |             | 0           | -10        | 5            | 14.75   | 5.28    | -9.47   | 11.49      | -2.74      | 6.54       | -4.57       | 1.83     | 2.26 |
| 2922 | *           | 0           | -10        | 10           | 14.75   | 9.16    | 1.21    | 11.49      | -5.09      | 11.28      | -4.36       | 1.37     | 2.72 |
| 2833 | *           | 0           | 0          | -15          | 14.74   | 14.37   | -39.70  | 11.49      | -0.28      | 2.73       | -28.06      | 1.53     | 2.62 |
| 2828 |             | 0           | 0          | -10          | 14.75   | 8.10    | -25.62  | 11.49      | -0.88      | 1.76       | -14.82      | 1.75     | 2.40 |
| 2823 |             | 0           | 0          | -5           | 14.74   | 4.82    | -17.93  | 11.49      | -1.41      | 3.20       | -7.42       | 2.19     | 1.96 |
| 2800 |             | 0           | 0          | 0            | 14.75   | 4.07    | -14.29  | 11.49      | -1.70      | 4.27       | -4.15       | 2.16     | 1.99 |
| 2804 |             | 0           | 0          | 5            | 14.73   | 4.80    | -11.06  | 11.49      | -2.47      | 7.46       | -2.47       | 1.99     | 2.16 |
| 2818 | *           | 0           | 0          | 10           | 14.73   | 8.75    | -0.96   | 11.49      | -4.75      | 12.55      | -4.92       | 1.43     | 2.72 |
| 2857 |             | 0           | 10         | -10          | 14.74   | 8.53    | -28.98  | 11.49      | -1.28      | -1.19      | -18.53      | 1.76     | 2.33 |
| 2853 |             | 0           | 10         | -5           | 14.76   | 5.06    | -18.83  | 11.49      | -1.90      | 0.01       | -8.04       | 2.18     | 1.91 |
| 2837 |             | 0           | 10         | 0            | 14.75   | 4.02    | -14.38  | 11.49      | -2.15      | 1.68       | -4.21       | 2.25     | 1.84 |
| 2841 |             | 0           | 10         | 5            | 14.77   | 4.40    | -11.38  | 11.49      | -2.34      | 5.59       | -2.05       | 2.21     | 1.88 |
| 2845 |             | 0           | 10         | 10           | 14.77   | 6.32    | -6.61   | 11.49      | -3.17      | 8.87       | -1.14       | 2.14     | 1.95 |
| 2850 | *           | 0           | 10         | 15           | 14.76   | 12.62   | 6.79    | 11.49      | -5.85      | 14.60      | -2.08       | 1.39     | 2.70 |
| 2896 | *           | 0           | 20         | -15          | 14.75   | 16.43   | -39.05  | 11.49      | 5.33       | 22.61      | -25.46      | 1.52     | 2.38 |
| 2892 |             | 0           | 20         | -10          | 14.74   | 8.30    | -25.02  | 11.49      | 0.67       | 11.39      | -12.37      | 1.98     | 1.92 |
| 2887 |             | 0           | 20         | -5           | 14.74   | 4.99    | -19.31  | 11.49      | -1.94      | 0.53       | -8.30       | 2.26     | 1.64 |
| 2866 |             | 0           | 20         | 0            | 14.73   | 3.90    | -14.55  | 11.49      | -2.51      | 0.38       | -4.13       | 2.35     | 1.55 |
| 2870 |             | 0           | 20         | 5            | 14.75   | 4.06    | -11.15  | 11.49      | -2.58      | 3.02       | -2.62       | 2.35     | 1.55 |
| 2874 |             | 0           | 20         | 10           | 14.74   | 4.43    | -8.60   | 11.49      | -2.61      | 4.09       | -2.06       | 2.66     | 1.24 |
| 2878 |             | 0           | 20         | 15           | 14.76   | 5.13    | -6.42   | 11.49      | -2.65      | 2.66       | -2.64       | 3.00     | 0.90 |
| 2883 |             | 0           | 20         | 15           | 14.76   | 5.11    | -6.57   | 11.49      | -2.81      | 2.88       | -2.53       | 2.99     | 0.91 |
| 3074 |             | 3           | -10        | -15          | 14.71   | 3.68    | -18.38  | 11.49      | -3.24      | -2.87      | 0.49        | 3.32     | 1.94 |
| 3070 |             | 3           | -10        | -10          | 14.72   | 2.92    | -16.55  | 11.49      | -2.48      | -2.43      | -0.17       | 3.23     | 2.03 |
| 3066 |             | 3           | -10        | -5           | 14.72   | 2.56    | -14.76  | 11.49      | -1.85      | -1.88      | -0.61       | 3.12     | 2.14 |
| 3049 |             | 3           | -10        | 0            | 14.73   | 2.66    | -11.98  | 11.49      | -1.54      | -2.06      | -2.30       | 2.98     | 2.28 |
| 3053 |             | 3           | -10        | 5            | 14.72   | 3.73    | -8.35   | 11.49      | -1.57      | -0.41      | -4.54       | 2.77     | 2.49 |
| 3054 |             | 3           | -10        | 5            | 14.73   | 3.71    | -8.33   | 11.49      | -1.57      | -0.47      | -4.52       | 2.77     | 2.49 |
| 3058 |             | 3           | -10        | 10           | 14.71   | 7.00    | 0.59    | 11.49      | -2.98      | 4.55       | -9.24       | 2.30     | 2.96 |
| 3062 | *           | 3           | -10        | 15           | 14.71   | 15.18   | 18.39   | 11.49      | -7.29      | 13.73      | -11.96      | 1.42     | 3.84 |
| 2969 |             | 3           | 0          | -15          | 14.76   | 8.01    | -26.14  | 11.49      | -2.55      | 2.68       | -3.60       | 2.38     | 2.94 |
| 2964 |             | 3           | 0          | -10          | 14.75   | 3.89    | -17.81  | 11.49      | -3.13      | -1.99      | -1.98       | 2.81     | 2.51 |
| 2960 |             | 3           | 0          | -5           | 14.75   | 2.82    | -14.52  | 11.49      | -2.69      | -3.70      | -1.47       | 2.95     | 2.37 |
| 2944 |             | 3           | 0          | 0            | 14.76   | 2.62    | -12.59  | 11.49      | -2.09      | -3.60      | -2.05       | 2.92     | 2.40 |
| 2948 |             | 3           | 0          | 5            | 14.73   | 3.12    | -9.90   | 11.49      | -1.55      | -2.39      | -3.35       | 2.88     | 2.44 |
| 2953 |             | 3           | 0          | 10           | 14.78   | 4.89    | -5.60   | 11.49      | -1.67      | 0.62       | -6.26       | 2.69     | 2.63 |
| 2956 |             | 3           | 0          | 15           | 14.74   | 10.42   | 5.65    | 11.49      | -4.26      | 8.51       | -11.38      | 2.15     | 3.17 |

\* Indicates model was close to heave stop

TABLE A1.223.2 - STABILITY DATA IN WIND AXES WITH AIR TARES

20 deg Deadrise, L/R = 0.234, Cv = 3

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 2987 | 3           | 10          | -15        | 14.75        | 4.85    | -20.29  | 11.49   | -2.12      | 4.19       | 1.50       | 2.95        | 2.31     |
| 2982 | 3           | 10          | -10        | 14.75        | 4.40    | -18.21  | 11.49   | -3.31      | -2.41      | -1.36      | 2.73        | 2.53     |
| 2978 | 3           | 10          | -5         | 14.76        | 2.88    | -14.10  | 11.49   | -3.19      | -4.15      | -1.66      | 2.95        | 2.31     |
| 2974 | 3           | 10          | 0          | 14.75        | 2.51    | -12.20  | 11.49   | -2.47      | -4.35      | -2.20      | 3.10        | 2.16     |
| 2991 | 3           | 10          | 5          | 14.76        | 2.50    | -10.56  | 11.49   | -1.62      | -5.01      | -2.79      | 3.25        | 2.01     |
| 2995 | 3           | 10          | 10         | 14.74        | 3.12    | -8.57   | 11.49   | -0.54      | -5.68      | -4.04      | 3.34        | 1.92     |
| 2999 | 3           | 10          | 15         | 14.76        | 4.26    | -6.25   | 11.49   | 0.54       | -5.78      | -5.84      | 3.36        | 1.90     |
| 3044 | 3           | 20          | -15        | 14.72        | 6.37    | -23.33  | 11.49   | -0.66      | 4.28       | 0.89       | 2.76        | 2.31     |
| 3039 | 3           | 20          | -10        | 14.71        | 4.19    | -18.49  | 11.49   | -2.53      | 0.41       | -0.10      | 2.80        | 2.27     |
| 3035 | 3           | 20          | -5         | 14.72        | 2.99    | -13.86  | 11.49   | -3.23      | -4.33      | -0.89      | 3.03        | 2.04     |
| 3005 | 3           | 20          | 0          | 14.74        | 2.56    | -11.11  | 11.49   | -2.80      | -4.87      | -2.64      | 3.12        | 1.95     |
| 3009 | 3           | 20          | 5          | 14.76        | 2.72    | -9.51   | 11.49   | -1.95      | -6.30      | -3.96      | 3.43        | 1.64     |
| 3026 | 3           | 20          | 10         | 14.68        | 2.96    | -8.39   | 11.49   | -0.99      | -8.17      | -5.34      | 3.70        | 1.37     |
| 3031 | 3           | 20          | 15         | 14.69        | 3.55    | -7.36   | 11.49   | 0.30       | -10.28     | -7.05      | 3.92        | 1.15     |
| 3200 | 6           | -10         | -15        | 14.75        | 2.55    | -16.40  | 11.49   | -5.27      | -12.50     | 3.75       | 4.65        | 1.77     |
| 3196 | 6           | -10         | -10        | 14.73        | 2.26    | -15.44  | 11.49   | -3.82      | -11.42     | 2.27       | 4.48        | 1.94     |
| 3192 | 6           | -10         | -5         | 14.72        | 1.97    | -14.38  | 11.49   | -2.48      | -9.83      | 0.92       | 4.27        | 2.15     |
| 3188 | 6           | -10         | 0          | 14.75        | 2.34    | -12.03  | 11.49   | -1.55      | -8.76      | -2.00      | 4.05        | 2.37     |
| 3204 | 6           | -10         | 5          | 14.73        | 3.20    | -8.51   | 11.49   | -1.12      | -7.40      | -6.03      | 3.83        | 2.59     |
| 3208 | 6           | -10         | 10         | 14.73        | 5.04    | -2.84   | 11.49   | -1.37      | -4.74      | -11.87     | 3.47        | 2.95     |
| 3213 | 6           | -10         | 15         | 14.74        | 11.03   | 11.09   | 11.49   | -4.25      | 2.36       | -21.84     | 2.64        | 3.78     |
| 3108 | 6           | 0           | -15        | 14.73        | 2.94    | -16.18  | 11.49   | -5.27      | -9.76      | 2.47       | 4.26        | 2.22     |
| 3103 | 6           | 0           | -10        | 14.49        | 2.12    | -14.28  | 11.49   | -4.14      | -10.40     | 1.00       | 4.36        | 2.12     |
| 3104 | 6           | 0           | -10        | 14.73        | 2.15    | -14.74  | 11.49   | -4.26      | -10.70     | 1.05       | 4.39        | 2.09     |
| 3099 | 6           | 0           | -5         | 14.71        | 1.93    | -13.40  | 11.49   | -3.02      | -11.15     | -0.18      | 4.44        | 2.04     |
| 3081 | 6           | 0           | 0          | 14.70        | 1.97    | -12.20  | 11.49   | -1.82      | -11.10     | -1.41      | 4.32        | 2.16     |
| 3086 | 6           | 0           | 5          | 14.70        | 2.34    | -10.53  | 11.49   | -0.64      | -10.55     | -3.24      | 4.29        | 2.19     |
| 3091 | 6           | 0           | 10         | 14.71        | 3.34    | -8.04   | 11.49   | 0.24       | -9.44      | -6.22      | 4.20        | 2.28     |
| 3095 | 6           | 0           | 15         | 14.73        | 5.67    | -3.06   | 11.49   | 0.08       | -6.37      | -11.84     | 3.84        | 2.64     |
| 3152 | 6           | 10          | -15        | 14.72        | 3.93    | -17.77  | 11.49   | -4.54      | -6.90      | 3.66       | 3.76        | 2.66     |
| 3148 | 6           | 10          | -10        | 14.71        | 2.56    | -14.23  | 11.49   | -4.36      | -8.71      | 0.40       | 4.05        | 2.37     |
| 3144 | 6           | 10          | -5         | 14.71        | 1.99    | -12.34  | 11.49   | -3.47      | -10.65     | -1.44      | 4.31        | 2.11     |
| 3127 | 6           | 10          | 0          | 14.68        | 1.94    | -11.05  | 11.49   | -2.28      | -12.47     | -2.83      | 4.46        | 1.96     |
| 3131 | 6           | 10          | 5          | 14.69        | 2.14    | -10.05  | 11.49   | -0.96      | -13.96     | -4.55      | 4.67        | 1.75     |
| 3136 | 6           | 10          | 10         | 14.69        | 2.71    | -8.87   | 11.49   | 0.71       | -14.88     | -6.23      | 4.77        | 1.65     |
| 3140 | 6           | 10          | 15         | 14.70        | 3.33    | -8.14   | 11.49   | 2.16       | -15.34     | -7.71      | 4.92        | 1.50     |
| 3170 | 6           | 20          | -15        | 14.73        | 5.44    | -21.81  | 11.49   | -3.72      | -6.22      | 5.78       | 3.37        | 2.86     |
| 3166 | 6           | 20          | -10        | 14.71        | 3.07    | -15.09  | 11.49   | -4.19      | -7.94      | 1.15       | 3.82        | 2.41     |
| 3162 | 6           | 20          | -5         | 14.70        | 2.35    | -11.56  | 11.49   | -3.82      | -9.33      | -2.21      | 4.07        | 2.16     |
| 3158 | 6           | 20          | 0          | 14.70        | 2.37    | -9.28   | 11.49   | -3.04      | -11.09     | -4.78      | 4.31        | 1.92     |
| 3174 | 6           | 20          | 5          | 14.71        | 2.55    | -9.29   | 11.49   | -1.58      | -13.75     | -5.37      | 4.74        | 1.49     |
| 3178 | 6           | 20          | 10         | 14.73        | 2.81    | -9.27   | 11.49   | -0.17      | -14.91     | -5.99      | 5.01        | 1.22     |
| 3182 | 6           | 20          | 15         | 14.73        | 3.43    | -8.72   | 11.49   | 1.39       | -16.02     | -7.17      | 5.13        | 1.10     |

\* Indicates model was close to heave stop

TABLE A1.224.1 - STABILITY DATA IN WIND AXES WITH AIR TARES

20 deg Deadrise, L/R = 0.234, Cv = 4

| RUN    | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|--------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 2933   | 0           | -10         | -10        | 19.72        | 12.20   | -42.16  | 11.49   | -0.38      | 16.76      | -27.08     | 1.96        | 2.13     |
| 2929   | 0           | -10         | -5         | 19.73        | 7.71    | -32.40  | 11.49   | -2.26      | 14.42      | -13.26     | 2.15        | 1.94     |
| 2915   | 0           | -10         | 0          | 19.68        | 6.16    | -26.45  | 11.49   | -3.58      | 10.61      | -5.31      | 2.18        | 1.91     |
| 2919   | 0           | -10         | 5          | 19.73        | 9.34    | -16.06  | 11.49   | -5.16      | 12.61      | -10.17     | 1.68        | 2.41     |
| 2829   | 0           | 0           | -10        | 19.69        | 13.45   | -43.71  | 11.49   | -1.28      | 6.86       | -28.77     | 1.75        | 2.40     |
| 2824   | 0           | 0           | -5         | 19.66        | 7.64    | -31.63  | 11.49   | -2.44      | 9.30       | -13.43     | 2.18        | 1.97     |
| 2801   | 0           | 0           | 0          | 19.68        | 6.14    | -26.12  | 11.49   | -3.27      | 10.56      | -6.66      | 2.20        | 1.95     |
| 2805   | 0           | 0           | 5          | 19.67        | 7.68    | -19.41  | 11.49   | -4.57      | 13.82      | -5.03      | 1.97        | 2.18     |
| 2820 * | 0           | 0           | 10         | 19.67        | 13.68   | -3.56   | 11.49   | -7.86      | 21.04      | -7.86      | 1.45        | 2.70     |
| 2858   | 0           | 10          | -10        | 19.67        | 13.42   | -48.52  | 11.49   | -1.47      | 1.62       | -34.63     | 1.83        | 2.26     |
| 2854   | 0           | 10          | -5         | 19.71        | 8.50    | -32.56  | 11.49   | -3.05      | 2.60       | -15.13     | 2.15        | 1.94     |
| 2838   | 0           | 10          | 0          | 19.68        | 6.14    | -25.72  | 11.49   | -3.48      | 6.57       | -7.69      | 2.24        | 1.85     |
| 2842   | 0           | 10          | 5          | 19.68        | 6.98    | -20.32  | 11.49   | -3.95      | 10.65      | -4.11      | 2.29        | 1.80     |
| 2846   | 0           | 10          | 10         | 19.68        | 7.80    | -15.95  | 11.49   | -4.40      | 11.42      | -1.66      | 2.62        | 1.47     |
| 2893   | 0           | 20          | -10        | 19.69        | 13.53   | -42.33  | 11.49   | 1.51       | 23.56      | -23.68     | 2.02        | 1.88     |
| 2888   | 0           | 20          | -5         | 19.63        | 8.10    | -33.57  | 11.49   | -2.96      | 3.33       | -15.31     | 2.23        | 1.67     |
| 2867   | 0           | 20          | 0          | 19.63        | 6.32    | -25.18  | 11.49   | -3.91      | 2.79       | -7.49      | 2.34        | 1.56     |
| 2871   | 0           | 20          | 5          | 19.69        | 5.86    | -20.62  | 11.49   | -4.01      | 6.10       | -4.93      | 2.53        | 1.37     |
| 2875   | 0           | 20          | 10         | 19.68        | 5.43    | -18.08  | 11.49   | -4.55      | 3.61       | -4.09      | 3.12        | 0.78     |
| 2879   | 0           | 20          | 15         | 19.66        | 6.09    | -15.84  | 11.49   | -4.60      | 0.68       | -4.75      | 3.42        | 0.48     |
| 2884   | 0           | 20          | 15         | 19.68        | 6.01    | -15.98  | 11.49   | -4.69      | 0.88       | -4.62      | 3.42        | 0.48     |
| 3075   | 3           | -10         | -15        | 19.62        | 4.85    | -31.01  | 11.49   | -6.06      | -5.92      | 2.48       | 3.52        | 1.74     |
| 3071   | 3           | -10         | -10        | 19.67        | 3.61    | -28.51  | 11.49   | -4.52      | -3.56      | 0.40       | 3.41        | 1.85     |
| 3067   | 3           | -10         | -5         | 19.69        | 3.31    | -25.71  | 11.49   | -3.40      | -0.92      | -0.78      | 3.28        | 1.98     |
| 3050   | 3           | -10         | 0          | 19.67        | 3.67    | -21.80  | 11.49   | -3.05      | 0.56       | -3.21      | 3.09        | 2.17     |
| 3055   | 3           | -10         | 5          | 19.67        | 5.73    | -14.05  | 11.49   | -3.47      | 3.82       | -8.93      | 2.85        | 2.41     |
| 3059   | 3           | -10         | 10         | 19.66        | 11.36   | 1.19    | 11.49   | -6.39      | 13.26      | -17.00     | 2.25        | 3.01     |
| 2970   | 3           | 0           | -15        | 19.67        | 12.33   | -43.82  | 11.49   | -3.64      | 8.89       | -7.96      | 2.43        | 2.89     |
| 2965   | 3           | 0           | -10        | 19.64        | 5.40    | -29.58  | 11.49   | -5.08      | 0.03       | -3.69      | 2.91        | 2.41     |
| 2961   | 3           | 0           | -5         | 19.65        | 3.57    | -25.38  | 11.49   | -4.37      | -2.88      | -2.02      | 3.08        | 2.24     |
| 2945   | 3           | 0           | 0          | 19.58        | 3.41    | -22.19  | 11.49   | -3.67      | -3.26      | -2.72      | 3.08        | 2.24     |
| 2949   | 3           | 0           | 5          | 19.62        | 4.12    | -18.16  | 11.49   | -2.93      | -1.81      | -5.02      | 3.05        | 2.27     |
| 2952   | 3           | 0           | 10         | 19.71        | 6.57    | -12.11  | 11.49   | -2.82      | 1.69       | -9.33      | 2.91        | 2.41     |
| 2957   | 3           | 0           | 15         | 19.62        | 15.16   | 5.31    | 11.49   | -7.22      | 15.47      | -17.54     | 2.31        | 3.01     |

\* Indicates model was close to heave stop

TABLE A1.224.2 - STABILITY DATA IN WIND AXES WITH AIR TARES

20 deg Deadrise, L/R = 0.234, Cv = 4

| RUN  | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps | X<br>lb | Y<br>lb | Z<br>lb | K<br>lb-ft | M<br>lb-ft | N<br>lb-ft | Heave<br>in | TD<br>in |
|------|-------------|-------------|------------|--------------|---------|---------|---------|------------|------------|------------|-------------|----------|
| 2988 | 3           | 10          | -15        | 19.69        | 6.76    | -34.83  | 11.49   | -4.79      | 2.22       | 3.04       | 3.17        | 2.09     |
| 2983 | 3           | 10          | -10        | 19.69        | 6.80    | -31.06  | 11.49   | -4.97      | 0.92       | -3.63      | 2.73        | 2.53     |
| 2979 | 3           | 10          | -5         | 19.60        | 3.88    | -24.19  | 11.49   | -5.10      | -2.96      | -3.13      | 3.06        | 2.20     |
| 2975 | 3           | 10          | 0          | 19.56        | 3.15    | -21.48  | 11.49   | -4.12      | -6.00      | -3.24      | 3.33        | 1.93     |
| 2992 | 3           | 10          | 5          | 19.68        | 3.02    | -19.30  | 11.49   | -2.62      | -10.17     | -5.00      | 3.60        | 1.66     |
| 2996 | 3           | 10          | 10         | 19.67        | 3.81    | -16.67  | 11.49   | -0.74      | -12.75     | -7.84      | 3.73        | 1.53     |
| 3000 | 3           | 10          | 15         | 19.65        | 4.76    | -14.70  | 11.49   | 1.28       | -15.32     | -10.69     | 3.84        | 1.42     |
| 3045 | 3           | 20          | -15        | 19.67        | 8.40    | -37.62  | 11.49   | -2.00      | 5.48       | 2.88       | 3.00        | 2.07     |
| 3040 | 3           | 20          | -10        | 19.75        | 6.10    | -31.76  | 11.49   | -3.46      | 6.05       | -0.81      | 2.86        | 2.21     |
| 3041 | 3           | 20          | -10        | 19.64        | 6.12    | -31.41  | 11.49   | -3.47      | 5.93       | -0.68      | 2.86        | 2.21     |
| 3036 | 3           | 20          | -5         | 19.71        | 4.49    | -23.20  | 11.49   | -5.12      | -2.76      | -3.24      | 3.06        | 2.01     |
| 3006 | 3           | 20          | 0          | 19.66        | 3.35    | -20.01  | 11.49   | -4.64      | -6.37      | -3.88      | 3.36        | 1.71     |
| 3010 | 3           | 20          | 5          | 19.65        | 2.90    | -19.05  | 11.49   | -3.52      | -10.42     | -5.37      | 3.83        | 1.24     |
| 3027 | 3           | 20          | 10         | 19.52        | 3.05    | -17.85  | 11.49   | -2.11      | -12.94     | -6.89      | 4.06        | 1.01     |
| 3028 | 3           | 20          | 10         | 19.66        | 2.93    | -18.33  | 11.49   | -2.17      | -13.01     | -6.74      | 4.09        | 0.98     |
| 3032 | 3           | 20          | 15         | 19.67        | 3.42    | -17.55  | 11.49   | -0.52      | -15.11     | -8.27      | 4.23        | 0.84     |
| 3201 | 6           | -10         | -15        | 19.64        | 2.76    | -27.29  | 11.49   | -8.29      | -18.13     | 4.91       | 5.05        | 1.37     |
| 3197 | 6           | -10         | -10        | 19.65        | 2.54    | -25.99  | 11.49   | -6.35      | -17.21     | 2.95       | 4.89        | 1.53     |
| 3193 | 6           | -10         | -5         | 19.63        | 2.09    | -24.41  | 11.49   | -4.40      | -14.89     | 0.83       | 4.75        | 1.67     |
| 3189 | 6           | -10         | 0          | 19.64        | 2.62    | -21.97  | 11.49   | -2.95      | -11.60     | -2.38      | 4.47        | 1.95     |
| 3205 | 6           | -10         | 5          | 19.65        | 3.81    | -17.11  | 11.49   | -2.28      | -9.31      | -8.47      | 4.25        | 2.17     |
| 3209 | 6           | -10         | 10         | 19.67        | 6.11    | -9.64   | 11.49   | -2.87      | -5.50      | -17.39     | 4.00        | 2.42     |
| 3109 | 6           | 0           | -15        | 19.63        | 3.06    | -27.09  | 11.49   | -8.65      | -15.62     | 3.83       | 4.83        | 1.65     |
| 3105 | 6           | 0           | -10        | 19.62        | 2.24    | -25.37  | 11.49   | -7.03      | -16.75     | 1.81       | 4.90        | 1.58     |
| 3100 | 6           | 0           | -5         | 19.63        | 1.94    | -23.48  | 11.49   | -5.21      | -17.27     | -0.56      | 4.93        | 1.55     |
| 3083 | 6           | 0           | 0          | 19.62        | 1.94    | -21.57  | 11.49   | -3.36      | -17.15     | -2.83      | 4.92        | 1.56     |
| 3087 | 6           | 0           | 5          | 19.63        | 2.44    | -19.90  | 11.49   | -1.57      | -16.72     | -4.93      | 4.86        | 1.62     |
| 3092 | 6           | 0           | 10         | 19.62        | 3.44    | -17.67  | 11.49   | 0.11       | -15.41     | -7.78      | 4.76        | 1.72     |
| 3096 | 6           | 0           | 15         | 19.62        | 2.86    | -18.95  | 11.49   | 2.36       | -20.17     | -7.31      | 5.39        | 1.09     |
| 3153 | 6           | 10          | -15        | 19.63        | 4.76    | -29.01  | 11.49   | -7.23      | -8.95      | 5.22       | 4.19        | 2.23     |
| 3149 | 6           | 10          | -10        | 19.59        | 2.65    | -24.43  | 11.49   | -6.97      | -12.23     | 0.30       | 4.56        | 1.86     |
| 3145 | 6           | 10          | -5         | 19.57        | 2.10    | -22.55  | 11.49   | -5.74      | -16.06     | -1.74      | 4.85        | 1.57     |
| 3128 | 6           | 10          | 0          | 19.59        | 1.86    | -21.01  | 11.49   | -4.17      | -18.05     | -3.75      | 4.97        | 1.45     |
| 3132 | 6           | 10          | 5          | 19.59        | 2.26    | -19.67  | 11.49   | -2.46      | -19.17     | -5.90      | 5.05        | 1.37     |
| 3137 | 6           | 10          | 10         | 19.61        | 2.65    | -18.70  | 11.49   | -0.73      | -18.93     | -7.41      | 5.14        | 1.28     |
| 3141 | 6           | 10          | 15         | 19.59        | 3.56    | -17.50  | 11.49   | 1.38       | -20.32     | -9.49      | 5.18        | 1.24     |
| 3171 | 6           | 20          | -15        | 19.59        | 7.67    | -36.88  | 11.49   | -5.10      | -5.62      | 9.85       | 3.55        | 2.68     |
| 3167 | 6           | 20          | -10        | 19.61        | 3.67    | -25.62  | 11.49   | -6.46      | -9.48      | 1.70       | 4.20        | 2.03     |
| 3163 | 6           | 20          | -5         | 19.58        | 2.59    | -20.81  | 11.49   | -6.16      | -12.25     | -3.68      | 4.56        | 1.67     |
| 3159 | 6           | 20          | 0          | 19.60        | 2.28    | -19.17  | 11.49   | -5.08      | -15.30     | -5.98      | 4.89        | 1.34     |
| 3175 | 6           | 20          | 5          | 19.61        | 2.15    | -20.41  | 11.49   | -3.24      | -18.12     | -4.81      | 5.28        | 0.95     |
| 3179 | 6           | 20          | 10         | 19.62        | 2.60    | -19.86  | 11.49   | -1.41      | -19.69     | -5.83      | 5.40        | 0.83     |
| 3183 | 6           | 20          | 15         | 19.65        | 3.16    | -19.47  | 11.49   | 0.51       | -20.30     | -6.75      | 5.47        | 0.76     |

\* Indicates model was close to heave stop

TABLE A2.101 - RUDDER DATA IN WIND AXES WITH AIR TARES

Trim = 3 deg Roll = Yaw = 0 deg

10 deg Deadrise, L/R = 0.000, Cv = 1.5

| RUN  | Rudder deg | Speed fps | X lb | Y lb  | Z lb  | K lb-ft | M lb-ft | N lb-ft | Heave in | TD in |
|------|------------|-----------|------|-------|-------|---------|---------|---------|----------|-------|
| 2243 | -20        | 7.37      | 1.51 | -0.03 | 11.49 | -1.82   | -5.61   | 1.013   | 3.05     | 2.27  |
| 2224 | -15        | 7.37      | 1.57 | -0.42 | 11.49 | -0.95   | -4.89   | 1.457   | 2.97     | 2.35  |
| 2237 | -10        | 7.36      | 1.34 | -0.35 | 11.49 | -0.64   | -4.88   | 1.028   | 2.96     | 2.36  |
| 2240 | -5         | 7.38      | 1.24 | -0.17 | 11.49 | -0.30   | -4.91   | 0.523   | 2.95     | 2.37  |
| 2218 | 0          | 7.36      | 1.16 | 0.13  | 11.49 | 0.03    | -5.10   | -0.161  | 2.95     | 2.37  |
| 2221 | 15         | 7.38      | 1.61 | 0.34  | 11.49 | 1.16    | -4.94   | -1.290  | 2.97     | 2.35  |

TABLE A2.103 - RUDDER DATA IN WIND AXES WITH AIR TARES

Trim = 3 deg Roll = Yaw = 0 deg

10 deg Deadrise, L/R = 0.000, Cv = 3.0

| RUN  | Rudder deg | Speed fps | X lb | Y lb  | Z lb  | K lb-ft | M lb-ft | N lb-ft | Heave in | TD in |
|------|------------|-----------|------|-------|-------|---------|---------|---------|----------|-------|
| 2244 | -20        | 14.74     | 2.92 | -0.28 | 11.49 | -2.01   | -8.43   | 2.489   | 3.88     | 1.44  |
| 2225 | -15        | 14.74     | 3.66 | -1.96 | 11.49 | 0.58    | -2.92   | 5.154   | 3.49     | 1.83  |
| 2238 | -10        | 14.73     | 2.63 | -1.62 | 11.49 | 0.58    | -2.36   | 3.705   | 3.47     | 1.85  |
| 2241 | -5         | 14.73     | 2.28 | -0.79 | 11.49 | 0.30    | -2.07   | 1.737   | 3.45     | 1.87  |
| 2219 | 0          | 14.75     | 2.28 | 0.32  | 11.49 | -0.01   | -2.25   | -0.570  | 3.44     | 1.88  |
| 2222 | 15         | 14.74     | 2.80 | 0.59  | 11.49 | 1.50    | -7.86   | -2.306  | 3.83     | 1.49  |

TABLE A2.104 - RUDDER DATA IN WIND AXES WITH AIR TARES

Trim = 3 deg Roll = Yaw = 0 deg

10 deg Deadrise, L/R = 0.000, Cv = 4.0

| RUN  | Rudder deg | Speed fps | X lb | Y lb  | Z lb  | K lb-ft | M lb-ft | N lb-ft | Heave in | TD in |
|------|------------|-----------|------|-------|-------|---------|---------|---------|----------|-------|
| 2245 | -20        | 19.64     | 3.50 | -0.84 | 11.49 | -4.02   | -16.00  | 4.121   | 4.65     | 0.67  |
| 2246 | -20        | 19.62     | 3.55 | -0.87 | 11.49 | -3.99   | -15.94  | 4.194   | 4.64     | 0.68  |
| 2226 | -15        | 19.67     | 3.25 | -1.20 | 11.49 | -2.04   | -13.57  | 4.057   | 4.44     | 0.88  |
| 2236 | -15        | 19.66     | 3.17 | -1.19 | 11.49 | -2.01   | -13.78  | 4.040   | 4.45     | 0.87  |
| 2239 | -10        | 19.63     | 3.79 | -2.89 | 11.49 | 0.90    | -4.23   | 6.423   | 3.86     | 1.46  |
| 2242 | -5         | 19.66     | 3.07 | -1.40 | 11.49 | 0.53    | -3.68   | 3.068   | 3.91     | 1.41  |
| 2220 | 0          | 19.64     | 2.87 | 0.58  | 11.49 | -0.06   | -4.00   | -0.978  | 3.88     | 1.44  |
| 2223 | 15         | 19.67     | 3.46 | 1.51  | 11.49 | 2.85    | -15.36  | -3.975  | 4.58     | 0.74  |
| 2248 | -20        | 19.65     | 5.57 | -0.37 | 21.49 | -1.74   | -10.07  | 4.564   | 3.56     | 1.76  |
| 2249 | -15        | 19.67     | 7.53 | -3.28 | 21.49 | 3.44    | 3.90    | 9.347   | 2.95     | 2.37  |

TABLE A2.201 - RUDDER DATA IN WIND AXES WITH AIR TARES

Trim = 3 deg Roll = Yaw = 0 deg

20 deg Deadrise, L/R = 0.000, Cv = 1.5

| RUN  | Rudder deg | Speed fps | X lb | Y lb  | Z lb  | K lb-ft | M lb-ft | N lb-ft | Heave in | TD in |
|------|------------|-----------|------|-------|-------|---------|---------|---------|----------|-------|
| 2177 | -20        | 7.36      | 1.35 | 0.17  | 11.49 | -2.24   | -6.62   | 0.571   | 2.72     | 2.60  |
| 2197 | -15        | 7.37      | 1.64 | -0.38 | 11.49 | -1.06   | -5.40   | 1.428   | 2.52     | 2.80  |
| 2200 | -10        | 7.37      | 1.45 | -0.40 | 11.49 | -0.61   | -5.45   | 1.212   | 2.52     | 2.80  |
| 2203 | -5         | 7.38      | 1.29 | -0.23 | 11.49 | -0.28   | -5.47   | 0.636   | 2.53     | 2.79  |
| 2173 | 0          | 7.37      | 1.24 | 0.04  | 11.49 | 0.02    | -5.43   | -0.007  | 2.61     | 2.71  |
| 2182 | 20         | 7.37      | 1.34 | -0.18 | 11.49 | 2.32    | -6.61   | -0.471  | 2.72     | 2.60  |

TABLE A2.203 - RUDDER DATA IN WIND AXES WITH AIR TARES

Trim = 3 deg Roll = Yaw = 0 deg

20 deg Deadrise, L/R = 0.000, Cv = 3.0

| RUN  | Rudder deg | Speed fps | X lb | Y lb  | Z lb  | K lb-ft | M lb-ft | N lb-ft | Heave in | TD in |
|------|------------|-----------|------|-------|-------|---------|---------|---------|----------|-------|
| 2178 | -20        | 14.73     | 2.39 | 0.32  | 11.49 | -4.46   | -13.56  | 1.175   | 3.99     | 1.33  |
| 2198 | -15        | 14.72     | 3.98 | -1.67 | 11.49 | 0.33    | -3.96   | 5.041   | 3.07     | 2.25  |
| 2201 | -10        | 14.77     | 3.20 | -1.77 | 11.49 | 0.52    | -3.66   | 4.388   | 3.06     | 2.26  |
| 2204 | -5         | 14.77     | 2.67 | -0.92 | 11.49 | 0.37    | -3.52   | 2.287   | 3.06     | 2.26  |
| 2174 | 0          | 14.73     | 2.46 | 0.15  | 11.49 | 0.08    | -3.55   | -0.097  | 3.15     | 2.17  |
| 2183 | 20         | 14.73     | 2.46 | -0.17 | 11.49 | 4.70    | -13.37  | -0.982  | 3.96     | 1.36  |

TABLE A2.204 - RUDDER DATA IN WIND AXES WITH AIR TARES

Trim = 3 deg Roll = Yaw = 0 deg

20 deg Deadrise, L/R = 0.000, Cv = 4.0

| RUN  | Rudder deg | Speed fps | X lb | Y lb  | Z lb  | K lb-ft | M lb-ft | N lb-ft | Heave in | TD in |
|------|------------|-----------|------|-------|-------|---------|---------|---------|----------|-------|
| 2179 | -20        | 19.64     | 2.65 | 0.14  | 11.49 | -5.52   | -17.39  | 1.682   | 4.64     | 0.68  |
| 2199 | -15        | 19.63     | 6.11 | -3.21 | 11.49 | 0.67    | -6.12   | 8.779   | 3.52     | 1.80  |
| 2209 | -15        | 19.64     | 5.98 | -3.22 | 11.49 | 0.72    | -5.71   | 8.783   | 3.48     | 1.84  |
| 2202 | -10        | 19.67     | 4.73 | -3.24 | 11.49 | 0.91    | -5.30   | 7.483   | 3.42     | 1.90  |
| 2206 | -5         | 19.66     | 3.76 | -1.64 | 11.49 | 0.71    | -5.20   | 3.863   | 3.48     | 1.84  |
| 2175 | 0          | 19.61     | 3.55 | 0.36  | 11.49 | 0.09    | -5.00   | -0.368  | 3.53     | 1.79  |
| 2207 | 15         | 19.68     | 4.93 | 1.55  | 11.49 | 1.59    | -10.31  | -4.629  | 3.76     | 1.56  |
| 2208 | 15         | 19.67     | 6.13 | 3.34  | 11.49 | 0.62    | -5.85   | -8.098  | 3.50     | 1.82  |
| 2184 | 20         | 19.62     | 2.74 | 0.14  | 11.49 | 5.90    | -17.25  | -1.577  | 4.64     | 0.68  |
| 2185 | 20         | 19.72     | 2.75 | 0.15  | 11.49 | 6.05    | -17.33  | -1.584  | 4.65     | 0.67  |
| 2195 | 20         | 19.63     | 2.73 | 0.14  | 11.49 | 5.98    | -17.53  | -1.585  | 4.62     | 0.70  |



## APPENDIX B

TABLE B.1 CHRONOLOGICAL RUN DIRECTORY

| Run  | Radius<br>ft | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps |       |
|--|--------------|-------------|-------------|------------|--------------|-------|
| Start of 20 Degree Deadrise Hull at 32 ft Radius     |              |             |             |            |              |       |
| 1-78 Calibration checks and runs without spray rails |              |             |             |            |              |       |
| Spray rails added to hull                            |              |             |             |            |              |       |
| DZ   | 79           | 32          | 3           | 0          | 10           | 0     |
| DR   | 80           | 32          | 3           | 0          | 10           | 0     |
| DZ   | 81           | 32          | 3           | 0          | 10           | 0     |
|  | 82           | 32          | 3           | 0          | 10           | 19.69 |
| DZ   | 83           | 32          | 3           | 0          | 15           | 0     |
|  | 84           | 32          | 3           | 0          | 15           | 19.63 |
|  | 85           | 32          | 3           | 0          | 15           | 14.78 |
|  | 86           | 32          | 3           | 0          | 15           | 7.32  |
| DZ   | 87           | 32          | 3           | 0          | 10           | 0     |
|  | 88           | 32          | 3           | 0          | 10           | 7.33  |
|  | 89           | 32          | 3           | 0          | 10           | 14.78 |
| DZ   | 90           | 32          | 3           | 0          | 5            | 0     |
|  | 91           | 32          | 3           | 0          | 5            | 7.20  |
|  | 92           | 32          | 3           | 0          | 5            | 7.33  |
|  | 94           | 32          | 3           | 0          | 5            | 14.78 |
|  | 95           | 32          | 3           | 0          | 5            | 19.70 |
| DZ   | 96           | 32          | 3           | 0          | 0            | 0     |
|  | 97           | 32          | 3           | 0          | 0            | 7.29  |
|  | 98           | 32          | 3           | 0          | 0            | 14.78 |
|  | 99           | 32          | 3           | 0          | 0            | 19.74 |
| DZ   | 100          | 32          | 3           | 0          | -5           | 0     |
|  | 101          | 32          | 3           | 0          | -5           | 7.33  |
|  | 102          | 32          | 3           | 0          | -5           | 14.78 |
|  | 103          | 32          | 3           | 0          | -5           | 19.73 |
|  | 104          | 32          | 3           | 0          | -10          | 0     |
|  | 105          | 32          | 3           | 0          | -10          | 7.33  |
|  | 106          | 32          | 3           | 0          | -10          | 14.78 |
|  | 107          | 32          | 3           | 0          | -10          | 19.75 |
|  | 108          | 32          | 3           | 0          | -15          | 7.33  |
| DZ   | 109          | 32          | 3           | 0          | -15          | 0     |
|  | 110          | 32          | 3           | 0          | -15          | 7.25  |
|  | 111          | 32          | 3           | 0          | -15          | 14.74 |
|  | 112          | 32          | 3           | 0          | -15          | 19.69 |
| DZ   | 113          | 32          | 3           | 10         | -15          | 0     |
|  | 114          | 32          | 3           | 10         | -15          | 7.29  |
|  | 115          | 32          | 3           | 10         | -15          | 14.74 |
| 116-132 Calibration checks                           |              |             |             |            |              |       |
| 133-153 Air tare tests                               |              |             |             |            |              |       |
| DZ   | 154          | 32          | 3           | 10         | -15          | 0     |
|  | 155          | 32          | 3           | 10         | -15          | 14.67 |
|  | 156          | 32          | 3           | 10         | -15          | 14.77 |
| DR   | 157          | 32          | 3           | 10         | -15          | 0     |
|  | 158          | 32          | 3           | 10         | -15          | 19.63 |
| DZ   | 159          | 32          | 3           | 10         | -10          | 0     |

\* Indicates model was close to heave stop

TABLE B.2 CHRONOLOGICAL RUN DIRECTORY

| Run                        | Radius<br>ft | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps |       |
|----------------------------|--------------|-------------|-------------|------------|--------------|-------|
| 20 Degree Deadrise Hull    |              |             |             |            |              |       |
|                            | 160          | 32          | 3           | 10         | -10          | 7.35  |
|                            | 161          | 32          | 3           | 10         | -10          | 14.81 |
|                            | 162          | 32          | 3           | 10         | -10          | 19.76 |
|                            | 163          | 32          | 3           | 10         | -5           | 0     |
|                            | 164          | 32          | 3           | 10         | -5           | 7.34  |
|                            | 165          | 32          | 3           | 10         | -5           | 14.81 |
|                            | 166          | 32          | 3           | 10         | -5           | 19.75 |
| DZ                         | 167          | 32          | 3           | 10         | 0            | 0     |
|                            | 168          | 32          | 3           | 10         | 0            | 7.34  |
|                            | 169          | 32          | 3           | 10         | 0            | 14.81 |
|                            | 170          | 32          | 3           | 10         | 0            | 19.76 |
| DZ                         | 171          | 32          | 3           | 10         | 5            | 0     |
|                            | 172          | 32          | 3           | 10         | 5            | 7.32  |
|                            | 173          | 32          | 3           | 10         | 5            | 14.81 |
|                            | 174          | 32          | 3           | 10         | 5            | 19.73 |
| 175-184 Calibration checks |              |             |             |            |              |       |
| DZ                         | 185          | 32          | 3           | 10         | 5            | 0     |
|                            | 186          | 32          | 3           | 10         | 5            | 19.73 |
| DZ                         | 187          | 32          | 3           | 10         | 10           | 0     |
|                            | 188          | 32          | 3           | 10         | 10           | 7.34  |
|                            | 189          | 32          | 3           | 10         | 10           | 14.77 |
|                            | 190          | 32          | 3           | 10         | 10           | 19.69 |
| DZ                         | 191          | 32          | 3           | 10         | 15           | 0     |
|                            | 192          | 32          | 3           | 10         | 15           | 7.34  |
|                            | 193          | 32          | 3           | 10         | 15           | 14.78 |
|                            | 194          | 32          | 3           | 10         | 15           | 19.68 |
| DZ                         | 195          | 32          | 3           | 20         | 15           | 0     |
|                            | 196          | 32          | 3           | 20         | 15           | 7.34  |
|                            | 197          | 32          | 3           | 20         | 15           | 14.74 |
|                            | 198          | 32          | 3           | 20         | 15           | 19.68 |
| DZ                         | 199          | 32          | 3           | 20         | 10           | 0     |
|                            | 200          | 32          | 3           | 20         | 10           | 7.35  |
|                            | 201          | 32          | 3           | 20         | 10           | 14.75 |
|                            | 202          | 32          | 3           | 20         | 10           | 19.69 |
| DZ                         | 203          | 32          | 3           | 20         | 5            | 0     |
|                            | 204          | 32          | 3           | 20         | 5            | 7.35  |
|                            | 205          | 32          | 3           | 20         | 5            | 14.75 |
|                            | 206          | 32          | 3           | 20         | 5            | 19.69 |
| DZ                         | 207          | 32          | 3           | 20         | 5            | 0     |
|                            | 208          | 32          | 3           | 20         | 5            | 7.35  |
|                            | 209          | 32          | 3           | 20         | 0            | 14.74 |
|                            | 210          | 32          | 3           | 20         | 0            | 19.69 |
| DZ                         | 211          | 32          | 3           | 20         | -5           | 0     |
|                            | 212          | 32          | 3           | 20         | -5           | 7.33  |
|                            | 213          | 32          | 3           | 20         | -5           | 14.74 |
|                            | 214          | 32          | 3           | 20         | -5           | 19.70 |
| DZ                         | 215          | 32          | 3           | 20         | -10          | 0     |
|                            | 216          | 32          | 3           | 20         | -10          | 7.35  |
|                            | 217          | 32          | 3           | 20         | -10          | 14.73 |
|                            | 218          | 32          | 3           | 20         | -10          | 19.64 |

\* Indicates model was close to heave stop

TABLE B.3 CHRONOLOGICAL RUN DIRECTORY

|                            | Run   | Radius<br>ft | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps |
|----------------------------|-------|--------------|-------------|-------------|------------|--------------|
| 20 Degree Deadrise Hull    |       |              |             |             |            |              |
| DZ                         | 219   | 32           | 3           | 20          | -15        | 0            |
|                            | 220   | 32           | 3           | 20          | -15        | 7.34         |
|                            | 221   | 32           | 3           | 20          | -15        | 14.74        |
|                            | 222   | 32           | 3           | 20          | -15        | 19.64        |
|                            | 223   | 32           | 3           | 20          | -13        | 19.64        |
|                            | 224   | 32           | 3           | 20          | -14        | 19.62        |
| DZ                         | 225   | 32           | 3           | -10         | 15         | 0            |
|                            | 226   | 32           | 3           | -10         | 15         | 7.34         |
|                            | 227 * | 32           | 3           | -10         | 15         | 14.73        |
|                            | 228 * | 32           | 3           | -10         | 15         | 19.69        |
| DZ                         | 229   | 32           | 3           | -10         | 10         | 0            |
|                            | 230   | 32           | 3           | -10         | 10         | 7.31         |
|                            | 231   | 32           | 3           | -10         | 10         | 14.72        |
|                            | 232   | 32           | 3           | -10         | 10         | 19.67        |
| DZ                         | 233   | 32           | 3           | -10         | 5          | 0            |
|                            | 234   | 32           | 3           | -10         | 5          | 7.29         |
|                            | 235   | 32           | 3           | -10         | 5          | 14.74        |
|                            | 236   | 32           | 3           | -10         | 5          | 19.68        |
| DZ                         | 237   | 32           | 3           | -10         | 0          | 0            |
|                            | 238   | 32           | 3           | -10         | 0          | 7.32         |
|                            | 239   | 32           | 3           | -10         | 0          | 14.74        |
|                            | 240   | 32           | 3           | -10         | 0          | 19.67        |
| DZ                         | 241   | 32           | 3           | -10         | -5         | 0            |
|                            | 242   | 32           | 3           | -10         | -5         | 7.31         |
|                            | 243   | 32           | 3           | -10         | -5         | 14.72        |
|                            | 244   | 32           | 3           | -10         | -5         | 19.68        |
| DZ                         | 245   | 32           | 3           | -10         | -10        | 0            |
|                            | 246   | 32           | 3           | -10         | -10        | 7.34         |
|                            | 247   | 32           | 3           | -10         | -10        | 14.74        |
|                            | 248   | 32           | 3           | -10         | -10        | 19.64        |
|                            | 249   | 32           | 3           | -10         | -10        | 19.68        |
| DZ                         | 250   | 32           | 3           | -10         | -15        | 0            |
|                            | 251   | 32           | 3           | -10         | -15        | 7.32         |
|                            | 252   | 32           | 3           | -10         | -15        | 14.74        |
|                            | 253   | 32           | 3           | -10         | -15        | 19.68        |
|                            | 254 * | 32           | 3           | -10         | 15         | 19.63        |
| 255-265 Calibration checks |       |              |             |             |            |              |
| DR                         | 266   | 32           | 6           | 0           | 0          | 0            |
|                            | 267   | 32           | 6           | 0           | 0          | 0            |
|                            | 268   | 32           | 6           | 0           | 0          | 7.34         |
|                            | 269   | 32           | 6           | 0           | 0          | 14.72        |
|                            | 270   | 32           | 6           | 0           | 0          | 19.64        |
| DR                         | 271   | 32           | 6           | 0           | 0          | 0            |
|                            | 272   | 32           | 6           | 0           | 0          | 19.61        |
| DZ                         | 273   | 32           | 6           | 0           | 5          | 0            |
|                            | 274   | 32           | 6           | 0           | 5          | 7.32         |
|                            | 275   | 32           | 6           | 0           | 5          | 14.70        |
|                            | 276   | 32           | 6           | 0           | 5          | 19.61        |
| DZ                         | 277   | 32           | 6           | 0           | 5          | 0            |

\* Indicates model was close to heave stop

TABLE B.4 CHRONOLOGICAL RUN DIRECTORY

| Run                        | Radius<br>ft | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps |       |
|----------------------------|--------------|-------------|-------------|------------|--------------|-------|
| 20 Degree Deadrise Hull    |              |             |             |            |              |       |
|                            | 278          | 32          | 6           | 0          | 10           | 7.35  |
|                            | 279          | 32          | 6           | 0          | 10           | 14.71 |
|                            | 280          | 32          | 6           | 0          | 10           | 14.70 |
|                            | 281          | 32          | 6           | 0          | 10           | 19.62 |
| DZ                         | 282          | 32          | 6           | 0          | 10           | 0     |
| DZ                         | 283          | 32          | 6           | 0          | 15           | 0     |
|                            | 284          | 32          | 6           | 0          | 15           | 7.34  |
|                            | 285          | 32          | 6           | 0          | 15           | 14.72 |
|                            | 286          | 32          | 6           | 0          | 15           | 19.64 |
| DZ                         | 287          | 32          | 6           | 0          | -5           | 0     |
|                            | 288          | 32          | 6           | 0          | -5           | 7.35  |
|                            | 289          | 32          | 6           | 0          | -5           | 14.72 |
|                            | 290          | 32          | 6           | 0          | -5           | 19.67 |
| DZ                         | 291          | 32          | 6           | 0          | -10          | 0     |
|                            | 292          | 32          | 6           | 0          | -10          | 7.33  |
|                            | 293          | 32          | 6           | 0          | -10          | 14.74 |
|                            | 294          | 32          | 6           | 0          | -10          | 19.67 |
| DZ                         | 295          | 32          | 6           | 0          | -15          | 0     |
|                            | 296          | 32          | 6           | 0          | -15          | 7.34  |
|                            | 297          | 32          | 6           | 0          | -15          | 14.74 |
|                            | 298          | 32          | 6           | 0          | -15          | 19.68 |
| DZ                         | 299          | 32          | 6           | 10         | -15          | 0     |
|                            | 300          | 32          | 6           | 10         | -15          | 7.35  |
| DR                         | 301          | 32          | 6           | 10         | -15          | 0     |
|                            | 302          | 32          | 6           | 10         | -15          | 14.72 |
|                            | 303          | 32          | 6           | 10         | -15          | 19.68 |
| DZ                         | 304          | 32          | 6           | 10         | -10          | 0     |
|                            | 305          | 32          | 6           | 10         | -10          | 7.33  |
|                            | 306          | 32          | 6           | 10         | -10          | 14.74 |
|                            | 307          | 32          | 6           | 10         | -10          | 19.68 |
| DZ                         | 308          | 32          | 6           | 10         | -5           | 0     |
|                            | 309          | 32          | 6           | 10         | -5           | 7.33  |
|                            | 310          | 32          | 6           | 10         | -5           | 14.74 |
|                            | 311          | 32          | 6           | 10         | -5           | 19.68 |
| 312-320 Calibration checks |              |             |             |            |              |       |
| DZ                         | 321          | 32          | 6           | 10         | -5           | 0     |
|                            | 322          | 32          | 6           | 10         | -5           | 19.58 |
| DR                         | 323          | 32          | 6           | 10         | 0            | 0     |
| DZ                         | 324          | 32          | 6           | 10         | 0            | 0     |
|                            | 325          | 32          | 6           | 10         | 0            | 7.34  |
|                            | 326          | 32          | 6           | 10         | 0            | 14.71 |
|                            | 327          | 32          | 6           | 10         | 0            | 19.61 |
| DZ                         | 328          | 32          | 6           | 10         | 5            | 0     |
|                            | 329          | 32          | 6           | 10         | 5            | 7.28  |
|                            | 330          | 32          | 6           | 10         | 5            | 14.67 |
|                            | 331          | 32          | 6           | 10         | 5            | 19.58 |
| DZ                         | 332          | 32          | 6           | 10         | 10           | 0     |
|                            | 333          | 32          | 6           | 10         | 10           | 7.35  |
|                            | 334          | 32          | 6           | 10         | 10           | 14.67 |
|                            | 335          | 32          | 6           | 10         | 10           | 19.57 |

\* Indicates model was close to heave stop

TABLE B.5 CHRONOLOGICAL RUN DIRECTORY

|                         | Run     | Radius<br>ft              | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps |  |
|-------------------------|---------|---------------------------|-------------|-------------|------------|--------------|--|
| 20 Degree Deadrise Hull |         |                           |             |             |            |              |  |
| DZ                      | 336     | 32                        | 6           | 10          | 15         | 0            |  |
|                         | 337     | 32                        | 6           | 10          | 15         | 7.35         |  |
|                         | 338     | 32                        | 6           | 10          | 15         | 14.70        |  |
|                         | 339     | 32                        | 6           | 10          | 15         | 19.62        |  |
| DZ                      | 340     | 32                        | 6           | 20          | 0          | 0            |  |
|                         | 341     | 32                        | 6           | 20          | 0          | 7.35         |  |
|                         | 342     | 32                        | 6           | 20          | 0          | 14.71        |  |
|                         | 343     | 32                        | 6           | 20          | 0          | 19.62        |  |
| DZ                      | 344     | 32                        | 6           | 20          | 5          | 0            |  |
|                         | 345     | 32                        | 6           | 20          | 5          | 7.34         |  |
|                         | 346     | 32                        | 6           | 20          | 5          | 14.74        |  |
|                         | 347     | 32                        | 6           | 20          | 5          | 19.61        |  |
| DZ                      | 348     | 32                        | 6           | 20          | 10         | 0            |  |
|                         | 349     | 32                        | 6           | 20          | 10         | 7.34         |  |
|                         | 350     | 32                        | 6           | 20          | 10         | 14.75        |  |
|                         | 351     | 32                        | 6           | 20          | 10         | 19.62        |  |
|                         | 352     | 32                        | 6           | 20          | 15         | 0            |  |
|                         | 353     | 32                        | 6           | 20          | 15         | 7.31         |  |
|                         | 354     | 32                        | 6           | 20          | 15         | 14.74        |  |
|                         | 355     | 32                        | 6           | 20          | 15         | 19.64        |  |
| DZ                      | 356     | 32                        | 6           | 20          | -5         | 0            |  |
|                         | 357     | 32                        | 6           | 20          | -5         | 7.34         |  |
|                         | 358     | 32                        | 6           | 20          | -5         | 14.74        |  |
|                         | 359     | 32                        | 6           | 20          | -5         | 19.63        |  |
| DZ                      | 360     | 32                        | 6           | 20          | -10        | 0            |  |
|                         | 361     | 32                        | 6           | 20          | -10        | 7.33         |  |
|                         | 362     | 32                        | 6           | 20          | -10        | 14.74        |  |
|                         | 363     | 32                        | 6           | 20          | -10        | 19.63        |  |
| DZ                      | 364     | 32                        | 6           | 20          | -15        | 0            |  |
|                         | 365     | 32                        | 6           | 20          | -15        | 7.33         |  |
|                         | 366     | 32                        | 6           | 20          | -15        | 14.74        |  |
|                         | 367     | 32                        | 6           | 20          | -15        | 19.63        |  |
|                         | 368-381 | Calibration checks        |             |             |            |              |  |
|                         | 382-392 | Static roll moment checks |             |             |            |              |  |
| DZ                      | 393     | 32                        | 6           | -10         | 0          | 0            |  |
|                         | 394     | 32                        | 6           | -10         | 0          | 7.36         |  |
|                         | 395     | 32                        | 6           | -10         | 0          | 14.81        |  |
|                         | 396     | 32                        | 6           | -10         | 0          | 19.70        |  |
| DZ                      | 397     | 32                        | 6           | -10         | 5          | 0            |  |
|                         | 398     | 32                        | 6           | -10         | 5          | 7.38         |  |
|                         | 399     | 32                        | 6           | -10         | 5          | 14.79        |  |
|                         | 400     | 32                        | 6           | -10         | 5          | 19.70        |  |
| DZ                      | 401     | 32                        | 6           | -10         | 10         | 0            |  |
|                         | 402     | 32                        | 6           | -10         | 10         | 7.37         |  |
|                         | 403     | 32                        | 6           | -10         | 10         | 14.78        |  |
|                         | 404     | 32                        | 6           | -10         | 10         | 19.67        |  |
| DZ                      | 405     | 32                        | 6           | -10         | 15         | 0            |  |
|                         | 406     | 32                        | 6           | -10         | 15         | 7.37         |  |
|                         | 407     | 32                        | 6           | -10         | 15         | 14.81        |  |
|                         | 408     | 32                        | 6           | -10         | 15         | 19.67        |  |

\* Indicates model was close to heave stop

TABLE B.6 CHRONOLOGICAL RUN DIRECTORY

|    | Run                        | Radius<br>ft | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps |
|----|----------------------------|--------------|-------------|-------------|------------|--------------|
|    | 20 Degree Deadrise Hull    |              |             |             |            |              |
|    | 409                        | 32           | 6           | -10         | -5         | 7.43         |
| DR | 410                        | 32           | 6           | -10         | -5         | 0            |
| DZ | 411                        | 32           | 6           | -10         | -5         | 0            |
|    | 412                        | 32           | 6           | -10         | -5         | 7.38         |
|    | 413                        | 32           | 6           | -10         | -5         | 14.80        |
|    | 414                        | 32           | 6           | -10         | -5         | 19.68        |
| DZ | 415                        | 32           | 6           | -10         | -10        | 0            |
|    | 416                        | 32           | 6           | -10         | -10        | 7.38         |
|    | 417                        | 32           | 6           | -10         | -10        | 14.82        |
|    | 418                        | 32           | 6           | -10         | -10        | 19.68        |
| DZ | 419                        | 32           | 6           | -10         | -15        | 0            |
|    | 420                        | 32           | 6           | -10         | -15        | 7.36         |
|    | 421                        | 32           | 6           | -10         | -15        | 14.82        |
|    | 422                        | 32           | 6           | -10         | -15        | 19.68        |
|    | 423-437 Calibration checks |              |             |             |            |              |
| DR | 438                        | 32           | 0           | 0           | 0          | 0            |
| DZ | 439                        | 32           | 0           | 0           | 0          | 0            |
|    | 440-442 Calibration checks |              |             |             |            |              |
|    | 443                        | 32           | 0           | 0           | 0          | 7.37         |
|    | 444                        | 32           | 0           | 0           | 0          | 14.81        |
|    | 445                        | 32           | 0           | 0           | 0          | 19.67        |
| DZ | 446                        | 32           | 0           | 0           | 5          | 0            |
|    | 447                        | 32           | 0           | 0           | 5          | 7.37         |
|    | 448                        | 32           | 0           | 0           | 5          | 14.81        |
|    | 449                        | 32           | 0           | 0           | 5          | 19.68        |
| DZ | 450                        | 32           | 0           | 0           | 10         | 0            |
|    | 451                        | 32           | 0           | 0           | 10         | 7.38         |
|    | 452 *                      | 32           | 0           | 0           | 10         | 14.81        |
|    | 453 *                      | 32           | 0           | 0           | 10         | 19.69        |
| DZ | 454                        | 32           | 0           | 0           | 15         | 0            |
|    | 455 *                      | 32           | 0           | 0           | 15         | 7.37         |
|    | 456 *                      | 32           | 0           | 0           | 15         | 14.77        |
|    | 457 *                      | 32           | 0           | 0           | 15         | 19.67        |
| DZ | 459                        | 32           | 0           | 0           | -5         | 0            |
|    | 460                        | 32           | 0           | 0           | -5         | 7.38         |
|    | 461                        | 32           | 0           | 0           | -5         | 14.77        |
|    | 462                        | 32           | 0           | 0           | -5         | 19.70        |
| DR | 463                        | 32           | 0           | 0           | -10        | 0            |
| DZ | 464                        | 32           | 0           | 0           | -10        | 0            |
|    | 465                        | 32           | 0           | 0           | -10        | 7.38         |
|    | 466 *                      | 32           | 0           | 0           | -10        | 14.74        |
|    | 467 *                      | 32           | 0           | 0           | -10        | 19.68        |
| DZ | 468                        | 32           | 0           | 0           | -15        | 0            |
|    | 469 *                      | 32           | 0           | 0           | -15        | 7.36         |
| DR | 470                        | 32           | 0           | 10          | 0          | 0            |
| DZ | 471                        | 32           | 0           | 10          | 0          | 0            |
|    | 472                        | 32           | 0           | 10          | 0          | 7.38         |
|    | 473                        | 32           | 0           | 10          | 0          | 14.77        |
|    | 474                        | 32           | 0           | 10          | 0          | 19.68        |

\* Indicates model was close to heave stop

TABLE B.7 CHRONOLOGICAL RUN DIRECTORY

|    | Run                              | Radius<br>ft | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps |
|----|----------------------------------|--------------|-------------|-------------|------------|--------------|
|    | 20 Degree Deadrise Hull          |              |             |             |            |              |
| DZ | 475                              | 32           | 0           | 10          | 5          | 0            |
|    | 476                              | 32           | 0           | 10          | 5          | 7.59         |
| DR | 477                              | 32           | 0           | 10          | 5          | 15.32        |
|    | 478                              | 32           | 0           | 10          | 5          | 14.64        |
|    | 479                              | 32           | 0           | 10          | 5          | 19.88        |
|    | 481-505 Adjusting drive controls |              |             |             |            |              |
|    | 506-515 Calibration checks       |              |             |             |            |              |
| DR | 516                              | 32           | 0           | 10          | 0          | 0            |
| DZ | 517                              | 32           | 0           | 10          | 0          | 0            |
|    | 518                              | 32           | 0           | 10          | 0          | 7.36         |
|    | 519                              | 32           | 0           | 10          | 0          | 19.81        |
|    | 520                              | 32           | 0           | 10          | 0          | 19.45        |
|    | 521                              | 32           | 0           | 10          | 5          | 19.76        |
| DZ | 522                              | 32           | 0           | 10          | 5          | 0            |
|    | 523                              | 32           | 0           | 10          | 5          | 7.43         |
| DR | 524                              | 32           | 0           | 10          | 5          | 14.91        |
| DZ | 525                              | 32           | 0           | 10          | 10         | 0            |
|    | 526                              | 32           | 0           | 10          | 10         | 7.42         |
|    | 527                              | 32           | 0           | 10          | 10         | 14.71        |
|    | 528                              | 32           | 0           | 10          | 10         | 14.71        |
|    | 529                              | 32           | 0           | 10          | 10         | 19.75        |
| DZ | 530                              | 32           | 0           | 10          | -5         | 0            |
|    | 531                              | 32           | 0           | 10          | -5         | 7.43         |
|    | 532                              | 32           | 0           | 10          | -5         | 14.70        |
|    | 533                              | 32           | 0           | 10          | -5         | 19.62        |
| DZ | 534                              | 32           | 0           | 10          | -10        | 0            |
|    | 535                              | 32           | 0           | 10          | -10        | 7.42         |
|    | 536                              | 32           | 0           | 10          | -10        | 14.71        |
|    | 537 *                            | 32           | 0           | 10          | -10        | 19.61        |
| DZ | 538                              | 32           | 0           | 20          | 0          | 0            |
|    | 539                              | 32           | 0           | 20          | 0          | 7.42         |
|    | 540                              | 32           | 0           | 20          | 0          | 14.70        |
|    | 541                              | 32           | 0           | 20          | 0          | 19.56        |
| DR | 542                              | 32           | 0           | 20          | 5          | 0            |
| DZ | 543                              | 32           | 0           | 20          | 5          | 0            |
|    | 544                              | 32           | 0           | 20          | 5          | 7.40         |
| DR | 545                              | 32           | 0           | 20          | 5          | 0            |
|    | 546                              | 32           | 0           | 20          | 5          | 14.68        |
|    | 547                              | 32           | 0           | 20          | 5          | 19.55        |
| DZ | 548                              | 32           | 0           | 20          | 10         | 0            |
|    | 549                              | 32           | 0           | 20          | 10         | 7.39         |
|    | 550                              | 32           | 0           | 20          | 10         | 14.68        |
|    | 551                              | 32           | 0           | 20          | 10         | 19.57        |
|    | 552                              | 32           | 0           | 20          | 10         | 19.50        |
| DZ | 553                              | 32           | 0           | 20          | -5         | 0            |
|    | 554                              | 32           | 0           | 20          | -5         | 19.45        |
| DZ | 555                              | 32           | 0           | 20          | -5         | 0            |
|    | 556                              | 32           | 0           | 20          | -5         | 7.30         |
|    | 557                              | 32           | 0           | 20          | -5         | 14.61        |
|    | 558                              | 32           | 0           | 20          | -5         | 14.71        |

\* Indicates model was close to heave stop

TABLE B.8 CHRONOLOGICAL RUN DIRECTORY

| Run                     | Radius<br>ft | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps |       |
|-------------------------|--------------|-------------|-------------|------------|--------------|-------|
| 20 Degree Deadrise Hull |              |             |             |            |              |       |
|                         | 559          | 32          | 0           | 20         | -5           | 19.74 |
| DZ                      | 560          | 32          | 0           | 20         | -10          | 0     |
|                         | 561          | 32          | 0           | 20         | -10          | 7.45  |
|                         | 562 *        | 32          | 0           | 20         | -10          | 14.72 |
|                         | 563          | 32          | 0           | 20         | -10          | 19.62 |
|                         | 564          | 32          | 0           | 20         | 5            | 19.62 |
|                         | 565          | 32          | 0           | 20         | 10           | 19.62 |
|                         | 566 *        | 32          | 0           | 20         | -8           | 19.62 |
|                         | 567          | 32          | 0           | 20         | -8           | 14.74 |
|                         | 568          | 32          | 0           | -10        | -8           | 0     |
| DZ                      | 569          | 32          | 0           | -10        | 0            | 0     |
| DZ                      | 570          | 32          | 0           | -10        | 0            | 7.44  |
|                         | 571          | 32          | 0           | -10        | 0            | 14.71 |
|                         | 572          | 32          | 0           | -10        | 0            | 19.63 |
|                         | 573          | 32          | 0           | -10        | 5            | 7.44  |
| DZ                      | 574          | 32          | 0           | -10        | 5            | 0     |
|                         | 575          | 32          | 0           | -10        | 5            | 14.74 |
|                         | 576 *        | 32          | 0           | -10        | 5            | 19.63 |
| DZ                      | 577          | 32          | 0           | -10        | 10           | 0     |
|                         | 578          | 32          | 0           | -10        | 10           | 7.41  |
|                         | 579 *        | 32          | 0           | -10        | 10           | 14.74 |
|                         | 580 *        | 32          | 0           | -10        | 10           | 19.62 |
|                         | 581          | 32          | 0           | -10        | -5           | 7.42  |
| DZ                      | 582          | 32          | 0           | -10        | -5           | 0     |
|                         | 583          | 32          | 0           | -10        | -5           | 14.74 |
|                         | 584          | 32          | 0           | -10        | -5           | 19.62 |
| DZ                      | 585          | 32          | 0           | -10        | -10          | 0     |
|                         | 586          | 32          | 0           | -10        | -10          | 7.42  |
|                         | 587          | 32          | 0           | -10        | -10          | 14.75 |
|                         | 588          | 32          | 0           | -10        | -10          | 19.67 |

588-599 Calibration checks

600-611 Air tare tests

End of 20 degree deadrise hull at 32 ft

Start of 10 Degree Deadrise Hull at 32 ft Radius

612-613 Calibration checks

614-641 Air tare tests

|    |     |    |   |   |   |       |
|----|-----|----|---|---|---|-------|
| DR | 642 | 32 | 0 | 0 | 0 | 0     |
| DZ | 643 | 32 | 0 | 0 | 0 | 0     |
| DR | 644 | 32 | 0 | 0 | 0 | 0     |
| DZ | 645 | 32 | 0 | 0 | 0 | 0     |
| DR | 646 | 32 | 0 | 0 | 0 | 0     |
| DZ | 647 | 32 | 0 | 0 | 0 | 0     |
| DZ | 648 | 32 | 0 | 0 | 0 | 0     |
|    | 649 | 32 | 0 | 0 | 0 | 7.40  |
|    | 650 | 32 | 0 | 0 | 0 | 14.72 |
|    | 651 | 32 | 0 | 0 | 0 | 19.70 |

\* Indicates model was close to heave stop



TABLE B.9 CHRONOLOGICAL RUN DIRECTORY

|    | Run                     | Radius<br>ft       | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps |  |
|----|-------------------------|--------------------|-------------|-------------|------------|--------------|--|
|    | 10 Degree Deadrise Hull |                    |             |             |            |              |  |
|    | 652                     | 32                 | 0           | 0           | 5          | 7.37         |  |
| DZ | 653                     | 32                 | 0           | 0           | 5          | 0            |  |
|    | 654                     | 32                 | 0           | 0           | 5          | 14.74        |  |
|    | 655                     | 32                 | 0           | 0           | 5          | 19.70        |  |
| DZ | 656                     | 32                 | 0           | 0           | 10         | 0            |  |
|    | 657                     | 32                 | 0           | 0           | 10         | 7.39         |  |
|    | 658 *                   | 32                 | 0           | 0           | 10         | 14.74        |  |
|    | 659 *                   | 32                 | 0           | 0           | 10         | 19.67        |  |
| DZ | 660                     | 32                 | 0           | 0           | -5         | 0            |  |
|    | 661                     | 32                 | 0           | 0           | -5         | 7.36         |  |
|    | 662                     | 32                 | 0           | 0           | -5         | 14.74        |  |
|    | 663                     | 32                 | 0           | 0           | -5         | 19.68        |  |
| DZ | 664                     | 32                 | 0           | 0           | -10        | 0            |  |
|    | 665                     | 32                 | 0           | 0           | -10        | 7.38         |  |
|    | 666 *                   | 32                 | 0           | 0           | -10        | 14.75        |  |
|    | 667 *                   | 32                 | 0           | 0           | -10        | 19.68        |  |
| DZ | 668                     | 32                 | 0           | 10          | -10        | 0            |  |
|    | 669                     | 32                 | 0           | 10          | 0          | 7.38         |  |
|    | 670                     | 32                 | 0           | 10          | 0          | 14.73        |  |
|    | 671                     | 32                 | 0           | 10          | 0          | 19.67        |  |
| DZ | 672                     | 32                 | 0           | 10          | 5          | 0            |  |
|    | 673                     | 32                 | 0           | 10          | 5          | 7.38         |  |
|    | 674                     | 32                 | 0           | 10          | 5          | 14.74        |  |
|    | 675                     | 32                 | 0           | 10          | 5          | 19.67        |  |
| DZ | 676                     | 32                 | 0           | 10          | 10         | 0            |  |
|    | 677                     | 32                 | 0           | 10          | 10         | 7.38         |  |
|    | 678                     | 32                 | 0           | 10          | 10         | 14.74        |  |
|    | 679                     | 32                 | 0           | 10          | 10         | 19.68        |  |
|    | 680                     | 32                 | 0           | 10          | 10         | 19.67        |  |
| DZ | 681                     | 32                 | 0           | 10          | 15         | 0            |  |
|    | 682                     | 32                 | 0           | 10          | 15         | 7.37         |  |
|    | 683                     | 32                 | 0           | 10          | 15         | 14.75        |  |
|    | 684                     | 32                 | 0           | 10          | 15         | 19.70        |  |
| DZ | 685                     | 32                 | 0           | 10          | -5         | 0            |  |
|    | 686                     | 32                 | 0           | 10          | -5         | 7.38         |  |
|    | 687                     | 32                 | 0           | 10          | -5         | 14.75        |  |
|    | 688 *                   | 32                 | 0           | 10          | -5         | 19.67        |  |
| DZ | 689                     | 32                 | 0           | 10          | -10        | 0            |  |
|    | 690                     | 32                 | 0           | 10          | -10        | 7.40         |  |
|    | 691 *                   | 32                 | 0           | 10          | -10        | 14.74        |  |
|    | 692 *                   | 32                 | 0           | 10          | -10        | 19.67        |  |
|    | 693-705                 | Calibration checks |             |             |            |              |  |
| DZ | 706                     | 32                 | 0           | 20          | 0          | 0            |  |
| DZ | 707                     | 32                 | 0           | 20          | 0          | 0            |  |
|    | 708                     | 32                 | 0           | 20          | 0          | 7.36         |  |
|    | 709                     | 32                 | 0           | 20          | 0          | 14.71        |  |
|    | 710                     | 32                 | 0           | 20          | 0          | 19.63        |  |
| DZ | 711                     | 32                 | 0           | 20          | 5          | 0            |  |
|    | 712                     | 32                 | 0           | 20          | 5          | 7.36         |  |
|    | 713                     | 32                 | 0           | 20          | 5          | 14.71        |  |

\* Indicates model was close to heave stop

TABLE B.10 CHRONOLOGICAL RUN DIRECTORY

|    | Run                     | Radius<br>ft | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps |
|----|-------------------------|--------------|-------------|-------------|------------|--------------|
|    | 10 Degree Deadrise Hull |              |             |             |            |              |
|    | 714                     | 32           | 0           | 20          | 5          | 19.63        |
| DZ | 715                     | 32           | 0           | 20          | 10         | 0            |
|    | 716                     | 32           | 0           | 20          | 10         | 7.36         |
|    | 717                     | 32           | 0           | 20          | 10         | 14.71        |
|    | 718                     | 32           | 0           | 20          | 10         | 14.72        |
|    | 719                     | 32           | 0           | 20          | 10         | 19.62        |
| DZ | 720                     | 32           | 0           | 20          | 15         | 0            |
|    | 721                     | 32           | 0           | 20          | 15         | 7.36         |
|    | 722                     | 32           | 0           | 20          | 15         | 14.70        |
|    | 723                     | 32           | 0           | 20          | 15         | 19.61        |
| DZ | 724                     | 32           | 0           | 20          | -5         | 0            |
|    | 725                     | 32           | 0           | 20          | -5         | 7.36         |
|    | 726                     | 32           | 0           | 20          | -5         | 14.71        |
|    | 727 *                   | 32           | 0           | 20          | -5         | 19.61        |
| DZ | 728                     | 32           | 0           | 20          | -10        | 0            |
|    | 729                     | 32           | 0           | 20          | -10        | 7.35         |
|    | 730 *                   | 32           | 0           | 20          | -10        | 14.71        |
|    | 731 *                   | 32           | 0           | 20          | -10        | 19.61        |
| DZ | 732                     | 32           | 0           | -10         | 0          | 0            |
|    | 733                     | 32           | 0           | -10         | 0          | 7.36         |
|    | 734                     | 32           | 0           | -10         | 0          | 14.71        |
|    | 735                     | 32           | 0           | -10         | 0          | 19.61        |
| DZ | 736                     | 32           | 0           | -10         | 5          | 0            |
|    | 737                     | 32           | 0           | -10         | 5          | 7.35         |
|    | 738                     | 32           | 0           | -10         | 5          | 14.68        |
|    | 739                     | 32           | 0           | -10         | 5          | 19.63        |
| DZ | 740                     | 32           | 0           | -10         | 10         | 0            |
|    | 741                     | 32           | 0           | -10         | 10         | 7.35         |
|    | 742                     | 32           | 0           | -10         | 10         | 14.68        |
|    | 743                     | 32           | 0           | -10         | 10         | 19.63        |
| DZ | 745                     | 32           | 0           | -10         | -5         | 0            |
|    | 746                     | 32           | 0           | -10         | -5         | 7.35         |
|    | 747                     | 32           | 0           | -10         | -5         | 14.67        |
|    | 748                     | 32           | 0           | -10         | -5         | 19.63        |
| DZ | 749                     | 32           | 0           | -10         | -10        | 0            |
|    | 750                     | 32           | 0           | -10         | -10        | 7.34         |
|    | 751                     | 32           | 0           | -10         | -10        | 14.68        |
|    | 752                     | 32           | 0           | -10         | -10        | 19.61        |
| DZ | 753                     | 32           | 0           | -10         | -15        | 0            |
|    | 754                     | 32           | 0           | -10         | -15        | 7.34         |
|    | 755                     | 32           | 0           | -10         | -15        | 14.67        |
|    | 756                     | 32           | 0           | -10         | -15        | 19.63        |
|    | 757                     | 32           | 0           | -10         | -15        | 19.69        |
|    | 758                     | 32           | 0           | -10         | -15        | 14.74        |
| DZ | 759                     | 32           | 3           | 0           | 0          | 0            |
|    | 760                     | 32           | 3           | 0           | 0          | 7.36         |
|    | 761                     | 32           | 3           | 0           | 0          | 14.72        |
|    | 762                     | 32           | 3           | 0           | 0          | 19.70        |
| DZ | 763                     | 32           | 3           | 0           | 5          | 0            |
|    | 764                     | 32           | 3           | 0           | 5          | 7.35         |

\* Indicates model was close to heave stop

TABLE B.11 CHRONOLOGICAL RUN DIRECTORY

| Run                        | Radius<br>ft | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps |       |
|----------------------------|--------------|-------------|-------------|------------|--------------|-------|
| 10 Degree Deadrise Hull    |              |             |             |            |              |       |
|                            | 765          | 32          | 3           | 0          | 5            | 14.72 |
|                            | 766          | 32          | 3           | 0          | 5            | 19.70 |
| DZ                         | 767          | 32          | 3           | 0          | 10           | 0     |
|                            | 768          | 32          | 3           | 0          | 10           | 7.36  |
|                            | 769          | 32          | 3           | 0          | 10           | 14.74 |
|                            | 770          | 32          | 3           | 0          | 10           | 19.67 |
| DZ                         | 771          | 32          | 3           | 0          | 15           | 0     |
|                            | 772          | 32          | 3           | 0          | 15           | 7.36  |
|                            | 773          | 32          | 3           | 0          | 15           | 14.73 |
|                            | 774          | 32          | 3           | 0          | 15           | 19.69 |
| 775-785 Calibration checks |              |             |             |            |              |       |
| DZ                         | 786          | 32          | 3           | 0          | 15           | 0     |
|                            | 787          | 32          | 3           | 0          | 15           | 19.63 |
|                            | 788          | 32          | 3           | 0          | 15           | 14.68 |
|                            | 789          | 32          | 3           | 0          | 15           | 7.35  |
| DZ                         | 790          | 32          | 3           | 0          | 10           | 0     |
|                            | 791          | 32          | 3           | 0          | 10           | 19.67 |
|                            | 792          | 32          | 3           | 0          | 5            | 19.68 |
|                            | 793          | 32          | 3           | 0          | 0            | 19.69 |
| DZ                         | 794          | 32          | 3           | 0          | -5           | 0     |
|                            | 795          | 32          | 3           | 0          | -5           | 7.46  |
|                            | 796          | 32          | 3           | 0          | -5           | 14.74 |
|                            | 797          | 32          | 3           | 0          | -5           | 19.69 |
| DZ                         | 798          | 32          | 3           | 0          | -10          | 0     |
|                            | 799          | 32          | 3           | 0          | -10          | 7.36  |
|                            | 800          | 32          | 3           | 0          | -10          | 14.75 |
|                            | 801          | 32          | 3           | 0          | -10          | 19.69 |
| DZ                         | 802          | 32          | 3           | 0          | -15          | 0     |
|                            | 803          | 32          | 3           | 0          | -15          | 7.37  |
|                            | 804          | 32          | 3           | 0          | -15          | 14.75 |
|                            | 805          | 32          | 3           | 0          | -15          | 19.69 |
|                            | 806          | 32          | 3           | 0          | 0            | 14.74 |
|                            | 807          | 32          | 3           | 0          | 5            | 14.74 |
|                            | 808          | 32          | 3           | 0          | 10           | 14.74 |
|                            | 809          | 32          | 3           | 0          | 10           | 7.37  |
| DR                         | 810          | 32          | 3           | 10         | 0            | 0     |
| DZ                         | 811          | 32          | 3           | 10         | 0            | 0     |
|                            | 812          | 32          | 3           | 10         | 0            | 7.39  |
|                            | 813          | 32          | 3           | 10         | 0            | 7.37  |
|                            | 814          | 32          | 3           | 10         | 0            | 14.74 |
|                            | 815          | 32          | 3           | 10         | 0            | 19.70 |
| DZ                         | 816          | 32          | 3           | 10         | 5            | 0     |
|                            | 817          | 32          | 3           | 10         | 5            | 7.37  |
|                            | 818          | 32          | 3           | 10         | 5            | 14.73 |
|                            | 819          | 32          | 3           | 10         | 5            | 19.69 |
| DZ                         | 820          | 32          | 3           | 10         | 10           | 0     |
|                            | 821          | 32          | 3           | 10         | 10           | 7.37  |
|                            | 822          | 32          | 3           | 10         | 10           | 14.74 |
|                            | 823          | 32          | 3           | 10         | 10           | 19.69 |

\* Indicates model was close to heave stop

TABLE B.12 CHRONOLOGICAL RUN DIRECTORY

|                            | Run   | Radius<br>ft | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps |
|----------------------------|-------|--------------|-------------|-------------|------------|--------------|
| 10 Degree Deadrise Hull    |       |              |             |             |            |              |
| DZ                         | 824   | 32           | 3           | 10          | 15         | 0            |
|                            | 825   | 32           | 3           | 10          | 15         | 7.37         |
|                            | 826   | 32           | 3           | 10          | 15         | 14.74        |
|                            | 827   | 32           | 3           | 10          | 15         | 19.69        |
| DZ                         | 828   | 32           | 3           | 10          | -5         | 0            |
|                            | 829   | 32           | 3           | 10          | -5         | 19.70        |
|                            | 830   | 32           | 3           | 10          | -5         | 7.37         |
|                            | 831   | 32           | 3           | 10          | -5         | 14.74        |
| DZ                         | 832   | 32           | 3           | 10          | -10        | 0            |
|                            | 833   | 32           | 3           | 10          | -10        | 7.37         |
|                            | 834   | 32           | 3           | 10          | -10        | 14.74        |
|                            | 835   | 32           | 3           | 10          | -10        | 19.69        |
| DZ                         | 836   | 32           | 3           | 10          | -15        | 0            |
|                            | 837   | 32           | 3           | 10          | -15        | 7.37         |
|                            | 838   | 32           | 3           | 10          | -15        | 14.75        |
|                            | 839   | 32           | 3           | 10          | -15        | 19.68        |
|                            | 840   | 32           | 3           | 10          | -10        | 7.37         |
| DZ                         | 841   | 32           | 3           | 20          | 0          | 0            |
|                            | 842   | 32           | 3           | 20          | 0          | 7.37         |
|                            | 843   | 32           | 3           | 20          | 0          | 14.74        |
|                            | 844   | 32           | 3           | 20          | 0          | 19.73        |
| DZ                         | 845   | 32           | 3           | 20          | 5          | 0            |
|                            | 846   | 32           | 3           | 20          | 5          | 7.37         |
|                            | 847   | 32           | 3           | 20          | 5          | 14.75        |
|                            | 848   | 32           | 3           | 20          | 5          | 19.70        |
| DZ                         | 849   | 32           | 3           | 20          | 10         | 0            |
|                            | 850   | 32           | 3           | 20          | 10         | 7.37         |
|                            | 851   | 32           | 3           | 20          | 10         | 14.74        |
|                            | 852   | 32           | 3           | 20          | 10         | 19.73        |
| DZ                         | 853   | 32           | 3           | 20          | -5         | 0            |
|                            | 854   | 32           | 3           | 20          | -5         | 7.37         |
|                            | 855   | 32           | 3           | 20          | -5         | 14.75        |
| 856-866 Calibration checks |       |              |             |             |            |              |
| DZ                         | 867   | 32           | 3           | 20          | -5         | 0            |
|                            | 868   | 32           | 3           | 20          | -5         | 14.71        |
|                            | 869   | 32           | 3           | 20          | -5         | 19.67        |
| DZ                         | 870   | 32           | 3           | 20          | -10        | 0            |
|                            | 871   | 32           | 3           | 20          | -10        | 7.36         |
|                            | 872   | 32           | 3           | 20          | -10        | 14.70        |
|                            | 873   | 32           | 3           | 20          | -10        | 19.67        |
|                            | 874   | 32           | 3           | 20          | -10        | 19.69        |
| DZ                         | 875   | 32           | 3           | 20          | -15        | 0            |
|                            | 876   | 32           | 3           | 20          | -15        | 7.36         |
|                            | 877 * | 32           | 3           | 20          | -15        | 14.72        |
| DZ                         | 878   | 32           | 3           | 20          | 15         | 0            |
|                            | 879   | 32           | 3           | 20          | 15         | 7.36         |
|                            | 880   | 32           | 3           | 20          | 15         | 14.71        |
|                            | 881   | 32           | 3           | 20          | 15         | 19.69        |
| DR                         | 882   | 32           | 3           | -10         | -15        | 0            |
| DZ                         | 883   | 32           | 3           | -10         | -15        | 0            |

\* Indicates model was close to heave stop

TABLE B.13 CHRONOLOGICAL RUN DIRECTORY

| Run                     | Radius<br>ft | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps |       |
|-------------------------|--------------|-------------|-------------|------------|--------------|-------|
| 10 Degree Deadrise Hull |              |             |             |            |              |       |
|                         | 884          | 32          | 3           | -10        | -15          | 7.36  |
|                         | 885          | 32          | 3           | -10        | -15          | 14.71 |
|                         | 886          | 32          | 3           | -10        | -15          | 19.68 |
| DZ                      | 887          | 32          | 3           | -10        | -10          | 0     |
|                         | 888          | 32          | 3           | -10        | -10          | 7.36  |
|                         | 889          | 32          | 3           | -10        | -10          | 14.74 |
|                         | 890          | 32          | 3           | -10        | -10          | 19.69 |
| DZ                      | 891          | 32          | 3           | -10        | -5           | 0     |
|                         | 892          | 32          | 3           | -10        | -5           | 7.36  |
|                         | 893          | 32          | 3           | -10        | -5           | 14.74 |
|                         | 894          | 32          | 3           | -10        | -5           | 19.69 |
| DZ                      | 895          | 32          | 3           | -10        | 0            | 0     |
|                         | 896          | 32          | 3           | -10        | 0            | 7.36  |
|                         | 897          | 32          | 3           | -10        | 0            | 14.71 |
|                         | 898          | 32          | 3           | -10        | 0            | 19.68 |
| DZ                      | 899          | 32          | 3           | -10        | 5            | 0     |
|                         | 900          | 32          | 3           | -10        | 5            | 7.36  |
|                         | 901          | 32          | 3           | -10        | 5            | 14.72 |
|                         | 902          | 32          | 3           | -10        | 5            | 19.68 |
| DZ                      | 903          | 32          | 3           | -10        | 10           | 0     |
|                         | 904          | 32          | 3           | -10        | 10           | 7.36  |
|                         | 905          | 32          | 3           | -10        | 10           | 14.73 |
|                         | 906          | 32          | 3           | -10        | 10           | 19.69 |
| DZ                      | 907          | 32          | 3           | -10        | 15           | 0     |
|                         | 908          | 32          | 3           | -10        | 15           | 7.36  |
|                         | 909 *        | 32          | 3           | -10        | 15           | 14.74 |
|                         | 910 *        | 32          | 3           | -10        | 15           | 19.69 |
| DR                      | 911          | 32          | 6           | 0          | 0            | 0     |
| DZ                      | 912          | 32          | 6           | 0          | 0            | 0     |
|                         | 913          | 32          | 6           | 0          | 0            | 7.36  |
|                         | 914          | 32          | 6           | 0          | 0            | 14.73 |
|                         | 915          | 32          | 6           | 0          | 0            | 19.68 |
|                         | 916          | 32          | 6           | 0          | 0            | 19.68 |
| DZ                      | 917          | 32          | 6           | 0          | 5            | 0     |
|                         | 918          | 32          | 6           | 0          | 5            | 7.36  |
|                         | 919          | 32          | 6           | 0          | 5            | 14.70 |
|                         | 920          | 32          | 6           | 0          | 5            | 19.69 |
| DZ                      | 921          | 32          | 6           | 0          | 10           | 0     |
|                         | 922          | 32          | 6           | 0          | 10           | 7.36  |
|                         | 923          | 32          | 6           | 0          | 10           | 14.71 |
|                         | 924          | 32          | 6           | 0          | 10           | 19.69 |
| DZ                      | 925          | 32          | 6           | 0          | 15           | 0     |
|                         | 926          | 32          | 6           | 0          | 15           | 7.36  |
|                         | 927          | 32          | 6           | 0          | 15           | 14.71 |
|                         | 928          | 32          | 6           | 0          | 15           | 19.69 |
| DZ                      | 929          | 32          | 6           | 0          | -5           | 0     |
|                         | 930          | 32          | 6           | 0          | -5           | 7.36  |
|                         | 931          | 32          | 6           | 0          | -5           | 14.72 |
|                         | 932          | 32          | 6           | 0          | -5           | 19.69 |

\* Indicates model was close to heave stop

TABLE B.14 CHRONOLOGICAL RUN DIRECTORY

|                            | Run | Radius<br>ft | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps |
|----------------------------|-----|--------------|-------------|-------------|------------|--------------|
| 10 Degree Deadrise Hull    |     |              |             |             |            |              |
| DZ                         | 933 | 32           | 6           | 0           | -10        | 0            |
|                            | 934 | 32           | 6           | 0           | -10        | 7.36         |
|                            | 935 | 32           | 6           | 0           | -10        | 14.72        |
|                            | 936 | 32           | 6           | 0           | -10        | 19.67        |
| DZ                         | 937 | 32           | 6           | 0           | -15        | 0            |
|                            | 938 | 32           | 6           | 0           | -15        | 7.36         |
|                            | 939 | 32           | 6           | 0           | -15        | 14.72        |
|                            | 940 | 32           | 6           | 0           | -15        | 19.70        |
| 941-952 Calibration checks |     |              |             |             |            |              |
| DR                         | 953 | 32           | 6           | 10          | 0          | 0            |
| DZ                         | 954 | 32           | 6           | 10          | 0          | 0            |
|                            | 955 | 32           | 6           | 10          | 0          | 7.35         |
|                            | 956 | 32           | 6           | 10          | 0          | 14.66        |
|                            | 957 | 32           | 6           | 10          | 0          | 19.62        |
| DZ                         | 958 | 32           | 6           | 10          | 5          | 0            |
|                            | 959 | 32           | 6           | 10          | 5          | 7.36         |
|                            | 960 | 32           | 6           | 10          | 5          | 14.70        |
|                            | 961 | 32           | 6           | 10          | 5          | 19.68        |
| DZ                         | 962 | 32           | 6           | 10          | 10         | 0            |
|                            | 963 | 32           | 6           | 10          | 10         | 7.36         |
|                            | 964 | 32           | 6           | 10          | 10         | 14.72        |
|                            | 965 | 32           | 6           | 10          | 10         | 19.67        |
| DZ                         | 966 | 32           | 6           | 10          | 15         | 0            |
|                            | 967 | 32           | 6           | 10          | 15         | 7.36         |
|                            | 968 | 32           | 6           | 10          | 15         | 14.70        |
|                            | 969 | 32           | 6           | 10          | 15         | 19.67        |
| DZ                         | 970 | 32           | 6           | 10          | -5         | 0            |
|                            | 971 | 32           | 6           | 10          | -5         | 7.36         |
|                            | 972 | 32           | 6           | 10          | -5         | 14.70        |
|                            | 973 | 32           | 6           | 10          | -5         | 19.68        |
| DZ                         | 974 | 32           | 6           | 10          | -10        | 0            |
|                            | 975 | 32           | 6           | 10          | -10        | 7.36         |
|                            | 976 | 32           | 6           | 10          | -10        | 14.70        |
|                            | 977 | 32           | 6           | 10          | -10        | 19.67        |
| DZ                         | 978 | 32           | 6           | 10          | -15        | 0            |
|                            | 979 | 32           | 6           | 10          | -15        | 7.36         |
|                            | 980 | 32           | 6           | 10          | -15        | 14.71        |
|                            | 981 | 32           | 6           | 10          | -15        | 19.67        |
| DZ                         | 982 | 32           | 6           | 20          | 0          | 0            |
|                            | 983 | 32           | 6           | 20          | 0          | 7.36         |
|                            | 984 | 32           | 6           | 20          | 0          | 14.72        |
|                            | 985 | 32           | 6           | 20          | 0          | 19.68        |
| DZ                         | 986 | 32           | 6           | 20          | 5          | 0            |
|                            | 987 | 32           | 6           | 20          | 5          | 7.36         |
|                            | 988 | 32           | 6           | 20          | 5          | 14.71        |
|                            | 989 | 32           | 6           | 20          | 5          | 19.68        |
| DZ                         | 990 | 32           | 6           | 20          | 10         | 0            |
|                            | 991 | 32           | 6           | 20          | 10         | 7.36         |
|                            | 992 | 32           | 6           | 20          | 10         | 14.71        |

\* Indicates model was close to heave stop

TABLE B.15 CHRONOLOGICAL RUN DIRECTORY

|    | Run                     | Radius<br>ft       | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps |
|----|-------------------------|--------------------|-------------|-------------|------------|--------------|
|    | 10 Degree Deadrise Hull |                    |             |             |            |              |
|    | 993                     | 32                 | 6           | 20          | 10         | 19.68        |
| DZ | 994                     | 32                 | 6           | 20          | -5         | 0            |
|    | 995                     | 32                 | 6           | 20          | -5         | 7.36         |
|    | 996                     | 32                 | 6           | 20          | -5         | 14.71        |
|    | 997                     | 32                 | 6           | 20          | -5         | 19.68        |
| DZ | 998                     | 32                 | 6           | 20          | -10        | 0            |
|    | 999                     | 32                 | 6           | 20          | -10        | 7.36         |
|    | 1000                    | 32                 | 6           | 20          | -10        | 14.72        |
|    | 1001                    | 32                 | 6           | 20          | -10        | 19.69        |
| DZ | 1002                    | 32                 | 6           | 20          | -15        | 0            |
|    | 1003                    | 32                 | 6           | 20          | -15        | 7.36         |
|    | 1004                    | 32                 | 6           | 20          | -15        | 14.71        |
|    | 1005                    | 32                 | 6           | 20          | -15        | 19.69        |
| DZ | 1006                    | 32                 | 6           | 20          | 15         | 0            |
|    | 1007                    | 32                 | 6           | 20          | 15         | 7.34         |
|    | 1008                    | 32                 | 6           | 20          | 15         | 14.67        |
|    | 1009                    | 32                 | 6           | 20          | 15         | 19.62        |
|    | 1010                    | 32                 | 6           | 20          | 10         | 19.61        |
| DZ | 1011                    | 32                 | 6           | -10         | 0          | 0            |
|    | 1012                    | 32                 | 6           | -10         | 0          | 7.34         |
|    | 1013                    | 32                 | 6           | -10         | 0          | 14.67        |
|    | 1014                    | 32                 | 6           | -10         | 0          | 19.63        |
| DZ | 1015                    | 32                 | 6           | -10         | 10         | 0            |
|    | 1016                    | 32                 | 6           | -10         | 10         | 7.34         |
|    | 1017                    | 32                 | 6           | -10         | 10         | 14.67        |
|    | 1018                    | 32                 | 6           | -10         | 10         | 19.62        |
| DZ | 1019                    | 32                 | 6           | -10         | 15         | 0            |
|    | 1020                    | 32                 | 6           | -10         | 15         | 7.34         |
|    | 1021                    | 32                 | 6           | -10         | 15         | 14.67        |
|    | 1022                    | 32                 | 6           | -10         | 15         | 19.63        |
|    | 1023-1032               | Calibration checks |             |             |            |              |
| DZ | 1033                    | 32                 | 6           | -10         | 0          | 0            |
|    | 1034                    | 32                 | 6           | -10         | 0          | 7.42         |
| DZ | 1035                    | 32                 | 6           | -10         | 15         | 0            |
|    | 1036                    | 32                 | 6           | -10         | 15         | 19.62        |
|    | 1037                    | 32                 | 6           | -10         | 15         | 14.66        |
|    | 1038                    | 32                 | 6           | -10         | 15         | 7.36         |
|    | 1039                    | 32                 | 6           | -10         | 5          | 7.36         |
| DZ | 1040                    | 32                 | 6           | -10         | 5          | 0            |
|    | 1041                    | 32                 | 6           | -10         | 5          | 14.67        |
|    | 1042                    | 32                 | 6           | -10         | 5          | 19.61        |
|    | 1043                    | 32                 | 6           | -10         | 0          | 19.61        |
| DZ | 1044                    | 32                 | 6           | -10         | -5         | 0            |
|    | 1045                    | 32                 | 6           | -10         | -5         | 7.36         |
| DR | 1046                    | 32                 | 6           | -10         | -5         | 0            |
|    | 1047                    | 32                 | 6           | -10         | -5         | 14.71        |
|    | 1048                    | 32                 | 6           | -10         | -5         | 19.64        |
| DZ | 1049                    | 32                 | 6           | -10         | -10        | 0            |
|    | 1050                    | 32                 | 6           | -10         | -10        | 7.36         |
|    | 1051                    | 32                 | 6           | -10         | -10        | 14.74        |

\* Indicates model was close to heave stop

TABLE B.16 CHRONOLOGICAL RUN DIRECTORY

| Run                     | Radius<br>ft | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps |
|-------------------------|--------------|-------------|-------------|------------|--------------|
| 10 Degree Deadrise Hull |              |             |             |            |              |
| 1052                    | 32           | 6           | -10         | -10        | 19.64        |
| DZ 1053                 | 32           | 6           | -10         | -15        | 0            |
| 1054                    | 32           | 6           | -10         | -15        | 7.35         |
| 1055                    | 32           | 6           | -10         | -15        | 14.72        |
| 1056                    | 32           | 6           | -10         | -15        | 19.64        |
| 1057                    | 32           | 6           | -10         | 0          | 14.67        |

End of 10 degree hull at 32 ft radius

Start of 20 Degree Deadrise Hull Straight Course

1058-1382 Calibration checks and runs without spray rails

Spray rails added to hull

|    |        |     |   |     |    |       |
|----|--------|-----|---|-----|----|-------|
| DZ | 1383   | INF | 3 | -10 | 15 | 0     |
|    | 1384 * | INF | 3 | -10 | 15 | 19.65 |
|    | 1385   | INF | 3 | -10 | 10 | 19.64 |
|    | 1386   | INF | 3 | -10 | 13 | 19.66 |
| DR | 1387   | INF | 3 | -10 | 15 | 0     |
|    | 1388   | INF | 3 | -10 | 15 | 14.74 |
| DZ | 1389   | INF | 3 | -10 | 10 | 0     |
|    | 1390   | INF | 3 | -10 | 10 | 7.37  |
|    | 1391   | INF | 3 | -10 | 10 | 14.72 |
| DZ | 1392   | INF | 3 | -10 | 5  | 0     |
|    | 1393   | INF | 3 | -10 | 5  | 7.37  |
|    | 1394   | INF | 3 | -10 | 5  | 14.75 |
|    | 1395   | INF | 3 | -10 | 5  | 19.66 |
| DZ | 1396   | INF | 3 | -10 | 0  | 0     |
|    | 1397   | INF | 3 | -10 | 0  | 7.36  |
|    | 1398   | INF | 3 | -10 | 0  | 14.73 |
|    | 1399   | INF | 3 | -10 | 0  | 19.66 |
|    | 1400   | INF | 3 | -10 | 13 | 14.73 |
| DZ | 1401   | INF | 3 | 0   | 0  | 0     |
| DR | 1402   | INF | 3 | 0   | 0  | 0     |
| DR | 1403   | INF | 3 | 0   | 0  | 0     |
| DZ | 1404   | INF | 3 | 0   | 0  | 0     |
|    | 1405   | INF | 3 | 0   | 0  | 7.36  |
|    | 1406   | INF | 3 | 0   | 0  | 14.74 |
|    | 1407   | INF | 3 | 0   | 0  | 19.63 |
| DZ | 1408   | INF | 3 | 0   | 5  | 0     |
|    | 1409   | INF | 3 | 0   | 5  | 7.37  |
|    | 1410   | INF | 3 | 0   | 5  | 14.73 |
|    | 1411   | INF | 3 | 0   | 5  | 19.64 |
| DZ | 1412   | INF | 3 | 0   | 10 | 0     |
|    | 1413   | INF | 3 | 0   | 10 | 7.37  |
|    | 1414   | INF | 3 | 0   | 10 | 14.72 |
|    | 1415   | INF | 3 | 0   | 10 | 19.64 |
| DZ | 1416   | INF | 3 | 0   | 15 | 0     |
|    | 1417   | INF | 3 | 0   | 15 | 7.37  |

\* Indicates model was close to heave stop



TABLE B.17 CHRONOLOGICAL RUN DIRECTORY

| Run                     | Radius<br>ft       | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps |
|-------------------------|--------------------|-------------|-------------|------------|--------------|
| 20 Degree Deadrise Hull |                    |             |             |            |              |
| 1418                    | INF                | 3           | 0           | 15         | 14.74        |
| 1419                    | INF                | 3           | 0           | 15         | 19.68        |
| 1420-1433               | Calibration checks |             |             |            |              |
| DR 1434                 | INF                | 3           | 10          | 0          | 0            |
| DZ 1435                 | INF                | 3           | 10          | 0          | 0            |
| 1436                    | INF                | 3           | 10          | 0          | 7.37         |
| 1437                    | INF                | 3           | 10          | 0          | 14.75        |
| 1438                    | INF                | 3           | 10          | 0          | 19.66        |
| DR 1439                 | INF                | 3           | 10          | 0          | 0            |
| 1440                    | INF                | 3           | 10          | 5          | 7.37         |
| DZ 1441                 | INF                | 3           | 10          | 5          | 0            |
| 1442                    | INF                | 3           | 10          | 5          | 14.77        |
| 1443                    | INF                | 3           | 10          | 5          | 19.60        |
| DZ 1444                 | INF                | 3           | 10          | 10         | 0            |
| 1445                    | INF                | 3           | 10          | 10         | 7.37         |
| 1446                    | INF                | 3           | 10          | 10         | 14.72        |
| 1447                    | INF                | 3           | 10          | 10         | 19.69        |
| DZ 1448                 | INF                | 3           | 10          | 15         | 0            |
| 1449                    | INF                | 3           | 10          | 15         | 7.37         |
| 1450                    | INF                | 3           | 10          | 15         | 14.73        |
| 1451                    | INF                | 3           | 10          | 15         | 19.64        |
| DR 1452                 | INF                | 3           | 20          | 0          | 0            |
| DR 1453                 | INF                | 3           | 0           | 0          | 0            |
| DR 1454                 | INF                | 3           | 0           | 0          | 0            |
| DR 1455                 | INF                | 3           | 20          | 0          | 0            |
| DZ 1456                 | INF                | 3           | 20          | 0          | 0            |
| 1457                    | INF                | 3           | 20          | 0          | 7.37         |
| 1458                    | INF                | 3           | 20          | 0          | 14.75        |
| 1459                    | INF                | 3           | 20          | 0          | 19.65        |
| DZ 1460                 | INF                | 3           | 20          | 5          | 0            |
| 1461                    | INF                | 3           | 20          | 5          | 7.37         |
| 1462                    | INF                | 3           | 20          | 5          | 14.71        |
| 1463                    | INF                | 3           | 20          | 5          | 19.63        |
| DZ 1464                 | INF                | 3           | 20          | 10         | 0            |
| 1465                    | INF                | 3           | 20          | 10         | 7.36         |
| 1466                    | INF                | 3           | 20          | 10         | 14.73        |
| 1467                    | INF                | 3           | 20          | 10         | 19.65        |
| DZ 1468                 | INF                | 3           | 20          | 15         | 0            |
| 1469                    | INF                | 3           | 20          | 15         | 7.37         |
| 1470                    | INF                | 3           | 20          | 15         | 14.72        |
| 1471                    | INF                | 3           | 20          | 15         | 19.64        |
| DR 1472                 | INF                | 0           | 0           | 0          | 0            |
| DR 1473                 | INF                | 0           | 0           | 0          | 0            |
| DR 1474                 | INF                | 6           | 0           | 0          | 0            |
| DZ 1475                 | INF                | 6           | 0           | 0          | 0            |
| 1476                    | INF                | 6           | 0           | 0          | 7.37         |
| 1477                    | INF                | 6           | 0           | 0          | 14.74        |
| 1478                    | INF                | 6           | 0           | 0          | 19.67        |
| DZ 1479                 | INF                | 6           | 0           | 5          | 0            |
| 1480                    | INF                | 6           | 0           | 5          | 7.37         |

\* Indicates model was close to heave stop

TABLE B.18 CHRONOLOGICAL RUN DIRECTORY

| Run                     | Radius<br>ft       | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps |       |
|-------------------------|--------------------|-------------|-------------|------------|--------------|-------|
| 20 Degree Deadrise Hull |                    |             |             |            |              |       |
|                         | 1481               | INF         | 6           | 0          | 5            | 14.72 |
|                         | 1482               | INF         | 6           | 0          | 5            | 19.63 |
| DZ                      | 1483               | INF         | 6           | 0          | 10           | 0     |
|                         | 1484               | INF         | 6           | 0          | 10           | 7.37  |
|                         | 1485               | INF         | 6           | 0          | 10           | 14.74 |
|                         | 1486               | INF         | 6           | 0          | 10           | 19.62 |
| DZ                      | 1487               | INF         | 6           | 0          | 15           | 0     |
|                         | 1488               | INF         | 6           | 0          | 15           | 7.38  |
|                         | 1489               | INF         | 6           | 0          | 15           | 14.73 |
|                         | 1490               | INF         | 6           | 0          | 15           | 19.64 |
| DR                      | 1491               | INF         | 6           | 0          | 0            | 0     |
| DR                      | 1492               | INF         | 6           | 10         | 0            | 0     |
| DZ                      | 1493               | INF         | 6           | 10         | 0            | 0     |
|                         | 1494               | INF         | 6           | 10         | 0            | 7.37  |
|                         | 1495               | INF         | 6           | 10         | 0            | 14.75 |
|                         | 1496               | INF         | 6           | 10         | 0            | 19.64 |
| DZ                      | 1497               | INF         | 6           | 10         | 5            | 0     |
|                         | 1498               | INF         | 6           | 10         | 5            | 7.36  |
|                         | 1499               | INF         | 6           | 10         | 5            | 14.74 |
|                         | 1500               | INF         | 6           | 10         | 5            | 19.66 |
| DZ                      | 1501               | INF         | 6           | 10         | 10           | 0     |
|                         | 1502               | INF         | 6           | 10         | 10           | 7.37  |
|                         | 1503               | INF         | 6           | 10         | 10           | 14.76 |
|                         | 1504               | INF         | 6           | 10         | 10           | 19.67 |
| DZ                      | 1505               | INF         | 6           | 10         | 15           | 0     |
|                         | 1506               | INF         | 6           | 10         | 15           | 7.37  |
|                         | 1507               | INF         | 6           | 10         | 15           | 14.72 |
|                         | 1508               | INF         | 6           | 10         | 15           | 19.66 |
| 1509-1519               | Calibration checks |             |             |            |              |       |
| DR                      | 1520               | INF         | 6           | 20         | 0            | 0     |
| DZ                      | 1521               | INF         | 6           | 20         | 0            | 0     |
|                         | 1522               | INF         | 6           | 20         | 0            | 7.37  |
|                         | 1523               | INF         | 6           | 20         | 0            | 14.74 |
|                         | 1524               | INF         | 6           | 20         | 0            | 19.64 |
|                         | 1525               | INF         | 6           | 20         | 5            | 7.36  |
| DZ                      | 1526               | INF         | 6           | 20         | 5            | 0     |
|                         | 1527               | INF         | 6           | 20         | 5            | 14.73 |
|                         | 1528               | INF         | 6           | 20         | 5            | 19.64 |
| DZ                      | 1529               | INF         | 6           | 20         | 10           | 0     |
|                         | 1530               | INF         | 6           | 20         | 10           | 7.36  |
|                         | 1531               | INF         | 6           | 20         | 10           | 14.73 |
|                         | 1532               | INF         | 6           | 20         | 10           | 19.68 |
| DZ                      | 1533               | INF         | 6           | 20         | 15           | 0     |
|                         | 1534               | INF         | 6           | 20         | 15           | 7.37  |
|                         | 1535               | INF         | 6           | 20         | 15           | 14.74 |
|                         | 1536               | INF         | 6           | 20         | 15           | 19.64 |
| DR                      | 1537               | INF         | 6           | 20         | 15           | 0     |
| DR                      | 1538               | INF         | 0           | -10        | 0            | 0     |
| DR                      | 1539               | INF         | 6           | -10        | 0            | 0     |
| DZ                      | 1540               | INF         | 6           | -10        | 0            | 0     |

\* Indicates model was close to heave stop

TABLE B.19 CHRONOLOGICAL RUN DIRECTORY

| Run                     | Radius<br>ft | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps |       |
|-------------------------|--------------|-------------|-------------|------------|--------------|-------|
| 20 Degree Deadrise Hull |              |             |             |            |              |       |
|                         | 1541         | INF         | 6           | -10        | 0            | 7.37  |
|                         | 1542         | INF         | 6           | -10        | 0            | 14.74 |
|                         | 1543         | INF         | 6           | -10        | 0            | 19.65 |
| DZ                      | 1544         | INF         | 6           | -10        | 5            | 0     |
|                         | 1545         | INF         | 6           | -10        | 5            | 7.37  |
|                         | 1546         | INF         | 6           | -10        | 5            | 14.73 |
|                         | 1547         | INF         | 6           | -10        | 5            | 19.64 |
| DZ                      | 1548         | INF         | 6           | -10        | 10           | 0     |
|                         | 1549         | INF         | 6           | -10        | 10           | 7.37  |
|                         | 1550         | INF         | 6           | -10        | 10           | 14.73 |
|                         | 1551         | INF         | 6           | -10        | 10           | 19.71 |
| DZ                      | 1552         | INF         | 6           | -10        | 15           | 0     |
|                         | 1553         | INF         | 6           | -10        | 15           | 7.37  |
|                         | 1554         | INF         | 6           | -10        | 15           | 14.73 |
|                         | 1555         | INF         | 6           | -10        | 15           | 19.67 |
| DR                      | 1556         | INF         | 0           | 0          | 15           | 0     |
| DR                      | 1557         | INF         | 0           | 0          | 0            | 0     |
| DZ                      | 1558         | INF         | 0           | 0          | 0            | 0     |
| DR                      | 1559         | INF         | 0           | 0          | 0            | 0     |
|                         | 1560         | INF         | 0           | 0          | 0            | 7.36  |
|                         | 1561         | INF         | 0           | 0          | 0            | 14.79 |
|                         | 1562         | INF         | 0           | 0          | 0            | 19.68 |
| DZ                      | 1563         | INF         | 0           | 0          | 5            | 0     |
|                         | 1564         | INF         | 0           | 0          | 5            | 7.37  |
|                         | 1565         | INF         | 0           | 0          | 5            | 14.75 |
|                         | 1566         | INF         | 0           | 0          | 5            | 19.66 |
| DZ                      | 1567         | INF         | 0           | 0          | 10           | 0     |
|                         | 1568         | INF         | 0           | 0          | 10           | 7.37  |
|                         | 1569 *       | INF         | 0           | 0          | 10           | 14.77 |
|                         | 1570 *       | INF         | 0           | 0          | 10           | 19.67 |
| DZ                      | 1571         | INF         | 0           | 0          | 15           | 0     |
|                         | 1572 *       | INF         | 0           | 0          | 15           | 7.37  |
|                         | 1573 *       | INF         | 0           | 0          | 15           | 14.73 |
|                         | 1574 *       | INF         | 0           | 0          | 15           | 19.67 |
| DR                      | 1575         | INF         | 0           | 0          | 15           | 0     |
| DR                      | 1576         | INF         | 0           | 10         | 0            | 0     |
|                         | 1577         | INF         | 0           | 10         | 0            | 7.37  |
| DZ                      | 1578         | INF         | 0           | 10         | 0            | 0     |
|                         | 1579         | INF         | 0           | 10         | 0            | 14.74 |
|                         | 1580         | INF         | 0           | 10         | 0            | 19.63 |
| DZ                      | 1581         | INF         | 0           | 10         | 5            | 0     |
|                         | 1582         | INF         | 0           | 10         | 5            | 7.37  |
|                         | 1583         | INF         | 0           | 10         | 5            | 14.71 |
|                         | 1584         | INF         | 0           | 10         | 5            | 19.66 |
| DR                      | 1585         | INF         | 0           | 10         | 10           | 0     |
|                         | 1586         | INF         | 0           | 10         | 10           | 7.37  |
| DZ                      | 1587         | INF         | 0           | 10         | 10           | 0     |
|                         | 1588         | INF         | 0           | 10         | 10           | 14.73 |
|                         | 1589         | INF         | 0           | 10         | 10           | 19.65 |
| DZ                      | 1590         | INF         | 0           | 10         | 15           | 0     |

\* Indicates model was close to heave stop

TABLE B.20 CHRONOLOGICAL RUN DIRECTORY

| Run                     | Radius<br>ft       | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps |
|-------------------------|--------------------|-------------|-------------|------------|--------------|
| 20 Degree Deadrise Hull |                    |             |             |            |              |
| 1591                    | INF                | 0           | 10          | 15         | 7.38         |
| 1592 *                  | INF                | 0           | 10          | 15         | 14.73        |
| 1593 *                  | INF                | 0           | 10          | 15         | 19.64        |
| 1594-1604               | Calibration checks |             |             |            |              |
| DR 1605                 | INF                | 0           | 20          | 0          | 0            |
| DZ 1606                 | INF                | 0           | 20          | 0          | 0            |
| 1607                    | INF                | 0           | 20          | 0          | 7.36         |
| 1608                    | INF                | 0           | 20          | 0          | 14.75        |
| 1609                    | INF                | 0           | 20          | 0          | 19.67        |
| DZ 1610                 | INF                | 0           | 20          | 5          | 0            |
| 1611                    | INF                | 0           | 20          | 5          | 7.38         |
| 1612                    | INF                | 0           | 20          | 5          | 14.74        |
| 1613                    | INF                | 0           | 20          | 5          | 19.63        |
| DZ 1614                 | INF                | 0           | 20          | 10         | 0            |
| 1615                    | INF                | 0           | 20          | 10         | 7.37         |
| 1616                    | INF                | 0           | 20          | 10         | 14.73        |
| 1617                    | INF                | 0           | 20          | 10         | 19.65        |
| DZ 1618                 | INF                | 0           | 20          | 15         | 0            |
| 1619                    | INF                | 0           | 20          | 15         | 7.37         |
| 1620                    | INF                | 0           | 20          | 15         | 14.72        |
| 1621                    | INF                | 0           | 20          | 15         | 19.66        |
| DR 1622                 | INF                | 0           | 20          | 15         | 0            |
| DR 1623                 | INF                | 0           | -10         | 0          | 0            |
| DR 1624                 | INF                | 0           | -10         | 0          | 0            |
| DR 1625                 | INF                | 0           | -10         | 0          | 0            |
| DZ 1626                 | INF                | 0           | -10         | 0          | 0            |
| 1627                    | INF                | 0           | -10         | 0          | 7.37         |
| 1628                    | INF                | 0           | -10         | 0          | 14.74        |
| 1629                    | INF                | 0           | -10         | 0          | 19.62        |
| DZ 1630                 | INF                | 0           | -10         | 5          | 0            |
| 1631                    | INF                | 0           | -10         | 5          | 7.39         |
| 1632                    | INF                | 0           | -10         | 5          | 14.73        |
| 1633                    | INF                | 0           | -10         | 5          | 19.61        |
| DZ 1634                 | INF                | 0           | -10         | 10         | 0            |
| 1635                    | INF                | 0           | -10         | 10         | 7.39         |
| 1636 *                  | INF                | 0           | -10         | 10         | 14.76        |
| 1637 *                  | INF                | 0           | -10         | 10         | 19.66        |
| DZ 1638                 | INF                | 0           | -10         | 15         | 0            |
| 1639 *                  | INF                | 0           | -10         | 15         | 7.36         |
| 1640 *                  | INF                | 0           | -10         | 15         | 14.73        |
| DR 1641                 | INF                | 0           | -10         | 15         | 0            |
| DR 1642                 | INF                | 0           | 0           | 15         | 0            |
| DR 1643                 | INF                | -2          | 0           | 15         | 0            |
| DZ 1644                 | INF                | -2          | 0           | 0          | 0            |
| 1645                    | INF                | -2          | 0           | 0          | 7.37         |
| 1646                    | INF                | -2          | 0           | 0          | 14.74        |
| 1647 *                  | INF                | -2          | 0           | 0          | 19.65        |
| 1648                    | INF                | -2          | 0           | 5          | 7.37         |
| DZ 1649                 | INF                | -2          | 0           | 5          | 0            |
| 1650 *                  | INF                | -2          | 0           | 5          | 14.72        |

\* Indicates model was close to heave stop

TABLE B.21 CHRONOLOGICAL RUN DIRECTORY

|                              | Run    | Radius<br>ft | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps |
|------------------------------|--------|--------------|-------------|-------------|------------|--------------|
| 20 Degree Deadrise Hull      |        |              |             |             |            |              |
|                              | 1651 * | INF          | -2          | 0           | 5          | 19.67        |
| DZ                           | 1652   | INF          | -2          | 0           | 10         | 0            |
|                              | 1653   | INF          | -2          | 0           | 10         | 7.36         |
|                              | 1654 * | INF          | -2          | 0           | 10         | 14.73        |
| DZ                           | 1655   | INF          | -2          | 0           | 15         | 0            |
|                              | 1656 * | INF          | -2          | 0           | 15         | 7.37         |
| DR                           | 1657   | INF          | -2          | 0           | 15         | 0            |
| DR                           | 1658   | INF          | -2          | 10          | 0          | 0            |
| DZ                           | 1659   | INF          | -2          | 10          | 0          | 0            |
|                              | 1660   | INF          | -2          | 10          | 0          | 7.37         |
|                              | 1661   | INF          | -2          | 10          | 0          | 14.77        |
|                              | 1662 * | INF          | -2          | 10          | 0          | 19.65        |
| DZ                           | 1663   | INF          | -2          | 10          | 5          | 0            |
|                              | 1664   | INF          | -2          | 10          | 5          | 7.37         |
|                              | 1665   | INF          | -2          | 10          | 5          | 14.74        |
|                              | 1666 * | INF          | -2          | 10          | 5          | 19.66        |
| 1667-1678 Calibration checks |        |              |             |             |            |              |
| DR                           | 1679   | INF          | -2          | 10          | 5          | 0            |
|                              | 1680   | INF          | -2          | 10          | 5          | 14.74        |
|                              | 1681   | INF          | -2          | 10          | 5          | 7.36         |
| DZ                           | 1682   | INF          | -2          | 10          | 10         | 0            |
|                              | 1683   | INF          | -2          | 10          | 10         | 7.36         |
|                              | 1684 * | INF          | -2          | 10          | 10         | 14.74        |
| DR                           | 1685   | INF          | -2          | 10          | 10         | 0            |
|                              | 1686 * | INF          | -2          | 10          | 15         | 7.37         |
| DZ                           | 1687   | INF          | -2          | 10          | 15         | 0            |
|                              | 1688 * | INF          | -2          | 10          | 15         | 14.71        |
| DR                           | 1689   | INF          | -2          | 10          | 15         | 0            |
| DR                           | 1690   | INF          | -2          | 20          | 0          | 0            |
| DZ                           | 1691   | INF          | -2          | 20          | 0          | 0            |
|                              | 1692   | INF          | -2          | 20          | 0          | 7.37         |
|                              | 1693   | INF          | -2          | 20          | 0          | 14.74        |
|                              | 1694 * | INF          | -2          | 20          | 0          | 19.63        |
| DZ                           | 1695   | INF          | -2          | 20          | 5          | 0            |
|                              | 1696   | INF          | -2          | 20          | 5          | 7.36         |
|                              | 1697   | INF          | -2          | 20          | 5          | 14.73        |
|                              | 1698 * | INF          | -2          | 20          | 5          | 19.65        |
|                              | 1699   | INF          | -2          | 20          | 10         | 7.36         |
| DZ                           | 1700   | INF          | -2          | 20          | 10         | 0            |
|                              | 1701 * | INF          | -2          | 20          | 10         | 14.73        |
| DZ                           | 1702   | INF          | -2          | 20          | 15         | 0            |
|                              | 1703 * | INF          | -2          | 20          | 15         | 7.36         |
| DR                           | 1704   | INF          | -2          | 20          | 15         | 0            |
| DR                           | 1705   | INF          | -2          | -10         | 0          | 0            |
| DR                           | 1706   | INF          | -2          | 0           | 0          | 0            |
| DR                           | 1707   | INF          | -2          | -10         | 0          | 0            |
| DZ                           | 1708   | INF          | -2          | -10         | 0          | 0            |
|                              | 1709   | INF          | -2          | -10         | 0          | 7.36         |
|                              | 1710   | INF          | -2          | -10         | 0          | 14.74        |
|                              | 1711 * | INF          | -2          | -10         | 0          | 19.68        |

\* Indicates model was close to heave stop

TABLE B.22 CHRONOLOGICAL RUN DIRECTORY

|                         | Run    | Radius<br>ft | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps |
|-------------------------|--------|--------------|-------------|-------------|------------|--------------|
| 20 Degree Deadrise Hull |        |              |             |             |            |              |
| DZ                      | 1712   | INF          | -2          | -10         | 5          | 0            |
|                         | 1713   | INF          | -2          | -10         | 5          | 7.36         |
|                         | 1714 * | INF          | -2          | -10         | 5          | 14.72        |
| DZ                      | 1715   | INF          | -2          | -10         | 10         | 0            |
|                         | 1716 * | INF          | -2          | -10         | 10         | 7.36         |
| DZ                      | 1717   | INF          | -2          | -10         | 15         | 0            |
|                         | 1718 * | INF          | -2          | -10         | 15         | 7.37         |
| DR                      | 1719   | INF          | -2          | 0           | 10         | 0            |
| DR                      | 1720   | INF          | -2          | 0           | 10         | 0            |
|                         | 1721 * | INF          | -2          | 0           | 10         | 14.72        |

End of 20 degree deadrise dull straight course

Start of 10 Degree Deadrise Hull Straight Course

| 1722-1757 Calibration checks |        |              |             |             |            |              |
|------------------------------|--------|--------------|-------------|-------------|------------|--------------|
|                              | Run    | Radius<br>ft | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps |
| DR                           | 1758   | INF          | 0           | 0           | 0          | 0            |
| DR                           | 1759   | INF          | 0           | 0           | 0          | 0            |
| DZ                           | 1760   | INF          | 0           | 0           | 0          | 0            |
|                              | 1761   | INF          | 0           | 0           | 0          | 7.37         |
|                              | 1762   | INF          | 0           | 0           | 0          | 14.74        |
|                              | 1763   | INF          | 0           | 0           | 0          | 19.66        |
| DZ                           | 1764   | INF          | 0           | 0           | 5          | 0            |
|                              | 1765   | INF          | 0           | 0           | 5          | 7.37         |
|                              | 1766   | INF          | 0           | 0           | 5          | 14.75        |
|                              | 1767   | INF          | 0           | 0           | 5          | 19.67        |
| DZ                           | 1768   | INF          | 0           | 0           | 10         | 0            |
|                              | 1769   | INF          | 0           | 0           | 10         | 7.39         |
|                              | 1770 * | INF          | 0           | 0           | 10         | 14.74        |
| DR                           | 1771   | INF          | 0           | 0           | 10         | 0            |
|                              | 1772 * | INF          | 0           | 0           | 10         | 19.62        |
| DZ                           | 1773   | INF          | 0           | 0           | 15         | 0            |
|                              | 1774   | INF          | 0           | 0           | 15         | 7.37         |
|                              | 1775 * | INF          | 0           | 0           | 15         | 14.73        |
|                              | 1776 * | INF          | 0           | 0           | 15         | 19.64        |
| DR                           | 1777   | INF          | 0           | 0           | 15         | 0            |
| DR                           | 1778   | INF          | 0           | 10          | 0          | 0            |
| DZ                           | 1779   | INF          | 0           | 10          | 0          | 0            |
|                              | 1780   | INF          | 0           | 10          | 0          | 7.37         |
|                              | 1781   | INF          | 0           | 10          | 0          | 14.74        |
|                              | 1782   | INF          | 0           | 10          | 0          | 19.65        |
| DZ                           | 1783   | INF          | 0           | 10          | 5          | 0            |
|                              | 1784   | INF          | 0           | 10          | 5          | 7.37         |
|                              | 1785   | INF          | 0           | 10          | 5          | 14.74        |
|                              | 1786   | INF          | 0           | 10          | 5          | 19.62        |
| DZ                           | 1787   | INF          | 0           | 10          | 10         | 0            |
|                              | 1788   | INF          | 0           | 10          | 10         | 7            |
|                              | 1789   | INF          | 0           | 10          | 10         | 7            |
|                              | 1790   | INF          | 0           | 10          | 10         | 14.73        |
|                              | 1791   | INF          | 0           | 10          | 10         | 19.65        |

\* Indicates model was close to heave stop

TABLE B.23 CHRONOLOGICAL RUN DIRECTORY

|                              | Run  | Radius<br>ft | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps |
|------------------------------|------|--------------|-------------|-------------|------------|--------------|
| 10 Degree Deadrise Hull      |      |              |             |             |            |              |
| DZ                           | 1792 | INF          | 0           | 10          | 15         | 0            |
|                              | 1793 | INF          | 0           | 10          | 15         | 7.37         |
|                              | 1794 | INF          | 0           | 10          | 15         | 14.75        |
|                              | 1795 | INF          | 0           | 10          | 15         | 19.66        |
| 1796-1807 Calibration checks |      |              |             |             |            |              |
| DR                           | 1808 | INF          | 0           | 21          | 0          | 0            |
| DZ                           | 1809 | INF          | 0           | 21          | 0          | 0            |
|                              | 1810 | INF          | 0           | 21          | 0          | 7.37         |
|                              | 1811 | INF          | 0           | 21          | 0          | 14.73        |
|                              | 1812 | INF          | 0           | 21          | 0          | 19.63        |
| DR                           | 1813 | INF          | 0           | 21          | 0          | 0            |
| DZ                           | 1814 | INF          | 0           | 21          | 5          | 0            |
|                              | 1815 | INF          | 0           | 21          | 5          | 7.36         |
|                              | 1816 | INF          | 0           | 21          | 5          | 14.71        |
| DR                           | 1817 | INF          | 0           | 21          | 5          | 0            |
|                              | 1818 | INF          | 0           | 21          | 5          | 19.64        |
| DZ                           | 1819 | INF          | 0           | 21          | 10         | 0            |
|                              | 1820 | INF          | 0           | 21          | 10         | 7.36         |
|                              | 1821 | INF          | 0           | 21          | 10         | 14.74        |
|                              | 1822 | INF          | 0           | 21          | 10         | 19.64        |
| DZ                           | 1823 | INF          | 0           | 21          | 15         | 0            |
|                              | 1824 | INF          | 0           | 21          | 15         | 7.37         |
|                              | 1825 | INF          | 0           | 21          | 15         | 14.74        |
|                              | 1826 | INF          | 0           | 21          | 15         | 19.62        |
| DR                           | 1827 | INF          | 0           | 21          | 15         | 0            |
| DR                           | 1828 | INF          | 0           | -10         | 0          | 0            |
| DZ                           | 1829 | INF          | 0           | -10         | 0          | 0            |
|                              | 1830 | INF          | 0           | -10         | 0          | 7.37         |
|                              | 1831 | INF          | 0           | -10         | 0          | 14.75        |
|                              | 1832 | INF          | 0           | -10         | 0          | 19.66        |
| DZ                           | 1833 | INF          | 0           | -10         | 5          | 0            |
|                              | 1834 | INF          | 0           | -10         | 5          | 7.38         |
|                              | 1835 | INF          | 0           | -10         | 5          | 14.73        |
|                              | 1836 | INF          | 0           | -10         | 5          | 19.63        |
| DZ                           | 1837 | INF          | 0           | -10         | 10         | 0            |
| DR                           | 1838 | INF          | 0           | -10         | 10         | 0            |
| DR                           | 1839 | INF          | 0           | -10         | 10         | 0            |
|                              | 1840 | INF          | 0           | -10         | 10         | 7.36         |
|                              | 1841 | INF          | 0           | -10         | 10         | 14.77        |
|                              | 1842 | INF          | 0           | -10         | 10         | 19.65        |
| DZ                           | 1843 | INF          | 0           | -10         | 15         | 0            |
|                              | 1844 | INF          | 0           | -10         | 15         | 7.37         |
|                              | 1845 | INF          | 0           | -10         | 15         | 14.73        |
|                              | 1846 | INF          | 0           | -10         | 15         | 19.69        |
| DR                           | 1847 | INF          | 0           | -10         | 15         | 0            |
| DR                           | 1848 | INF          | 0           | 0           | 0          | 0            |
| DR                           | 1849 | INF          | 3           | 0           | 0          | 0            |
| DZ                           | 1850 | INF          | 3           | 0           | 0          | 0            |
|                              | 1851 | INF          | 3           | 0           | 0          | 7.37         |
|                              | 1852 | INF          | 3           | 0           | 0          | 14.74        |

\* Indicates model was close to heave stop

TABLE B.24 CHRONOLOGICAL RUN DIRECTORY

|                              | Run  | Radius<br>ft | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps |
|------------------------------|------|--------------|-------------|-------------|------------|--------------|
| 10 Degree Deadrise Hull      |      |              |             |             |            |              |
|                              | 1853 | INF          | 3           | 0           | 0          | 19.68        |
| DZ                           | 1854 | INF          | 3           | 0           | 0          | 0            |
|                              | 1855 | INF          | 3           | 0           | 0          | 7.37         |
| DZ                           | 1856 | INF          | 3           | 0           | 5          | 0            |
|                              | 1857 | INF          | 3           | 0           | 5          | 7.37         |
|                              | 1858 | INF          | 3           | 0           | 5          | 14.75        |
|                              | 1859 | INF          | 3           | 0           | 5          | 19.65        |
| DZ                           | 1860 | INF          | 3           | 0           | 10         | 0            |
|                              | 1861 | INF          | 3           | 0           | 10         | 7.37         |
|                              | 1862 | INF          | 3           | 0           | 10         | 14.73        |
|                              | 1863 | INF          | 3           | 0           | 10         | 19.64        |
| DZ                           | 1864 | INF          | 3           | 0           | 15         | 0            |
|                              | 1865 | INF          | 3           | 0           | 15         | 7.37         |
|                              | 1866 | INF          | 3           | 0           | 15         | 14.73        |
|                              | 1867 | INF          | 3           | 0           | 15         | 19.63        |
| DR                           | 1868 | INF          | 3           | 0           | 15         | 0            |
| 1869-1878 Calibration checks |      |              |             |             |            |              |
| DR                           | 1879 | INF          | 3           | 10          | 0          | 0            |
| DZ                           | 1880 | INF          | 3           | 10          | 0          | 0            |
|                              | 1881 | INF          | 3           | 10          | 0          | 7.38         |
|                              | 1882 | INF          | 3           | 10          | 0          | 14.72        |
|                              | 1883 | INF          | 3           | 10          | 0          | 19.64        |
| DZ                           | 1884 | INF          | 3           | 10          | 5          | 0            |
|                              | 1885 | INF          | 3           | 10          | 5          | 7.37         |
|                              | 1886 | INF          | 3           | 10          | 5          | 14.73        |
|                              | 1887 | INF          | 3           | 10          | 5          | 19.69        |
| DZ                           | 1888 | INF          | 3           | 10          | 10         | 0            |
|                              | 1889 | INF          | 3           | 10          | 10         | 7.37         |
|                              | 1890 | INF          | 3           | 10          | 10         | 14.73        |
|                              | 1891 | INF          | 3           | 10          | 10         | 14.73        |
| DR                           | 1892 | INF          | 3           | 10          | 10         | 0            |
|                              | 1893 | INF          | 3           | 10          | 10         | 19.65        |
| DZ                           | 1894 | INF          | 3           | 10          | 15         | 0            |
|                              | 1895 | INF          | 3           | 10          | 15         | 7.36         |
|                              | 1896 | INF          | 3           | 10          | 15         | 14.77        |
|                              | 1897 | INF          | 3           | 10          | 15         | 19.63        |
| DR                           | 1898 | INF          | 3           | 10          | 15         | 0            |
| DR                           | 1899 | INF          | 3           | 21          | 0          | 0            |
| DZ                           | 1900 | INF          | 3           | 21          | 0          | 0            |
|                              | 1901 | INF          | 3           | 21          | 0          | 7.37         |
|                              | 1902 | INF          | 3           | 21          | 0          | 14.73        |
|                              | 1903 | INF          | 3           | 21          | 0          | 19.63        |
| DZ                           | 1904 | INF          | 3           | 21          | 5          | 0            |
|                              | 1905 | INF          | 3           | 21          | 5          | 7.37         |
|                              | 1906 | INF          | 3           | 21          | 5          | 14.74        |
|                              | 1907 | INF          | 3           | 21          | 5          | 19.63        |
| DZ                           | 1908 | INF          | 3           | 21          | 10         | 0            |
|                              | 1909 | INF          | 3           | 21          | 10         | 7.37         |
|                              | 1910 | INF          | 3           | 21          | 10         | 14.74        |
|                              | 1911 | INF          | 3           | 21          | 10         | 19.64        |

\* Indicates model was close to heave stop



TABLE B.25 CHRONOLOGICAL RUN DIRECTORY

| Run                          | Radius<br>ft | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps |       |
|------------------------------|--------------|-------------|-------------|------------|--------------|-------|
| 10 Degree Deadrise Hull      |              |             |             |            |              |       |
| DZ                           | 1912         | INF         | 3           | 21         | 15           | 0     |
|                              | 1913         | INF         | 3           | 21         | 15           | 7.37  |
|                              | 1914         | INF         | 3           | 21         | 15           | 14.73 |
|                              | 1915         | INF         | 3           | 21         | 15           | 19.67 |
| DR                           | 1916         | INF         | 3           | 21         | 15           | 0     |
| DR                           | 1917         | INF         | 3           | -11        | 0            | 0     |
| DZ                           | 1918         | INF         | 3           | -11        | 0            | 0     |
|                              | 1919         | INF         | 3           | -11        | 0            | 7.37  |
|                              | 1920         | INF         | 3           | -11        | 0            | 14.75 |
|                              | 1921         | INF         | 3           | -11        | 0            | 19.65 |
| DZ                           | 1922         | INF         | 3           | -11        | 5            | 0     |
|                              | 1923         | INF         | 3           | -11        | 5            | 7.37  |
|                              | 1924         | INF         | 3           | -11        | 5            | 14.74 |
|                              | 1925         | INF         | 3           | -11        | 5            | 19.66 |
| DZ                           | 1926         | INF         | 3           | -11        | 10           | 0     |
|                              | 1927         | INF         | 3           | -11        | 10           | 7.37  |
|                              | 1928         | INF         | 3           | -11        | 10           | 14.77 |
|                              | 1929         | INF         | 3           | -11        | 10           | 19.64 |
| DZ                           | 1930         | INF         | 3           | -11        | 15           | 0     |
|                              | 1931         | INF         | 3           | -11        | 15           | 7.38  |
| DR                           | 1932         | INF         | 3           | -11        | 15           | 0     |
|                              | 1933         | INF         | 3           | -11        | 15           | 14.75 |
|                              | 1934         | INF         | 3           | -11        | 15           | 19.69 |
| DR                           | 1935         | INF         | 3           | -11        | 15           | 0     |
| DR                           | 1936         | INF         | 3           | -10        | 15           | 0     |
| DR                           | 1937         | INF         | 3           | 21         | 15           | 0     |
| DR                           | 1938         | INF         | 3           | 20         | 15           | 0     |
| DR                           | 1939         | INF         | 3           | 0          | 15           | 0     |
| DR                           | 1940         | INF         | 3           | 0          | 15           | 0     |
| 1941-1961 Calibration checks |              |             |             |            |              |       |
| DR                           | 1962         | INF         | 6           | 0          | 0            | 0     |
| DZ                           | 1963         | INF         | 6           | 0          | 0            | 0     |
|                              | 1964         | INF         | 6           | 0          | 0            | 7.37  |
|                              | 1965         | INF         | 6           | 0          | 0            | 14.73 |
|                              | 1966         | INF         | 6           | 0          | 0            | 19.65 |
| DZ                           | 1967         | INF         | 6           | 0          | 5            | 0     |
| DR                           | 1968         | INF         | 6           | 0          | 5            | 0     |
|                              | 1969         | INF         | 6           | 0          | 5            | 7.37  |
|                              | 1970         | INF         | 6           | 0          | 5            | 14.73 |
|                              | 1971         | INF         | 6           | 0          | 5            | 19.64 |
| DZ                           | 1972         | INF         | 6           | 0          | 10           | 0     |
|                              | 1973         | INF         | 6           | 0          | 10           | 7.37  |
|                              | 1974         | INF         | 6           | 0          | 10           | 14.74 |
|                              | 1975         | INF         | 6           | 0          | 10           | 19.64 |
| DZ                           | 1976         | INF         | 6           | 0          | 15           | 0     |
|                              | 1977         | INF         | 6           | 0          | 15           | 7.36  |
|                              | 1978         | INF         | 6           | 0          | 15           | 14.73 |
|                              | 1979         | INF         | 6           | 0          | 15           | 19.64 |
| DR                           | 1980         | INF         | 6           | 0          | 15           | 0     |
| DR                           | 1981         | INF         | 6           | 10         | 0            | 0     |

\* Indicates model was close to heave stop

TABLE B.26 CHRONOLOGICAL RUN DIRECTORY

|                         | Run  | Radius<br>ft | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps |
|-------------------------|------|--------------|-------------|-------------|------------|--------------|
| 10 Degree Deadrise Hull |      |              |             |             |            |              |
| DZ                      | 1982 | INF          | 6           | 10          | 0          | 0            |
|                         | 1983 | INF          | 6           | 10          | 0          | 7.37         |
|                         | 1984 | INF          | 6           | 10          | 0          | 14.75        |
|                         | 1985 | INF          | 6           | 10          | 0          | 19.63        |
| DZ                      | 1986 | INF          | 6           | 10          | 5          | 0            |
|                         | 1987 | INF          | 6           | 10          | 5          | 7.36         |
|                         | 1988 | INF          | 6           | 10          | 5          | 14.73        |
|                         | 1989 | INF          | 6           | 10          | 5          | 19.65        |
| DZ                      | 1990 | INF          | 6           | 10          | 10         | 0            |
|                         | 1991 | INF          | 6           | 10          | 10         | 7.37         |
|                         | 1992 | INF          | 6           | 10          | 10         | 14.73        |
| DZ                      | 1993 | INF          | 6           | 10          | 10         | 0            |
|                         | 1994 | INF          | 6           | 10          | 10         | 19.67        |
| DZ                      | 1995 | INF          | 6           | 10          | 15         | 0            |
|                         | 1996 | INF          | 6           | 10          | 15         | 7.37         |
|                         | 1997 | INF          | 6           | 10          | 15         | 14.73        |
|                         | 1998 | INF          | 6           | 10          | 15         | 19.64        |
| DR                      | 1999 | INF          | 6           | 10          | 0          | 0            |
| DR                      | 2000 | INF          | 6           | 20          | 0          | 0            |
| DR                      | 2001 | INF          | 6           | 20          | 0          | 0            |
| DZ                      | 2002 | INF          | 6           | 20          | 0          | 0            |
|                         | 2003 | INF          | 6           | 20          | 0          | 7.37         |
|                         | 2004 | INF          | 6           | 20          | 0          | 14.74        |
|                         | 2005 | INF          | 6           | 20          | 0          | 19.63        |
| DR                      | 2006 | INF          | 6           | 20          | 5          | 0            |
| DZ                      | 2007 | INF          | 6           | 20          | 5          | 0            |
|                         | 2008 | INF          | 6           | 20          | 5          | 7.37         |
|                         | 2009 | INF          | 6           | 20          | 5          | 14.73        |
|                         | 2010 | INF          | 6           | 20          | 5          | 19.68        |
| DZ                      | 2011 | INF          | 6           | 20          | 10         | 0            |
|                         | 2012 | INF          | 6           | 20          | 10         | 7.37         |
|                         | 2013 | INF          | 6           | 20          | 10         | 14.72        |
|                         | 2014 | INF          | 6           | 20          | 10         | 19.68        |
| DZ                      | 2015 | INF          | 6           | 20          | 15         | 0            |
|                         | 2016 | INF          | 6           | 20          | 15         | 7.37         |
|                         | 2017 | INF          | 6           | 20          | 15         | 14.73        |
|                         | 2018 | INF          | 6           | 20          | 15         | 19.66        |
| DR                      | 2019 | INF          | 6           | 20          | 0          | 0            |
| DR                      | 2020 | INF          | 6           | 0           | 0          | 0            |
| DR                      | 2021 | INF          | 6           | -10         | 0          | 0            |
| DZ                      | 2022 | INF          | 6           | -10         | 0          | 0            |
|                         | 2023 | INF          | 6           | -10         | 0          | 7.37         |
|                         | 2024 | INF          | 6           | -10         | 0          | 14.74        |
|                         | 2025 | INF          | 6           | -10         | 0          | 19.64        |
| DZ                      | 2026 | INF          | 6           | -10         | 5          | 0            |
|                         | 2027 | INF          | 6           | -10         | 5          | 7.37         |
|                         | 2028 | INF          | 6           | -10         | 5          | 14.76        |
|                         | 2029 | INF          | 6           | -10         | 5          | 19.67        |
| DZ                      | 2030 | INF          | 6           | -10         | 10         | 0            |
|                         | 2031 | INF          | 6           | -10         | 10         | 7.37         |

\* Indicates model was close to heave stop

TABLE B.27 CHRONOLOGICAL RUN DIRECTORY

| Run                          | Radius<br>ft | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps |       |
|------------------------------|--------------|-------------|-------------|------------|--------------|-------|
| 10 Degree Deadrise Hull      |              |             |             |            |              |       |
|                              | 2032         | INF         | 6           | -10        | 10           | 14.72 |
|                              | 2033         | INF         | 6           | -10        | 10           | 19.62 |
| DZ                           | 2034         | INF         | 6           | -10        | 15           | 0     |
|                              | 2035         | INF         | 6           | -10        | 15           | 7.37  |
|                              | 2036         | INF         | 6           | -10        | 15           | 14.73 |
|                              | 2037         | INF         | 6           | -10        | 15           | 19.63 |
| DR                           | 2038         | INF         | 6           | -10        | 0            | 0     |
| DR                           | 2039         | INF         | -2          | 0          | 0            | 0     |
| DR                           | 2040         | INF         | -2          | 0          | 0            | 0     |
| 2041-2057 Calibration checks |              |             |             |            |              |       |
| DR                           | 2058         | INF         | -2          | 0          | 0            | 0     |
| DZ                           | 2059         | INF         | -2          | 0          | 0            | 0     |
|                              | 2060         | INF         | -2          | 0          | 0            | 7.36  |
| DR                           | 2061         | INF         | -2          | 0          | 0            | 0     |
| DR                           | 2062         | INF         | -2          | 0          | 0            | 0     |
|                              | 2063         | INF         | -2          | 0          | 0            | 7.36  |
|                              | 2064         | INF         | -2          | 0          | 0            | 14.74 |
| DZ                           | 2065         | INF         | -2          | 0          | 5            | 0     |
|                              | 2066         | INF         | -2          | 0          | 5            | 7.37  |
|                              | 2067         | INF         | -2          | 0          | 5            | 14.74 |
|                              | 2068         | INF         | -2          | 0          | 10           | 7.36  |
| DZ                           | 2069         | INF         | -2          | 0          | 10           | 0     |
| DZ                           | 2070         | INF         | -2          | 0          | 15           | 0     |
|                              | 2071 *       | INF         | -2          | 0          | 15           | 7.36  |
| DR                           | 2072         | INF         | -2          | 0          | 15           | 0     |
| DR                           | 2073         | INF         | -2          | 10         | 15           | 0     |
| DZ                           | 2074         | INF         | -2          | 10         | 0            | 0     |
|                              | 2075         | INF         | -2          | 10         | 0            | 7.37  |
|                              | 2076         | INF         | -2          | 10         | 0            | 14.73 |
|                              | 2077         | INF         | -2          | 10         | 0            | 19.68 |
| DZ                           | 2078         | INF         | -2          | 10         | 5            | 0     |
|                              | 2079         | INF         | -2          | 10         | 5            | 7.36  |
|                              | 2080         | INF         | -2          | 10         | 5            | 14.74 |
| DZ                           | 2081         | INF         | -2          | 10         | 10           | 0     |
|                              | 2082         | INF         | -2          | 10         | 10           | 7.37  |
| DZ                           | 2083         | INF         | -2          | 10         | 15           | 0     |
|                              | 2084         | INF         | -2          | 10         | 15           | 7.37  |
| DR                           | 2085         | INF         | -2          | 10         | 15           | 0     |
| DR                           | 2086         | INF         | -2          | 0          | 15           | 0     |
| DR                           | 2087         | INF         | -2          | 20         | 0            | 0     |
| DR                           | 2088         | INF         | -2          | 20         | 0            | 0     |
| DR                           | 2089         | INF         | -2          | 20         | 0            | 0     |
| DZ                           | 2090         | INF         | -2          | 20         | 0            | 0     |
|                              | 2091         | INF         | -2          | 20         | 0            | 7.37  |
|                              | 2092         | INF         | -2          | 20         | 0            | 14.76 |
|                              | 2093 *       | INF         | -2          | 20         | 0            | 19.64 |
| DZ                           | 2094         | INF         | -2          | 20         | 5            | 0     |
|                              | 2095         | INF         | -2          | 20         | 5            | 7.39  |
|                              | 2096         | INF         | -2          | 20         | 5            | 14.74 |
|                              | 2097 *       | INF         | -2          | 20         | 5            | 19.64 |

\* Indicates model was close to heave stop

TABLE B.28 CHRONOLOGICAL RUN DIRECTORY

|   | Run    | Radius<br>ft | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps |
|---|--------|--------------|-------------|-------------|------------|--------------|
| 10 Degree Deadrise Hull                         |        |              |             |             |            |              |
| DZ  | 2098   | INF          | -2          | 20          | 10         | 0            |
|   | 2099   | INF          | -2          | 20          | 10         | 7.36         |
|   | 2100   | INF          | -2          | 20          | 10         | 14.74        |
| DZ  | 2101   | INF          | -2          | 20          | 15         | 0            |
|   | 2102   | INF          | -2          | 20          | 15         | 7.39         |
|   | 2103   | INF          | -2          | 20          | 15         | 14.73        |
|   | 2104   | INF          | -2          | 20          | 15         | 19.66        |
|   | 2105   | INF          | -2          | 20          | 10         | 19.67        |
|   | 2107   | INF          | -2          | 20          | 10         | 19.69        |
| DZ  | 2108   | INF          | -2          | 20          | 12         | 0            |
|   | 2109   | INF          | -2          | 20          | 12         | 19.66        |
| DR  | 2110   | INF          | -2          | 0           | 0          | 0            |
| DR  | 2111   | INF          | -2          | -10         | 0          | 0            |
| DZ  | 2112   | INF          | -2          | -10         | 0          | 0            |
|   | 2113   | INF          | -2          | -10         | 0          | 7.38         |
|   | 2114   | INF          | -2          | -10         | 0          | 14.75        |
|   | 2115   | INF          | -2          | -10         | 0          | 19.64        |
| DZ  | 2116   | INF          | -2          | -10         | 5          | 0            |
|   | 2117   | INF          | -2          | -10         | 5          | 7.36         |
|   | 2118   | INF          | -2          | -10         | 5          | 14.74        |
| DZ  | 2120   | INF          | -2          | -10         | 10         | 0            |
|   | 2121   | INF          | -2          | -10         | 10         | 7.37         |
| DZ  | 2122   | INF          | -2          | -10         | 15         | 0            |
|   | 2123 * | INF          | -2          | -10         | 15         | 7.37         |
| 2124-2171 Calibration checks and air tare tests |        |              |             |             |            |              |

| 20 Degree Deadrise Hull Rudder Tests<br>(Zero roll and yaw) |      |              |             |                   |               |              |
|---|------|--------------|-------------|-------------------|---------------|--------------|
|   | Run  | Radius<br>ft | Trim<br>deg | Roll & Yaw<br>deg | Rudder<br>deg | Speed<br>fps |
| DZ  | 2172 | INF          | 3           | 0                 | 0             | 0            |
|   | 2173 | INF          | 3           | 0                 | 0             | 7.37         |
|   | 2174 | INF          | 3           | 0                 | 0             | 14.73        |
|   | 2175 | INF          | 3           | 0                 | 0             | 19.61        |
| DZ  | 2176 | INF          | 3           | 0                 | -20           | 0.00         |
|   | 2177 | INF          | 3           | 0                 | -20           | 7.36         |
|   | 2178 | INF          | 3           | 0                 | -20           | 14.73        |
|   | 2179 | INF          | 3           | 0                 | -20           | 19.64        |
| DR  | 2180 | INF          | 3           | 0                 | 20            | 0.00         |
| DZ  | 2181 | INF          | 3           | 0                 | 20            | 0.00         |
|   | 2182 | INF          | 3           | 0                 | 20            | 7.37         |
|   | 2183 | INF          | 3           | 0                 | 20            | 14.73        |
|   | 2184 | INF          | 3           | 0                 | 20            | 19.62        |
|   | 2185 | INF          | 3           | 0                 | 20            | 19.72        |
| 2186-2194 Calibration checks                                |      |              |             |                   |               |              |
|   | 2195 | INF          | 3           | 0                 | 20            | 19.63        |
| DZ  | 2196 | INF          | 3           | 0                 | -15           | 0.00         |
|   | 2197 | INF          | 3           | 0                 | -15           | 7.37         |
|   | 2198 | INF          | 3           | 0                 | -15           | 14.72        |

\* Indicates model was close to heave stop

TABLE B.29 CHRONOLOGICAL RUN DIRECTORY

| Run                                  | Radius<br>ft       | Trim<br>deg | Roll & Yaw<br>deg | Rudder<br>deg | Speed<br>fps |
|--------------------------------------|--------------------|-------------|-------------------|---------------|--------------|
| 20 Degree Deadrise Hull Rudder Tests |                    |             |                   |               |              |
| 2199                                 | INF                | 3           | 0                 | -15           | 19.63        |
| 2200                                 | INF                | 3           | 0                 | -10           | 7.37         |
| 2201                                 | INF                | 3           | 0                 | -10           | 14.77        |
| 2202                                 | INF                | 3           | 0                 | -10           | 19.67        |
| 2203                                 | INF                | 3           | 0                 | -5            | 7.38         |
| 2204                                 | INF                | 3           | 0                 | -5            | 14.77        |
| DR 2205                              | INF                | 3           | 0                 | -5            | 0.00         |
| 2206                                 | INF                | 3           | 0                 | -5            | 19.66        |
| 2207                                 | INF                | 3           | 0                 | 15            | 19.68        |
| 2208                                 | INF                | 3           | 0                 | 15            | 19.67        |
| 2209                                 | INF                | 3           | 0                 | -15           | 19.64        |
| 10 Degree Deadrise Hull Rudder Tests |                    |             |                   |               |              |
| 2210-2216                            | Calibration checks |             |                   |               |              |
| DZ 2217                              | INF                | 3           | 0                 | 0             | 0.00         |
| 2218                                 | INF                | 3           | 0                 | 0             | 7.36         |
| 2219                                 | INF                | 3           | 0                 | 0             | 14.75        |
| 2220                                 | INF                | 3           | 0                 | 0             | 19.64        |
| 2221                                 | INF                | 3           | 0                 | 15            | 7.38         |
| 2222                                 | INF                | 3           | 0                 | 15            | 14.74        |
| 2223                                 | INF                | 3           | 0                 | 15            | 19.67        |
| 2224                                 | INF                | 3           | 0                 | -15           | 7.37         |
| 2225                                 | INF                | 3           | 0                 | -15           | 14.74        |
| 2226                                 | INF                | 3           | 0                 | -15           | 19.67        |
| 2227-2234                            | Calibration checks |             |                   |               |              |
| DZ 2235                              | INF                | 3           | 0                 | 0             | 0.00         |
| 2236                                 | INF                | 3           | 0                 | -15           | 19.66        |
| 2237                                 | INF                | 3           | 0                 | -10           | 7.36         |
| 2238                                 | INF                | 3           | 0                 | -10           | 14.73        |
| 2239                                 | INF                | 3           | 0                 | -10           | 19.63        |
| 2240                                 | INF                | 3           | 0                 | -5            | 7.38         |
| 2241                                 | INF                | 3           | 0                 | -5            | 14.73        |
| 2242                                 | INF                | 3           | 0                 | -5            | 19.66        |
| 2243                                 | INF                | 3           | 0                 | -20           | 7.37         |
| 2244                                 | INF                | 3           | 0                 | -20           | 14.74        |
| 2245                                 | INF                | 3           | 0                 | -20           | 19.64        |
| 2246                                 | INF                | 3           | 0                 | -20           | 19.62        |
| Displacement increased to 21.49 lb   |                    |             |                   |               |              |
| DZ 2247                              | INF                | 3           | 0                 | -20           | 0.00         |
| 2248                                 | INF                | 3           | 0                 | -20           | 19.65        |
| 2249                                 | INF                | 3           | 0                 | -15           | 19.67        |
| Displacement restored to 11.49 lb    |                    |             |                   |               |              |
| 2250-2299                            | Numbers not used   |             |                   |               |              |

End of straight course tests

\* Indicates model was close to heave stop

TABLE B.30 CHRONOLOGICAL RUN DIRECTORY

| Run  | Radius<br>ft | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps |
|--|--------------|-------------|-------------|------------|--------------|
| Start of 10 Degree Deadrise Hull at 16 ft Radius |              |             |             |            |              |
| 2300-2314 Calibration checks                     |              |             |             |            |              |
| DZ 2315  | 16           | 0           | 0           | 0          | 0            |
| 2316   | 16           | 0           | 0           | 0          | 7.51         |
| DR 2317  | 16           | 0           | 0           | 0          | 0            |
| 2318   | 16           | 0           | 0           | 0          | 7.35         |
| 2319   | 16           | 0           | 0           | 0          | 15.01        |
| 2320   | 16           | 0           | 0           | 0          | 14.72        |
| DR 2321  | 16           | 0           | 0           | 0          | 20.44        |
| 2322   | 16           | 0           | 0           | 0          | 19.44        |
| 2323   | 16           | 0           | 0           | 0          | 19.76        |
| 2324   | 16           | 0           | 0           | 0          | 19.63        |
| DR 2325  | 16           | 0           | 0           | 0          | 0            |
| 2326   | 16           | 0           | 0           | 0          | 19.61        |
| 2327   | 16           | 0           | 0           | 0          | 19.51        |
| 2328   | 16           | 0           | 0           | 0          | 19.58        |
| DZ 2329  | 16           | 0           | 0           | 5          | 0            |
| 2330   | 16           | 0           | 0           | 5          | 7.36         |
| 2331   | 16           | 0           | 0           | 5          | 14.74        |
| 2332   | 16           | 0           | 0           | 5          | 14.76        |
| 2333   | 16           | 0           | 0           | 5          | 19.57        |
| DR 2334  | 16           | 0           | 0           | 10         | 0            |
| 2335   | 16           | 0           | 0           | 10         | 7.36         |
| DZ 2336  | 16           | 0           | 0           | 10         | 0            |
| 2337 *   | 16           | 0           | 0           | 10         | 14.75        |
| 2338 *   | 16           | 0           | 0           | 10         | 14.76        |
| 2339 *   | 16           | 0           | 0           | 10         | 19.60        |
| DZ 2340  | 16           | 0           | 0           | -5         | 0            |
| 2341   | 16           | 0           | 0           | -5         | 7.37         |
| 2342   | 16           | 0           | 0           | -5         | 14.75        |
| 2343   | 16           | 0           | 0           | -5         | 19.59        |
| DZ 2344  | 16           | 0           | 0           | -10        | 0            |
| 2345   | 16           | 0           | 0           | -10        | 7.37         |
| 2346   | 16           | 0           | 0           | -10        | 14.75        |
| 2347   | 16           | 0           | 0           | -10        | 19.61        |
| DZ 2348  | 16           | 0           | 0           | -15        | 0            |
| 2349   | 16           | 0           | 0           | -15        | 7.37         |
| 2350 *   | 16           | 0           | 0           | -15        | 14.76        |
| DR 2351  | 16           | 0           | 0           | -15        | 0            |
| 2352   | 16           | 0           | 0           | -15        | 19.19        |
| 2353-2372 Calibration checks                     |              |             |             |            |              |
| DZ 2373  | 16           | 0           | 10          | 0          | 0            |
| 2374   | 16           | 0           | 10          | 0          | 7.37         |
| 2375   | 16           | 0           | 10          | 0          | 14.76        |
| 2376   | 16           | 0           | 10          | 0          | 19.15        |
| 2377   | 16           | 0           | 10          | 0          | 19.59        |
| DZ 2378  | 16           | 0           | 10          | 5          | 0            |
| 2379   | 16           | 0           | 10          | 5          | 7.36         |
| 2380   | 16           | 0           | 10          | 5          | 14.74        |
| 2381   | 16           | 0           | 10          | 5          | 19.57        |

\* Indicates model was close to heave stop

TABLE B.31 CHRONOLOGICAL RUN DIRECTORY

|    | Run                     | Radius<br>ft | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps |
|----|-------------------------|--------------|-------------|-------------|------------|--------------|
|    | 10 Degree Deadrise Hull |              |             |             |            |              |
| DZ | 2382                    | 16           | 0           | 10          | 10         | 0            |
|    | 2383                    | 16           | 0           | 10          | 10         | 7.36         |
|    | 2384                    | 16           | 0           | 10          | 10         | 14.76        |
|    | 2385                    | 16           | 0           | 10          | 10         | 19.59        |
| DZ | 2386                    | 16           | 0           | 10          | 15         | 0            |
|    | 2387                    | 16           | 0           | 10          | 15         | 7.36         |
|    | 2388                    | 16           | 0           | 10          | 15         | 14.75        |
|    | 2389                    | 16           | 0           | 10          | 15         | 19.58        |
| DZ | 2390                    | 16           | 0           | 10          | -5         | 0            |
|    | 2391                    | 16           | 0           | 10          | -5         | 7.37         |
|    | 2392                    | 16           | 0           | 10          | -5         | 14.75        |
| DR | 2393                    | 16           | 0           | 10          | -5         | 0            |
|    | 2394                    | 16           | 0           | 10          | -5         | 19.57        |
| DZ | 2395                    | 16           | 0           | 10          | -10        | 0            |
|    | 2396                    | 16           | 0           | 10          | -10        | 7.38         |
|    | 2397 *                  | 16           | 0           | 10          | -10        | 14.79        |
| DZ | 2399                    | 16           | 0           | 20          | 0          | 0            |
|    | 2400                    | 16           | 0           | 20          | 0          | 7.36         |
|    | 2401                    | 16           | 0           | 20          | 0          | 14.73        |
|    | 2402                    | 16           | 0           | 20          | 0          | 19.57        |
| DZ | 2403                    | 16           | 0           | 20          | 0          | 0            |
|    | 2404                    | 16           | 0           | 20          | 5          | 7.36         |
|    | 2405                    | 16           | 0           | 20          | 5          | 14.74        |
|    | 2406                    | 15           | 0           | 20          | 5          | 19.57        |
| DZ | 2407                    | 16           | 0           | 20          | 10         | 0            |
|    | 2408                    | 16           | 0           | 20          | 10         | 7.37         |
|    | 2409                    | 16           | 0           | 20          | 10         | 14.73        |
|    | 2410                    | 16           | 0           | 20          | 10         | 19.68        |
| DZ | 2411                    | 16           | 0           | 20          | 15         | 0            |
|    | 2412                    | 16           | 0           | 20          | 15         | 7.36         |
|    | 2413                    | 16           | 0           | 20          | 15         | 14.74        |
|    | 2414                    | 16           | 0           | 20          | 15         | 19.70        |
| DZ | 2415                    | 16           | 0           | 20          | -5         | 0            |
|    | 2416                    | 16           | 0           | 20          | -5         | 7.36         |
|    | 2417                    | 16           | 0           | 20          | -5         | 14.73        |
|    | 2418                    | 16           | 0           | 20          | -5         | 19.69        |
| DZ | 2419                    | 16           | 0           | 20          | -10        | 0            |
|    | 2420                    | 16           | 0           | 20          | -10        | 7.36         |
|    | 2421 *                  | 16           | 0           | 20          | -10        | 14.75        |
| DZ | 2422                    | 16           | 0           | 20          | -15        | 0            |
|    | 2423 *                  | 16           | 0           | 20          | -15        | 7.36         |
| DR | 2424                    | 16           | 0           | 20          | -15        | 0            |
| DR | 2425                    | 16           | 0           | 0           | 0          | 0            |
| DR | 2426                    | 16           | 0           | -10         | 0          | 0            |
| DZ | 2427                    | 16           | 0           | -10         | 0          | 0            |
|    | 2428                    | 16           | 0           | -10         | 0          | 7.36         |
|    | 2429                    | 16           | 0           | -10         | 0          | 14.74        |
|    | 2430                    | 16           | 0           | -10         | 0          | 19.68        |
| DZ | 2431                    | 16           | 0           | -10         | 5          | 0            |
|    | 2432                    | 16           | 0           | -10         | 5          | 7.36         |

\* Indicates model was close to heave stop

TABLE B.32 CHRONOLOGICAL RUN DIRECTORY

| Run                          | Radius<br>ft | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps |        |
|------------------------------|--------------|-------------|-------------|------------|--------------|--------|
| 10 Degree Deadrise Hull      |              |             |             |            |              |        |
|                              | 2433         | 16          | 0           | -10        | 5            | 14.74  |
|                              | 2434         | 16          | 0           | -10        | 5            | 19.69  |
| DZ                           | 2435         | 16          | 0           | -10        | 10           | 0      |
|                              | 2436         | 16          | 0           | -10        | 10           | 7.36   |
|                              | 2437 *       | 16          | 0           | -10        | 10           | 14.75  |
| 2438-2453 Calibration checks |              |             |             |            |              |        |
| DZ                           | 2454         | 16          | 0           | -10        | 15           | 0      |
|                              | 2455 *       | 16          | 0           | -10        | 15           | 7.35   |
|                              | 2457 *       | 16          | 0           | -10        | 15           | 14.73  |
| DZ                           | 2458         | 16          | 0           | -10        | -5           | 0      |
|                              | 2459         | 16          | 0           | -10        | -5           | 7.36   |
|                              | 2460         | 16          | 0           | -10        | -5           | 14.74  |
|                              | 2461         | 16          | 0           | -10        | -5           | 19.68  |
| DZ                           | 2462         | 16          | 0           | -10        | -10          | 0      |
|                              | 2463         | 16          | 0           | -10        | -10          | 7.36   |
|                              | 2464         | 16          | 0           | -10        | -10          | 14.75  |
| DR                           | 2465         | 16          | 0           | -10        | -10          | 122.18 |
| DR                           | 2466         | 16          | 0           | -10        | -10          | 20.17  |
| DR                           | 2467         | 16          | 0           | -10        | -10          | 16.76  |
|                              | 2468         | 16          | 0           | -10        | -10          | 19.68  |
|                              | 2469         | 16          | 0           | -10        | -10          | 19.66  |
|                              | 2470         | 16          | 0           | -10        | -10          | 14.72  |
| DZ                           | 2471         | 16          | 0           | -10        | -15          | 0      |
|                              | 2472         | 16          | 0           | -10        | -15          | 7.34   |
|                              | 2473         | 16          | 0           | -10        | -15          | 14.71  |
|                              | 2474         | 16          | 0           | -10        | -15          | 19.67  |
| DR                           | 2475         | 16          | 0           | 0          | 0            | 0      |
| DR                           | 2476         | 16          | 0           | 0          | 0            | 0      |
| DZ                           | 2477         | 16          | 3           | 0          | 0            | 0      |
|                              | 2478         | 16          | 3           | 0          | 0            | 7.34   |
|                              | 2479         | 16          | 3           | 0          | 0            | 14.71  |
|                              | 2480         | 16          | 3           | 0          | 0            | 19.65  |
| DZ                           | 2481         | 16          | 3           | 0          | 5            | 0      |
|                              | 2482         | 16          | 3           | 0          | 5            | 7.34   |
|                              | 2483         | 16          | 3           | 0          | 5            | 14.71  |
|                              | 2484         | 16          | 3           | 0          | 5            | 19.64  |
| DZ                           | 2485         | 16          | 3           | 0          | 10           | 0      |
|                              | 2486         | 16          | 3           | 0          | 10           | 7.35   |
|                              | 2487         | 16          | 3           | 0          | 10           | 14.74  |
|                              | 2488         | 16          | 3           | 0          | 10           | 19.65  |
| DZ                           | 2489         | 16          | 3           | 0          | 15           | 0      |
|                              | 2490         | 16          | 3           | 0          | 15           | 7.35   |
|                              | 2491         | 16          | 3           | 0          | 15           | 14.72  |
|                              | 2492         | 16          | 3           | 0          | 15           | 19.63  |
| DZ                           | 2493         | 16          | 3           | 0          | -5           | 0      |
|                              | 2494         | 16          | 3           | 0          | -5           | 7.35   |
|                              | 2495         | 16          | 3           | 0          | -5           | 14.72  |
|                              | 2496         | 16          | 3           | 0          | -5           | 19.58  |

\* Indicates model was close to heave stop



TABLE B.33 CHRONOLOGICAL RUN DIRECTORY

|    | Run                     | Radius<br>ft       | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps |
|----|-------------------------|--------------------|-------------|-------------|------------|--------------|
|    | 10 Degree Deadrise Hull |                    |             |             |            |              |
| DZ | 2497                    | 16                 | 3           | 0           | -10        | 0            |
|    | 2498                    | 16                 | 3           | 0           | -10        | 7.35         |
|    | 2499                    | 16                 | 3           | 0           | -10        | 14.72        |
|    | 2500                    | 16                 | 3           | 0           | -10        | 19.60        |
| DZ | 2501                    | 16                 | 3           | 0           | -15        | 0            |
|    | 2502                    | 16                 | 3           | 0           | -15        | 7.35         |
|    | 2503                    | 16                 | 3           | 0           | -15        | 14.72        |
|    | 2504                    | 16                 | 3           | 0           | -15        | 19.61        |
| DR | 2505                    | 16                 | 3           | 10          | 0          | 0            |
| DR | 2506                    | 16                 | 3           | 10          | 0          | 0            |
| DZ | 2507                    | 16                 | 3           | 10          | 0          | 0            |
|    | 2508                    | 16                 | 3           | 10          | 0          | 7.35         |
|    | 2509                    | 16                 | 3           | 10          | 0          | 14.72        |
|    | 2510                    | 16                 | 3           | 10          | 0          | 19.65        |
| DZ | 2511                    | 16                 | 3           | 10          | 5          | 0            |
|    | 2512                    | 16                 | 3           | 10          | 5          | 7.35         |
|    | 2513                    | 16                 | 3           | 10          | 5          | 14.72        |
|    | 2514                    | 16                 | 3           | 10          | 5          | 19.60        |
| DZ | 2515                    | 16                 | 3           | 10          | -5         | 0            |
|    | 2516                    | 16                 | 3           | 10          | -5         | 7.35         |
|    | 2517                    | 16                 | 3           | 10          | -5         | 14.74        |
|    | 2518                    | 16                 | 3           | 10          | -5         | 19.64        |
| DZ | 2519                    | 16                 | 3           | 10          | -10        | 0            |
|    | 2520                    | 16                 | 3           | 10          | -10        | 7.35         |
|    | 2521                    | 16                 | 3           | 10          | -10        | 14.72        |
|    | 2522                    | 16                 | 3           | 10          | -10        | 19.62        |
|    | 2523-2534               | Calibration checks |             |             |            |              |
| DZ | 2535                    | 16                 | 3           | 10          | -15        | 0            |
|    | 2536                    | 16                 | 3           | 10          | -15        | 7.34         |
|    | 2537                    | 16                 | 3           | 10          | -15        | 14.71        |
|    | 2538                    | 16                 | 3           | 10          | -15        | 19.64        |
| DR | 2539                    | 16                 | 3           | 10          | -15        | 0            |
| DZ | 2540                    | 16                 | 3           | 10          | 10         | 0            |
|    | 2541                    | 16                 | 3           | 10          | 10         | 7.35         |
|    | 2542                    | 16                 | 3           | 10          | 10         | 14.72        |
|    | 2543                    | 16                 | 3           | 10          | 10         | 19.67        |
|    | 2544                    | 16                 | 3           | 10          | 10         | 19.64        |
| DZ | 2545                    | 16                 | 3           | 10          | 15         | 0            |
|    | 2546                    | 16                 | 3           | 10          | 15         | 7.35         |
|    | 2547                    | 16                 | 3           | 10          | 15         | 14.72        |
|    | 2548                    | 16                 | 3           | 10          | 15         | 19.66        |
|    | 2549                    | 16                 | 3           | 10          | 15         | 19.68        |
| DR | 2550                    | 16                 | 3           | 20          | 0          | 0            |
| DR | 2551                    | 16                 | 3           | 20          | 0          | 0            |
| DZ | 2552                    | 16                 | 3           | 20          | 15         | 0            |
|    | 2553                    | 16                 | 3           | 20          | 15         | 7.35         |
|    | 2554                    | 16                 | 3           | 20          | 15         | 14.72        |
|    | 2555                    | 16                 | 3           | 20          | 15         | 19.66        |

\* Indicates model was close to heave stop

TABLE B.34 CHRONOLOGICAL RUN DIRECTORY

|                         | Run  | Radius<br>ft | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps |
|-------------------------|------|--------------|-------------|-------------|------------|--------------|
| 10 Degree Deadrise Hull |      |              |             |             |            |              |
| DZ                      | 2556 | 16           | 3           | 20          | 10         | 0            |
|                         | 2557 | 16           | 3           | 20          | 10         | 7.35         |
|                         | 2558 | 16           | 3           | 20          | 10         | 7.35         |
|                         | 2559 | 16           | 3           | 20          | 10         | 14.72        |
|                         | 2560 | 16           | 3           | 20          | 10         | 19.65        |
| DZ                      | 2561 | 16           | 3           | 20          | 5          | 0            |
|                         | 2562 | 16           | 3           | 20          | 5          | 7.35         |
|                         | 2563 | 16           | 3           | 20          | 5          | 14.73        |
|                         | 2564 | 16           | 3           | 20          | 5          | 14.74        |
|                         | 2565 | 16           | 3           | 20          | 5          | 19.64        |
| DZ                      | 2566 | 16           | 3           | 20          | 0          | 0            |
|                         | 2567 | 16           | 3           | 20          | 0          | 7.35         |
|                         | 2568 | 16           | 3           | 20          | 0          | 14.75        |
|                         | 2569 | 16           | 3           | 20          | 0          | 19.66        |
| DZ                      | 2570 | 16           | 3           | 20          | -5         | 0            |
|                         | 2571 | 16           | 3           | 20          | -5         | 7.35         |
|                         | 2572 | 16           | 3           | 20          | -5         | 14.73        |
|                         | 2573 | 16           | 3           | 20          | -5         | 19.61        |
| DZ                      | 2574 | 16           | 3           | 20          | -10        | 0            |
|                         | 2575 | 16           | 3           | 20          | -10        | 7.35         |
|                         | 2576 | 16           | 3           | 20          | -10        | 14.72        |
|                         | 2577 | 16           | 3           | 20          | -10        | 19.63        |
| DZ                      | 2578 | 16           | 3           | 20          | -15        | 0            |
|                         | 2579 | 16           | 3           | 20          | -15        | 7.36         |
|                         | 2580 | 16           | 3           | 20          | -15        | 14.73        |
| DR                      | 2581 | 16           | 3           | 20          | -15        | 0            |
| DR                      | 2582 | 16           | 3           | 20          | -15        | 0            |
| DR                      | 2583 | 16           | 3           | 20          | -15        | 0            |
| DR                      | 2584 | 16           | 3           | 20          | -15        | 0            |
| DZ                      | 2585 | 16           | 3           | -10         | 0          | 0            |
|                         | 2586 | 16           | 3           | -10         | 0          | 7.35         |
|                         | 2587 | 16           | 3           | -10         | 0          | 14.74        |
|                         | 2588 | 16           | 3           | -10         | 0          | 19.67        |
| DR                      | 2589 | 16           | 3           | -10         | -5         | 0            |
| DZ                      | 2590 | 16           | 3           | -10         | -5         | 0            |
|                         | 2591 | 16           | 3           | -10         | -5         | 7.36         |
|                         | 2592 | 16           | 3           | -10         | -5         | 14.74        |
|                         | 2593 | 16           | 3           | -10         | -5         | 19.64        |
| DR                      | 2594 | 16           | 3           | -10         | -10        | 0            |
| DZ                      | 2595 | 16           | 3           | -10         | -10        | 0            |
|                         | 2596 | 16           | 3           | -10         | -10        | 7.36         |
|                         | 2597 | 16           | 3           | -10         | -10        | 14.72        |
|                         | 2598 | 16           | 3           | -10         | -10        | 19.64        |
| DZ                      | 2599 | 16           | 3           | -10         | -15        | 0            |
|                         | 2600 | 16           | 3           | -10         | -15        | 7.36         |
|                         | 2601 | 16           | 3           | -10         | -15        | 14.72        |
|                         | 2602 | 16           | 3           | -10         | -15        | 19.63        |
| DZ                      | 2603 | 16           | 3           | -10         | 5          | 0            |
|                         | 2604 | 16           | 3           | -10         | 5          | 7.35         |
|                         | 2605 | 16           | 3           | -10         | 5          | 14.72        |

\* Indicates model was close to heave stop

TABLE B.35 CHRONOLOGICAL RUN DIRECTORY

|                              | Run    | Radius<br>ft | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps |
|------------------------------|--------|--------------|-------------|-------------|------------|--------------|
| 10 Degree Deadrise Hull      |        |              |             |             |            |              |
|                              | 2606   | 16           | 3           | -10         | 5          | 19.66        |
| DZ                           | 2607   | 16           | 3           | -10         | 10         | 0            |
|                              | 2608   | 16           | 3           | -10         | 10         | 7.35         |
|                              | 2609   | 16           | 3           | -10         | 10         | 14.72        |
|                              | 2610   | 16           | 3           | -10         | 10         | 19.64        |
| DZ                           | 2611   | 16           | 3           | -10         | 15         | 0            |
|                              | 2612   | 16           | 3           | -10         | 15         | 7.35         |
|                              | 2613 * | 16           | 3           | -10         | 15         | 14.75        |
| DR                           | 2614   | 16           | 6           | 0           | 0          | 0            |
| DZ                           | 2615   | 16           | 6           | 0           | 0          | 0            |
|                              | 2616   | 16           | 6           | 0           | 0          | 7.35         |
|                              | 2617   | 16           | 6           | 0           | 0          | 14.72        |
|                              | 2618   | 16           | 6           | 0           | 0          | 14.74        |
|                              | 2619   | 16           | 6           | 0           | 0          | 19.61        |
| DZ                           | 2620   | 16           | 6           | 0           | 5          | 0            |
|                              | 2621   | 16           | 6           | 0           | 5          | 7.35         |
|                              | 2622   | 16           | 6           | 0           | 5          | 14.73        |
|                              | 2623   | 16           | 6           | 0           | 5          | 19.65        |
| 2624-2641 Calibration checks |        |              |             |             |            |              |
| DZ                           | 2642   | 16           | 6           | 0           | 10         | 0            |
|                              | 2643   | 16           | 6           | 0           | 10         | 7.35         |
|                              | 2644   | 16           | 6           | 0           | 10         | 14.72        |
|                              | 2645   | 16           | 6           | 0           | 10         | 19.68        |
| DZ                           | 2646   | 16           | 6           | 0           | 15         | 0            |
|                              | 2647   | 16           | 6           | 0           | 15         | 7.35         |
|                              | 2648   | 16           | 6           | 0           | 15         | 14.73        |
|                              | 2649   | 16           | 6           | 0           | 15         | 19.69        |
| DZ                           | 2650   | 16           | 6           | 0           | -5         | 0            |
|                              | 2651   | 16           | 6           | 0           | -5         | 7.36         |
|                              | 2652   | 16           | 6           | 0           | -5         | 14.73        |
|                              | 2653   | 16           | 6           | 0           | -5         | 19.69        |
| DZ                           | 2654   | 16           | 6           | 0           | -10        | 0            |
|                              | 2655   | 16           | 6           | 0           | -10        | 7.35         |
|                              | 2656   | 16           | 6           | 0           | -10        | 14.73        |
|                              | 2657   | 16           | 6           | 0           | -10        | 19.70        |
| DZ                           | 2658   | 16           | 6           | 0           | -15        | 0            |
|                              | 2659   | 16           | 6           | 0           | -15        | 7.36         |
|                              | 2660   | 16           | 6           | 0           | -15        | 14.75        |
|                              | 2661   | 16           | 6           | 0           | -15        | 19.69        |
| DR                           | 2662   | 16           | 6           | 10          | 0          | 0            |
| DZ                           | 2663   | 16           | 6           | 10          | 0          | 0            |
|                              | 2664   | 16           | 6           | 10          | 0          | 7.35         |
|                              | 2665   | 16           | 6           | 10          | 0          | 14.72        |
|                              | 2666   | 16           | 6           | 10          | 0          | 19.68        |
| DZ                           | 2667   | 16           | 6           | 10          | 5          | 0            |
|                              | 2668   | 16           | 6           | 10          | 5          | 7.35         |
|                              | 2669   | 16           | 6           | 10          | 5          | 14.74        |
|                              | 2670   | 16           | 6           | 10          | 5          | 19.69        |
| DZ                           | 2671   | 16           | 6           | 10          | 10         | 0            |
|                              | 2672   | 16           | 6           | 10          | 10         | 7.36         |

\* Indicates model was close to heave stop

TABLE B.36 CHRONOLOGICAL RUN DIRECTORY

| Run                     | Radius<br>ft | Trim<br>deg        | Roll<br>deg | Yaw<br>deg | Speed<br>fps |
|-------------------------|--------------|--------------------|-------------|------------|--------------|
| 10 Degree Deadrise Hull |              |                    |             |            |              |
|                         | 2673         | 16                 | 6           | 10         | 14.76        |
|                         | 2674         | 16                 | 6           | 10         | 19.71        |
| DZ                      | 2675         | 16                 | 6           | 10         | 0            |
|                         | 2676         | 16                 | 6           | 10         | 7.36         |
|                         | 2677         | 16                 | 6           | 10         | 14.72        |
|                         | 2678         | 16                 | 6           | 10         | 19.61        |
| DZ                      | 2679         | 16                 | 6           | 10         | -5           |
|                         | 2680         | 16                 | 6           | 10         | -5           |
|                         | 2681         | 16                 | 6           | 10         | -5           |
|                         | 2682         | 16                 | 6           | 10         | -5           |
| DZ                      | 2683         | 16                 | 6           | 10         | -10          |
|                         | 2684         | 16                 | 6           | 10         | -10          |
|                         | 2685         | 16                 | 6           | 10         | -10          |
|                         | 2686         | 16                 | 6           | 10         | -10          |
|                         | 2687         | 16                 | 6           | 10         | -10          |
| DZ                      | 2688         | 16                 | 6           | 10         | -15          |
|                         | 2689         | 16                 | 6           | 10         | -15          |
|                         | 2690         | 16                 | 6           | 10         | -15          |
|                         | 2691         | 16                 | 6           | 10         | -15          |
| DR                      | 2692         | 16                 | 6           | 20         | 0            |
| DR                      | 2693         | 16                 | 6           | 20         | 0            |
| DR                      | 2694         | 16                 | 6           | 20         | 0            |
| DZ                      | 2695         | 16                 | 6           | 20         | 0            |
|                         | 2696         | 16                 | 6           | 20         | -10          |
|                         | 2697         | 16                 | 6           | 20         | -10          |
|                         | 2698         | 16                 | 6           | 20         | -10          |
|                         | 2699         | 16                 | 6           | 20         | -10          |
|                         | 2700         | 16                 | 6           | 20         | -10          |
| DZ                      | 2701         | 16                 | 6           | 20         | -15          |
|                         | 2702         | 16                 | 6           | 20         | -15          |
|                         | 2703         | 16                 | 6           | 20         | -15          |
|                         | 2704         | 16                 | 6           | 20         | -15          |
| DZ                      | 2705         | 16                 | 6           | 20         | -5           |
|                         | 2706         | 16                 | 6           | 20         | -5           |
|                         | 2707         | 16                 | 6           | 20         | -5           |
|                         | 2708         | 16                 | 6           | 20         | -5           |
| DZ                      | 2709         | 16                 | 6           | 20         | 0            |
|                         | 2710         | 16                 | 6           | 20         | 0            |
|                         | 2711         | 16                 | 6           | 20         | 0            |
|                         | 2712         | 16                 | 6           | 20         | 0            |
| DZ                      | 2713         | 16                 | 6           | 20         | 5            |
|                         | 2714         | 16                 | 6           | 20         | 5            |
|                         | 2715         | 16                 | 6           | 20         | 5            |
|                         | 2716         | 16                 | 6           | 20         | 5            |
| DZ                      | 2717         | 16                 | 6           | 20         | 10           |
|                         | 2718         | 16                 | 6           | 20         | 10           |
|                         | 2719         | 16                 | 6           | 20         | 10           |
| DR                      | 2720         | 16                 | 6           | 20         | 10           |
|                         | 2721-2733    | Calibration checks |             |            |              |
| DZ                      | 2735         | 16                 | 6           | 20         | 10           |

\* Indicates model was close to heave stop

TABLE B.37 CHRONOLOGICAL RUN DIRECTORY

| Run                     | Radius<br>ft   | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps |
|-------------------------|----------------|-------------|-------------|------------|--------------|
| 10 Degree Deadrise Hull |                |             |             |            |              |
| 2736                    | 16             | 6           | 20          | 10         | 19.66        |
| 2737                    | 16             | 6           | 20          | 5          | 19.64        |
| DZ 2738                 | 16             | 6           | 20          | 15         | 0            |
| 2739                    | 16             | 6           | 20          | 15         | 7.35         |
| 2740                    | 16             | 6           | 20          | 15         | 14.74        |
| 2741                    | 16             | 6           | 20          | 15         | 19.67        |
| 2743                    | 16             | 6           | 10          | -15        | 19.67        |
| 2744-2790               | Air tare tests |             |             |            |              |

Temporary end of 10 degree deadrise hull at 16 ft radius  
Resumed at Run 3278

Start of 20 Degree Deadrise Hull at 16 ft Radius

|           |                    |   |    |     |       |
|-----------|--------------------|---|----|-----|-------|
| 2791-2796 | Calibration checks |   |    |     |       |
| DR 2796   | 16                 | 0 | 0  | 0   | 0     |
| DZ 2797   | 16                 | 0 | 0  | 0   | 0     |
| DR 2798   | 16                 | 0 | 0  | 0   | 0     |
| 2799      | 16                 | 0 | 0  | 0   | 7.35  |
| 2800      | 16                 | 0 | 0  | 0   | 14.75 |
| 2801      | 16                 | 0 | 0  | 0   | 19.68 |
| DZ 2802   | 16                 | 0 | 0  | 5   | 0     |
| 2803      | 16                 | 0 | 0  | 5   | 7.35  |
| 2804      | 16                 | 0 | 0  | 5   | 14.73 |
| 2805      | 16                 | 0 | 0  | 5   | 19.67 |
| 2806-2815 | Calibration checks |   |    |     |       |
| DZ 2816   | 16                 | 0 | 0  | 10  | 0     |
| 2817      | 16                 | 0 | 0  | 10  | 7.35  |
| 2818 *    | 16                 | 0 | 0  | 10  | 14.73 |
| DR 2819   | 16                 | 0 | 0  | 10  | 0     |
| 2820 *    | 16                 | 0 | 0  | 10  | 19.67 |
| DZ 2821   | 16                 | 0 | 0  | -5  | 0     |
| 2822      | 16                 | 0 | 0  | -5  | 7.36  |
| 2823      | 16                 | 0 | 0  | -5  | 14.74 |
| 2824      | 16                 | 0 | 0  | -5  | 19.66 |
| DZ 2825   | 16                 | 0 | 0  | -10 | 0     |
| 2826      | 16                 | 0 | 0  | -10 | 7.36  |
| DR 2827   | 16                 | 0 | 0  | -10 | 0     |
| 2828      | 16                 | 0 | 0  | -10 | 14.75 |
| 2829      | 16                 | 0 | 0  | -10 | 19.69 |
| DZ 2830   | 16                 | 0 | 0  | -15 | 0     |
| DZ 2831   | 16                 | 0 | 0  | -15 | 0     |
| 2832 *    | 16                 | 0 | 0  | -15 | 7.36  |
| 2833 *    | 16                 | 0 | 0  | -15 | 14.74 |
| DR 2834   | 16                 | 0 | 10 | 0   | 0     |
| DZ 2835   | 16                 | 0 | 10 | 0   | 0     |
| 2836      | 16                 | 0 | 10 | 0   | 7.36  |
| 2837      | 16                 | 0 | 10 | 0   | 14.75 |
| 2838      | 16                 | 0 | 10 | 0   | 19.68 |
| DZ 2839   | 16                 | 0 | 10 | 5   | 0     |

\* Indicates model was close to heave stop

TABLE B.38 CHRONOLOGICAL RUN DIRECTORY

| Run                     | Radius<br>ft | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps |       |
|-------------------------|--------------|-------------|-------------|------------|--------------|-------|
| 20 Degree Deadrise Hull |              |             |             |            |              |       |
|                         | 2840         | 16          | 0           | 10         | 5            | 7.36  |
|                         | 2841         | 16          | 0           | 10         | 5            | 14.77 |
|                         | 2842         | 16          | 0           | 10         | 5            | 19.68 |
| DZ                      | 2843         | 16          | 0           | 10         | 10           | 0     |
|                         | 2844         | 16          | 0           | 10         | 10           | 7.36  |
|                         | 2845         | 16          | 0           | 10         | 10           | 14.77 |
|                         | 2846         | 16          | 0           | 10         | 10           | 19.68 |
| DZ                      | 2847         | 16          | 0           | 10         | 15           | 0     |
|                         | 2848         | 16          | 0           | 10         | 15           | 7.37  |
|                         | 2849         | 16          | 0           | 10         | 15           | 7.36  |
|                         | 2850 *       | 16          | 0           | 10         | 15           | 14.76 |
| DZ                      | 2851         | 16          | 0           | 10         | -5           | 0     |
|                         | 2852         | 16          | 0           | 10         | -5           | 7.37  |
|                         | 2853         | 16          | 0           | 10         | -5           | 14.76 |
|                         | 2854         | 16          | 0           | 10         | -5           | 19.71 |
| DZ                      | 2855         | 16          | 0           | 10         | -10          | 0     |
|                         | 2856         | 16          | 0           | 10         | -10          | 7.37  |
|                         | 2857         | 16          | 0           | 10         | -10          | 14.74 |
|                         | 2858         | 16          | 0           | 10         | -10          | 19.67 |
| DZ                      | 2859         | 16          | 0           | 10         | -15          | 0     |
|                         | 2860 *       | 16          | 0           | 10         | -15          | 7.36  |
| DR                      | 2861         | 16          | 0           | 20         | 0            | 0     |
| DR                      | 2862         | 16          | 0           | 20         | 0            | 0     |
| DR                      | 2863         | 16          | 0           | 20         | 0            | 0     |
| DZ                      | 2864         | 16          | 0           | 20         | 0            | 0     |
|                         | 2865         | 16          | 0           | 20         | 0            | 7.35  |
|                         | 2866         | 16          | 0           | 20         | 0            | 14.73 |
|                         | 2867         | 16          | 0           | 20         | 0            | 19.63 |
| DZ                      | 2868         | 16          | 0           | 20         | 5            | 0     |
|                         | 2869         | 16          | 0           | 20         | 5            | 7.36  |
|                         | 2870         | 16          | 0           | 20         | 5            | 14.75 |
|                         | 2871         | 16          | 0           | 20         | 5            | 19.69 |
| DZ                      | 2872         | 16          | 0           | 20         | 10           | 0     |
|                         | 2873         | 16          | 0           | 20         | 10           | 7.36  |
|                         | 2874         | 16          | 0           | 20         | 10           | 14.74 |
|                         | 2875         | 16          | 0           | 20         | 10           | 19.68 |
| DZ                      | 2876         | 16          | 0           | 20         | 15           | 0     |
|                         | 2877         | 16          | 0           | 20         | 15           | 7.36  |
|                         | 2878         | 16          | 0           | 20         | 15           | 14.76 |
|                         | 2879         | 16          | 0           | 20         | 15           | 19.66 |
| DZ                      | 2880         | 16          | 0           | 20         | -5           | 0     |
| DR                      | 2881         | 16          | 0           | 20         | -5           | 0     |
| DR                      | 2882         | 16          | 0           | 20         | 15           | 0     |
|                         | 2883         | 16          | 0           | 20         | 15           | 14.76 |
|                         | 2884         | 16          | 0           | 20         | 15           | 19.68 |
| DZ                      | 2885         | 16          | 0           | 20         | -5           | 0     |
|                         | 2886         | 16          | 0           | 20         | -5           | 7.36  |
|                         | 2887         | 16          | 0           | 20         | -5           | 14.74 |
|                         | 2888         | 16          | 0           | 20         | -5           | 19.63 |

\* Indicates model was close to heave stop

TABLE B.39 CHRONOLOGICAL RUN DIRECTORY

|                              | Run    | Radius<br>ft | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps |
|------------------------------|--------|--------------|-------------|-------------|------------|--------------|
| 20 Degree Deadrise Hull      |        |              |             |             |            |              |
| DZ                           | 2889   | 16           | 0           | 20          | -10        | 0            |
|                              | 2890   | 16           | 0           | 20          | -10        | 7.37         |
| DZ                           | 2891   | 16           | 0           | 20          | -10        | 0            |
|                              | 2892   | 16           | 0           | 20          | -10        | 14.74        |
|                              | 2893   | 16           | 0           | 20          | -10        | 19.69        |
|                              | 2894 * | 16           | 0           | 20          | -15        | 7.36         |
| DZ                           | 2895   | 16           | 0           | 20          | -15        | 0            |
|                              | 2896 * | 16           | 0           | 20          | -15        | 14.75        |
| 2897-2911 Calibration checks |        |              |             |             |            |              |
| DZ                           | 2912   | 16           | 0           | -10         | 0          | 0            |
|                              | 2913   | 16           | 0           | -10         | 0          | 7.35         |
|                              | 2914   | 16           | 0           | -10         | 0          | 14.73        |
|                              | 2915   | 16           | 0           | -10         | 0          | 19.68        |
| DZ                           | 2916   | 16           | 0           | -10         | 5          | 0            |
|                              | 2917   | 16           | 0           | -10         | 5          | 7.36         |
|                              | 2918   | 16           | 0           | -10         | 5          | 14.75        |
|                              | 2919   | 16           | 0           | -10         | 5          | 19.73        |
| DZ                           | 2920   | 16           | 0           | -10         | 10         | 0            |
|                              | 2921   | 16           | 0           | -10         | 10         | 7.36         |
|                              | 2922 * | 16           | 0           | -10         | 10         | 14.75        |
| DR                           | 2923   | 16           | 0           | -10         | 10         | 0            |
| DZ                           | 2924   | 16           | 0           | -10         | 15         | 0            |
|                              | 2925 * | 16           | 0           | -10         | 15         | 7.36         |
| DZ                           | 2926   | 16           | 0           | -10         | -5         | 0            |
|                              | 2927   | 16           | 0           | -10         | -5         | 7.36         |
|                              | 2928   | 16           | 0           | -10         | -5         | 14.74        |
|                              | 2929   | 16           | 0           | -10         | -5         | 19.73        |
| DZ                           | 2930   | 16           | 0           | -10         | -10        | 0            |
|                              | 2931   | 16           | 0           | -10         | -10        | 7.36         |
|                              | 2932   | 16           | 0           | -10         | -10        | 14.74        |
|                              | 2933   | 16           | 0           | -10         | -10        | 19.72        |
| DZ                           | 2934   | 16           | 0           | -10         | -15        | 0            |
|                              | 2935   | 16           | 0           | -10         | -15        | 7.36         |
|                              | 2936   | 16           | 0           | -10         | -15        | 7.36         |
|                              | 2937 * | 16           | 0           | -10         | -15        | 14.75        |
|                              | 2938 * | 16           | 0           | -10         | -15        | 15.34        |
|                              | 2939 * | 16           | 0           | -10         | -15        | 14.75        |
| DR                           | 2940   | 16           | 0           | -10         | -15        | 0            |
| DR                           | 2941   | 16           | 3           | 0           | 0          | 0            |
| DZ                           | 2942   | 16           | 3           | 0           | 0          | 0            |
|                              | 2943   | 16           | 3           | 0           | 0          | 7.36         |
|                              | 2944   | 16           | 3           | 0           | 0          | 14.76        |
|                              | 2945   | 16           | 3           | 0           | 0          | 19.58        |
| DZ                           | 2946   | 16           | 3           | 0           | 5          | 0            |
|                              | 2947   | 16           | 3           | 0           | 5          | 7.36         |
|                              | 2948   | 16           | 3           | 0           | 5          | 14.73        |
|                              | 2949   | 16           | 3           | 0           | 5          | 19.62        |
| DZ                           | 2950   | 16           | 3           | 0           | 10         | 0            |
|                              | 2951   | 16           | 3           | 0           | 10         | 7.36         |
|                              | 2952   | 16           | 3           | 0           | 10         | 19.71        |

\* Indicates model was close to heave stop

TABLE B.40 CHRONOLOGICAL RUN DIRECTORY

|                         | Run  | Radius<br>ft | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps |
|-------------------------|------|--------------|-------------|-------------|------------|--------------|
| 20 Degree Deadrise Hull |      |              |             |             |            |              |
|                         | 2953 | 16           | 3           | 0           | 10         | 14.78        |
| DZ                      | 2954 | 16           | 3           | 0           | 15         | 0            |
|                         | 2955 | 16           | 3           | 0           | 15         | 7.36         |
|                         | 2956 | 16           | 3           | 0           | 15         | 14.74        |
|                         | 2957 | 16           | 3           | 0           | 15         | 19.62        |
| DZ                      | 2958 | 16           | 3           | 0           | -5         | 0            |
|                         | 2959 | 16           | 3           | 0           | -5         | 7.36         |
|                         | 2960 | 16           | 3           | 0           | -5         | 14.75        |
|                         | 2961 | 16           | 3           | 0           | -5         | 19.65        |
| DZ                      | 2962 | 16           | 3           | 0           | -10        | 0            |
|                         | 2963 | 16           | 3           | 0           | -10        | 7.36         |
|                         | 2964 | 16           | 3           | 0           | -10        | 14.75        |
|                         | 2965 | 16           | 3           | 0           | -10        | 19.64        |
| DR                      | 2966 | 16           | 3           | 0           | -15        | 0            |
| DZ                      | 2967 | 16           | 3           | 0           | -15        | 0            |
|                         | 2968 | 16           | 3           | 0           | -15        | 7.36         |
|                         | 2969 | 16           | 3           | 0           | -15        | 14.76        |
|                         | 2970 | 16           | 3           | 0           | -15        | 19.67        |
| DR                      | 2971 | 16           | 3           | 10          | 0          | 0            |
| DZ                      | 2972 | 16           | 3           | 10          | 0          | 0            |
|                         | 2973 | 16           | 3           | 10          | 0          | 7.37         |
|                         | 2974 | 16           | 3           | 10          | 0          | 14.75        |
|                         | 2975 | 16           | 3           | 10          | 0          | 19.56        |
| DZ                      | 2976 | 16           | 3           | 10          | -5         | 0            |
|                         | 2977 | 16           | 3           | 10          | -5         | 7.36         |
|                         | 2978 | 16           | 3           | 10          | -5         | 14.76        |
|                         | 2979 | 16           | 3           | 10          | -5         | 19.60        |
| DZ                      | 2980 | 16           | 3           | 10          | -10        | 0            |
|                         | 2981 | 16           | 3           | 10          | -10        | 7.36         |
|                         | 2982 | 16           | 3           | 10          | -10        | 14.75        |
|                         | 2983 | 16           | 3           | 10          | -10        | 19.69        |
| DZ                      | 2984 | 16           | 3           | 10          | -15        | 0            |
|                         | 2985 | 16           | 3           | 10          | -15        | 7.36         |
|                         | 2986 | 16           | 3           | 10          | -15        | 7.36         |
|                         | 2987 | 16           | 3           | 10          | -15        | 14.75        |
|                         | 2988 | 16           | 3           | 10          | -15        | 19.69        |
| DZ                      | 2989 | 16           | 3           | 10          | 5          | 0            |
|                         | 2990 | 16           | 3           | 10          | 5          | 7.36         |
|                         | 2991 | 16           | 3           | 10          | 5          | 14.76        |
|                         | 2992 | 16           | 3           | 10          | 5          | 19.68        |
| DZ                      | 2993 | 16           | 3           | 10          | 10         | 0            |
|                         | 2994 | 16           | 3           | 10          | 10         | 7.36         |
|                         | 2995 | 16           | 3           | 10          | 10         | 14.74        |
|                         | 2996 | 16           | 3           | 10          | 10         | 19.67        |
| DZ                      | 2997 | 16           | 3           | 10          | 15         | 0            |
|                         | 2998 | 16           | 3           | 10          | 15         | 7.36         |
|                         | 2999 | 16           | 3           | 10          | 15         | 14.76        |
|                         | 3000 | 16           | 3           | 10          | 15         | 19.65        |
| DR                      | 3001 | 16           | 3           | 10          | 15         | 0            |

\* Indicates model was close to heave stop  
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TABLE B.41 CHRONOLOGICAL RUN DIRECTORY

| Run                     | Radius<br>ft       | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps |
|-------------------------|--------------------|-------------|-------------|------------|--------------|
| 20 Degree Deadrise Hull |                    |             |             |            |              |
| DR 3002                 | 16                 | 3           | 20          | 0          | 0            |
| DZ 3003                 | 16                 | 3           | 20          | 0          | 0            |
| 3004                    | 16                 | 3           | 20          | 0          | 7.36         |
| 3005                    | 16                 | 3           | 20          | 0          | 14.74        |
| 3006                    | 16                 | 3           | 20          | 0          | 19.66        |
| DZ 3007                 | 16                 | 3           | 20          | 5          | 0            |
| 3008                    | 16                 | 3           | 20          | 5          | 7.36         |
| 3009                    | 16                 | 3           | 20          | 5          | 14.76        |
| 3010                    | 16                 | 3           | 20          | 5          | 19.65        |
| 3011-3019               | Calibration checks |             |             |            |              |
| DR 3020                 | 16                 | 0           | 0           | 0          | 0            |
| DR 3021                 | 16                 | 0           | 0           | 0          | 0            |
| DR 3022                 | 16                 | 3           | 20          | 10         | 0            |
| DR 3023                 | 16                 | 3           | 20          | 10         | 0            |
| DZ 3024                 | 16                 | 3           | 20          | 10         | 0            |
| 3025                    | 16                 | 3           | 20          | 10         | 7.34         |
| 3026                    | 16                 | 3           | 20          | 10         | 14.68        |
| 3027                    | 16                 | 3           | 20          | 10         | 19.52        |
| 3028                    | 16                 | 3           | 20          | 10         | 19.66        |
| DZ 3029                 | 16                 | 3           | 20          | 15         | 0            |
| 3030                    | 16                 | 3           | 20          | 15         | 7.33         |
| 3031                    | 16                 | 3           | 20          | 15         | 14.69        |
| 3032                    | 16                 | 3           | 20          | 15         | 19.67        |
| DZ 3033                 | 16                 | 3           | 20          | -5         | 0            |
| 3034                    | 16                 | 3           | 20          | -5         | 7.34         |
| 3035                    | 16                 | 3           | 20          | -5         | 14.72        |
| 3036                    | 16                 | 3           | 20          | -5         | 19.71        |
| DZ 3037                 | 16                 | 3           | 20          | -10        | 0            |
| 3038                    | 16                 | 3           | 20          | -10        | 7.34         |
| 3039                    | 16                 | 3           | 20          | -10        | 14.71        |
| 3040                    | 16                 | 3           | 20          | -10        | 19.75        |
| 3041                    | 16                 | 3           | 20          | -10        | 19.64        |
| DZ 3042                 | 16                 | 3           | 20          | -15        | 0            |
| 3043                    | 16                 | 3           | 20          | -15        | 7.34         |
| 3044                    | 16                 | 3           | 20          | -15        | 14.72        |
| 3045                    | 16                 | 3           | 20          | -15        | 19.67        |
| DR 3046                 | 16                 | 3           | -10         | 0          | 0            |
| DZ 3047                 | 16                 | 3           | -10         | 0          | 0            |
| 3048                    | 16                 | 3           | -10         | 0          | 7.34         |
| 3049                    | 16                 | 3           | -10         | 0          | 14.73        |
| 3050                    | 16                 | 3           | -10         | 0          | 19.67        |
| DZ 3051                 | 16                 | 3           | -10         | 5          | 0            |
| 3052                    | 16                 | 3           | -10         | 5          | 7.35         |
| 3053                    | 16                 | 3           | -10         | 5          | 14.72        |
| 3054                    | 16                 | 3           | -10         | 5          | 14.73        |
| 3055                    | 16                 | 3           | -10         | 5          | 19.67        |
| DZ 3056                 | 16                 | 3           | -10         | 10         | 0            |
| 3057                    | 16                 | 3           | -10         | 10         | 7.35         |
| 3058                    | 16                 | 3           | -10         | 10         | 14.71        |
| 3059                    | 16                 | 3           | -10         | 10         | 19.66        |

\* Indicates model was close to heave stop

TABLE B.42 CHRONOLOGICAL RUN DIRECTORY

|                         | Run    | Radius<br>ft | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps |
|-------------------------|--------|--------------|-------------|-------------|------------|--------------|
| 20 Degree Deadrise Hull |        |              |             |             |            |              |
|                         | 3060   | 16           | 3           | -10         | 15         | 7.35         |
| DZ                      | 3061   | 16           | 3           | -10         | 15         | 0            |
|                         | 3062 * | 16           | 3           | -10         | 15         | 14.71        |
| DR                      | 3063   | 16           | 3           | -10         | 15         | 0            |
| DZ                      | 3064   | 16           | 3           | -10         | -5         | 0            |
|                         | 3065   | 16           | 3           | -10         | -5         | 7.34         |
|                         | 3066   | 16           | 3           | -10         | -5         | 14.72        |
|                         | 3067   | 16           | 3           | -10         | -5         | 19.69        |
| DZ                      | 3068   | 16           | 3           | -10         | -10        | 0            |
|                         | 3069   | 16           | 3           | -10         | -10        | 7.34         |
|                         | 3070   | 16           | 3           | -10         | -10        | 14.72        |
|                         | 3071   | 16           | 3           | -10         | -10        | 19.67        |
| DZ                      | 3072   | 16           | 3           | -10         | -15        | 0            |
|                         | 3073   | 16           | 3           | -10         | -15        | 7.35         |
|                         | 3074   | 16           | 3           | -10         | -15        | 14.71        |
|                         | 3075   | 16           | 3           | -10         | -15        | 19.62        |
| DR                      | 3076   | 16           | 3           | -10         | -15        | 0            |
| DR                      | 3077   | 16           | 6           | 0           | 0          | 0            |
| DR                      | 3078   | 16           | 6           | 0           | 0          | 0            |
| DZ                      | 3079   | 16           | 6           | 0           | 0          | 0            |
| DR                      | 3080   | 16           | 6           | 0           | 0          | 0            |
|                         | 3081   | 16           | 6           | 0           | 0          | 14.70        |
|                         | 3082   | 16           | 6           | 0           | 0          | 7.34         |
|                         | 3083   | 16           | 6           | 0           | 0          | 19.62        |
| DR                      | 3084   | 16           | 6           | 0           | 5          | 0            |
|                         | 3085   | 16           | 6           | 0           | 5          | 7.34         |
|                         | 3086   | 16           | 6           | 0           | 5          | 14.70        |
|                         | 3087   | 16           | 6           | 0           | 5          | 19.63        |
| DR                      | 3088   | 16           | 6           | 0           | 10         | 0            |
| DR                      | 3089   | 16           | 6           | 0           | 10         | 0            |
|                         | 3090   | 16           | 6           | 0           | 10         | 7.34         |
|                         | 3091   | 16           | 6           | 0           | 10         | 14.71        |
|                         | 3092   | 16           | 6           | 0           | 10         | 19.62        |
| DZ                      | 3093   | 16           | 6           | 0           | 15         | 0            |
|                         | 3094   | 16           | 6           | 0           | 15         | 7.34         |
|                         | 3095   | 16           | 6           | 0           | 15         | 14.73        |
|                         | 3096   | 16           | 6           | 0           | 15         | 19.62        |
| DZ                      | 3097   | 16           | 6           | 0           | -5         | 0            |
|                         | 3098   | 16           | 6           | 0           | -5         | 7.34         |
|                         | 3099   | 16           | 6           | 0           | -5         | 14.71        |
|                         | 3100   | 16           | 6           | 0           | -5         | 19.63        |
| DZ                      | 3101   | 16           | 6           | 0           | -10        | 0            |
|                         | 3102   | 16           | 6           | 0           | -10        | 7.34         |
|                         | 3103   | 16           | 6           | 0           | -10        | 14.49        |
|                         | 3104   | 16           | 6           | 0           | -10        | 14.73        |
|                         | 3105   | 16           | 6           | 0           | -10        | 19.62        |
| DZ                      | 3106   | 16           | 6           | 0           | -15        | 0            |
|                         | 3107   | 16           | 6           | 0           | -15        | 7.34         |
|                         | 3108   | 16           | 6           | 0           | -15        | 14.73        |
|                         | 3109   | 16           | 6           | 0           | -15        | 19.63        |

\* Indicates model was close to heave stop

TABLE B.43 CHRONOLOGICAL RUN DIRECTORY

| Run                     | Radius<br>ft       | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps |
|-------------------------|--------------------|-------------|-------------|------------|--------------|
| 20 Degree Deadrise Hull |                    |             |             |            |              |
| 3110-3124               | Calibration checks |             |             |            |              |
| DZ 3125                 | 16                 | 6           | 10          | 0          | 0            |
| 3126                    | 16                 | 6           | 10          | 0          | 7.32         |
| 3127                    | 16                 | 6           | 10          | 0          | 14.68        |
| 3128                    | 16                 | 6           | 10          | 0          | 19.59        |
| DZ 3129                 | 16                 | 6           | 10          | 5          | 0            |
| 3130                    | 16                 | 6           | 10          | 5          | 7.32         |
| 3131                    | 16                 | 6           | 10          | 5          | 14.69        |
| 3132                    | 16                 | 6           | 10          | 5          | 19.59        |
| DR 3133                 | 16                 | 6           | 10          | 10         | 0            |
| DZ 3134                 | 16                 | 6           | 10          | 10         | 0            |
| 3135                    | 16                 | 6           | 10          | 10         | 7.33         |
| 3136                    | 16                 | 6           | 10          | 10         | 14.69        |
| 3137                    | 16                 | 6           | 10          | 10         | 19.61        |
| DZ 3138                 | 16                 | 6           | 10          | 15         | 0            |
| 3139                    | 16                 | 6           | 10          | 15         | 7.33         |
| 3140                    | 16                 | 6           | 10          | 15         | 14.70        |
| 3141                    | 16                 | 6           | 10          | 15         | 19.59        |
| DZ 3142                 | 16                 | 6           | 10          | -5         | 0            |
| 3143                    | 16                 | 6           | 10          | -5         | 7.33         |
| 3144                    | 16                 | 6           | 10          | -5         | 14.71        |
| 3145                    | 16                 | 6           | 10          | -5         | 19.57        |
| DZ 3146                 | 16                 | 6           | 10          | -10        | 0            |
| 3147                    | 16                 | 6           | 10          | -10        | 7.33         |
| 3148                    | 16                 | 6           | 10          | -10        | 14.71        |
| 3149                    | 16                 | 6           | 10          | -10        | 19.59        |
| DZ 3150                 | 16                 | 6           | 10          | -15        | 0            |
| 3151                    | 16                 | 6           | 10          | -15        | 7.33         |
| 3152                    | 16                 | 6           | 10          | -15        | 14.72        |
| 3153                    | 16                 | 6           | 10          | -15        | 19.63        |
| DR 3154                 | 16                 | 6           | 10          | -15        | 0            |
| DR 3155                 | 16                 | 6           | 20          | 0          | 0            |
| DZ 3156                 | 16                 | 6           | 20          | 0          | 0            |
| 3157                    | 16                 | 6           | 20          | 0          | 7.34         |
| 3158                    | 16                 | 6           | 20          | 0          | 14.70        |
| 3159                    | 16                 | 6           | 20          | 0          | 19.60        |
| DZ 3160                 | 16                 | 6           | 20          | -5         | 0            |
| 3161                    | 16                 | 6           | 20          | -5         | 7.33         |
| 3162                    | 16                 | 6           | 20          | -5         | 14.70        |
| 3163                    | 16                 | 6           | 20          | -5         | 19.58        |
| DZ 3164                 | 16                 | 6           | 20          | -10        | 0            |
| 3165                    | 16                 | 6           | 20          | -10        | 7.34         |
| 3166                    | 16                 | 6           | 20          | -10        | 14.71        |
| 3167                    | 16                 | 6           | 20          | -10        | 19.61        |
| DZ 3168                 | 16                 | 6           | 20          | -15        | 0            |
| 3169                    | 16                 | 6           | 20          | -15        | 7.34         |
| 3170                    | 16                 | 6           | 20          | -15        | 14.73        |
| 3171                    | 16                 | 6           | 20          | -15        | 19.59        |

\* Indicates model was close to heave stop

TABLE B.44 CHRONOLOGICAL RUN DIRECTORY

|                         | Run       | Radius<br>ft       | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps |
|-------------------------|-----------|--------------------|-------------|-------------|------------|--------------|
| 20 Degree Deadrise Hull |           |                    |             |             |            |              |
| DZ                      | 3172      | 16                 | 6           | 20          | 5          | 0            |
|                         | 3173      | 16                 | 6           | 20          | 5          | 7.34         |
|                         | 3174      | 16                 | 6           | 20          | 5          | 14.71        |
|                         | 3175      | 16                 | 6           | 20          | 5          | 19.61        |
| DZ                      | 3176      | 16                 | 6           | 20          | 10         | 0            |
|                         | 3177      | 16                 | 6           | 20          | 10         | 7.34         |
|                         | 3178      | 16                 | 6           | 20          | 10         | 14.73        |
|                         | 3179      | 16                 | 6           | 20          | 10         | 19.62        |
| DZ                      | 3180      | 16                 | 6           | 20          | 15         | 0            |
|                         | 3181      | 16                 | 6           | 20          | 15         | 7.34         |
|                         | 3182      | 16                 | 6           | 20          | 15         | 14.73        |
|                         | 3183      | 16                 | 6           | 20          | 15         | 19.65        |
| DR                      | 3184      | 16                 | 6           | -10         | 0          | 0            |
| DR                      | 3185      | 16                 | 6           | -10         | 0          | 0            |
| DZ                      | 3186      | 16                 | 6           | -10         | 0          | 0            |
|                         | 3187      | 16                 | 6           | -10         | 0          | 7.36         |
|                         | 3188      | 16                 | 6           | -10         | 0          | 14.75        |
|                         | 3189      | 16                 | 6           | -10         | 0          | 19.64        |
| DZ                      | 3190      | 16                 | 6           | -10         | -5         | 0            |
|                         | 3191      | 16                 | 6           | -10         | -5         | 7.36         |
|                         | 3192      | 16                 | 6           | -10         | -5         | 14.72        |
|                         | 3193      | 16                 | 6           | -10         | -5         | 19.63        |
| DZ                      | 3194      | 16                 | 6           | -10         | -10        | 0            |
|                         | 3195      | 16                 | 6           | -10         | -10        | 7.35         |
|                         | 3196      | 16                 | 6           | -10         | -10        | 14.73        |
|                         | 3197      | 16                 | 6           | -10         | -10        | 19.65        |
| DZ                      | 3198      | 16                 | 6           | -10         | -15        | 0            |
|                         | 3199      | 16                 | 6           | -10         | -15        | 7.35         |
|                         | 3200      | 16                 | 6           | -10         | -15        | 14.75        |
|                         | 3201      | 16                 | 6           | -10         | -15        | 19.64        |
| DZ                      | 3202      | 16                 | 6           | -10         | 5          | 0            |
|                         | 3203      | 16                 | 6           | -10         | 5          | 7.35         |
|                         | 3204      | 16                 | 6           | -10         | 5          | 14.73        |
|                         | 3205      | 16                 | 6           | -10         | 5          | 19.65        |
| DZ                      | 3206      | 16                 | 6           | -10         | 10         | 0            |
|                         | 3207      | 16                 | 6           | -10         | 10         | 7.35         |
|                         | 3208      | 16                 | 6           | -10         | 10         | 14.73        |
|                         | 3209      | 16                 | 6           | -10         | 10         | 19.67        |
| DZ                      | 3210      | 16                 | 6           | -10         | 15         | 0            |
|                         | 3211      | 16                 | 6           | -10         | 15         | 7.35         |
|                         | 3212      | 16                 | 6           | -10         | 15         | 7.36         |
|                         | 3213      | 16                 | 6           | -10         | 15         | 14.74        |
| DR                      | 3214      | 16                 | 6           | -10         | 15         | 0            |
| DR                      | 3215      | 16                 | 6           | -10         | 15         | 0            |
| DR                      | 3216      | 16                 | 6           | -10         | 15         | 0            |
|                         | 3217-3229 | Calibration checks |             |             |            |              |
|                         | 3230-3277 | Air tare tests     |             |             |            |              |

End of 20 Degree Deadrise Hull at 16 ft radius

\* Indicates model was close to heave stop

TABLE B.45 CHRONOLOGICAL RUN DIRECTORY

| Run   | Radius<br>ft | Trim<br>deg | Roll<br>deg | Yaw<br>deg | Speed<br>fps |
|---|--------------|-------------|-------------|------------|--------------|
| Resumption of 10 Degree Deadrise Hull at 16 ft Radius |              |             |             |            |              |
| 3278-3283 Calibration checks                          |              |             |             |            |              |
| DZ 3284   | 16           | 6           | -10         | 0          | 0            |
| 3285  | 16           | 6           | -10         | 0          | 7.34         |
| 3286  | 16           | 6           | -10         | 0          | 14.71        |
| 3287  | 16           | 6           | -10         | 0          | 19.62        |
| DZ 3288   | 16           | 6           | -10         | 5          | 0            |
| 3289  | 16           | 6           | -10         | 5          | 7.34         |
| DR 3290   | 16           | 6           | -10         | 5          | 0            |
| 3291  | 16           | 6           | -10         | 5          | 14.69        |
| 3292  | 16           | 6           | -10         | 5          | 19.59        |
| DZ 3293   | 16           | 6           | -10         | 10         | 0            |
| 3294  | 16           | 6           | -10         | 10         | 7.33         |
| 3295  | 16           | 6           | -10         | 10         | 14.69        |
| 3296  | 16           | 6           | -10         | 10         | 19.59        |
| DZ 3297   | 16           | 6           | -10         | 15         | 0            |
| 3298  | 16           | 6           | -10         | 15         | 7.33         |
| 3299  | 16           | 6           | -10         | 15         | 14.69        |
| DR 3300   | 16           | 6           | -10         | 15         | 0            |
| DZ 3301   | 16           | 6           | -10         | -5         | 0            |
| 3302  | 16           | 6           | -10         | -5         | 7.33         |
| 3303  | 16           | 6           | -10         | -5         | 14.70        |
| 3304  | 16           | 6           | -10         | -5         | 19.57        |
| DZ 3305   | 16           | 6           | -10         | -10        | 0            |
| 3306  | 16           | 6           | -10         | -10        | 7.33         |
| 3307  | 16           | 6           | -10         | -10        | 14.70        |
| 3308  | 16           | 6           | -10         | -10        | 19.58        |
| DZ 3309   | 16           | 6           | -10         | -15        | 0            |
| 3310  | 16           | 6           | -10         | -15        | 7.34         |
| 3311  | 16           | 6           | -10         | -15        | 14.70        |
| 3312  | 16           | 6           | -10         | -15        | 19.58        |

END OF TESTS

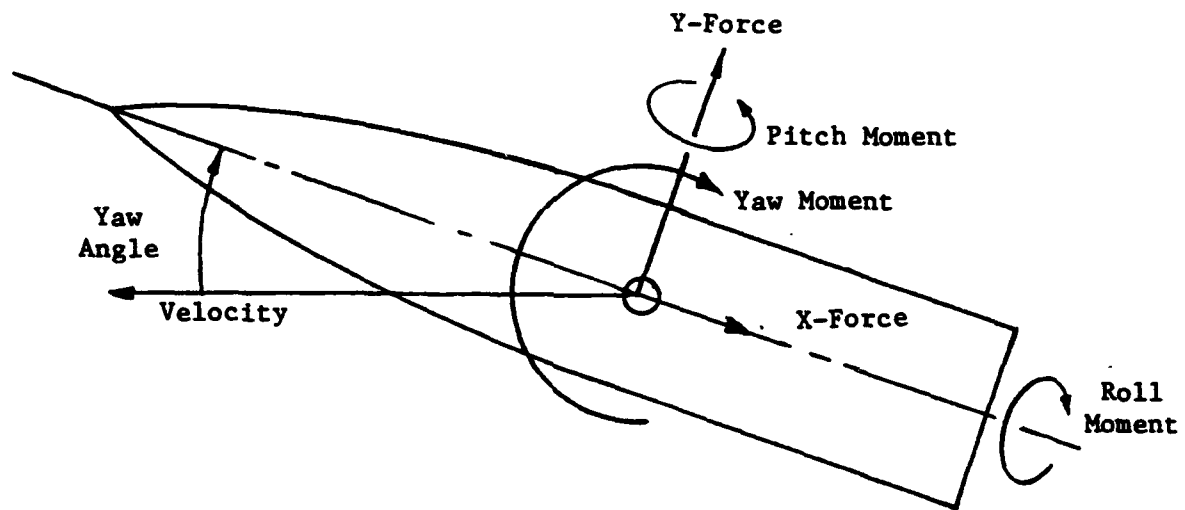
\* Indicates model was close to heave stop

B45/B46

## APPENDIX C

AXES SYSTEMS AND AIR TARES  
 Axes Coordinate Systems and Transformations

The model forces and moments were measured in balance axes with origin fixed in the model at a point 22.5 inches forward of the transom and 4.15 inches above the keel. The balance axes system rotates with the model in yaw and remains parallel to the water surface, with the z-axis vertical. This system is illustrated in Sketch C1 where the positive sense of the forces and moments is indicated. The hydrodynamic forces and moments acting on the model that are measured in balance axes are denoted by suffix "m". The vertical force,  $Z_m$ , is positive upward.

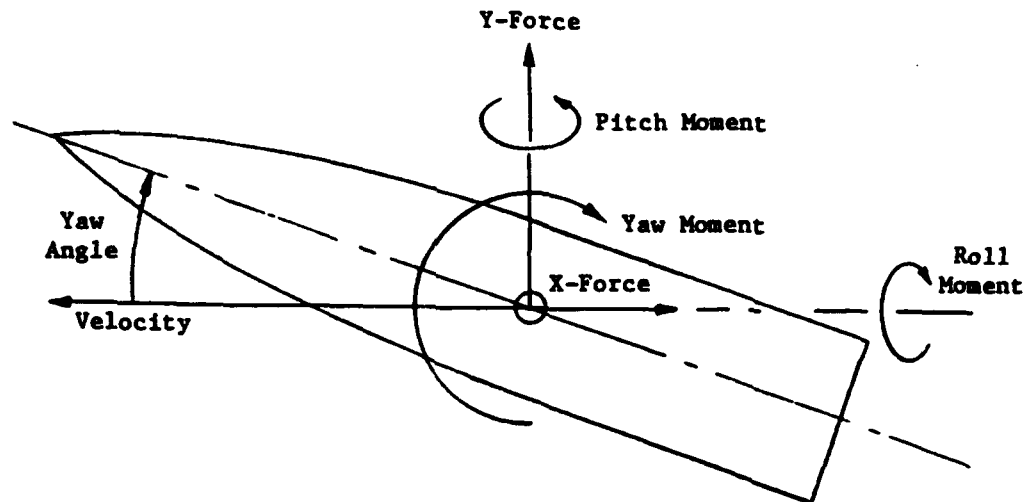


Sketch C1 - Measurement Axes

- $\phi$  roll angle, positive starboard-side down
- $\theta$  trim angle, positive bow up
- $\psi$  yaw angle, positive bow to starboard
- $X_m$  longitudinal force, positive aft
- $Y_m$  side force, positive to starboard
- $Z_m$  vertical force, positive upward
- $K_m$  roll moment, positive starboard-side down
- $M_m$  pitch moment, positive bow up
- $N_m$  yaw moment, positive bow to starboard

### Transformation to Wind Axes

The "raw" data is reported in a wind axes with the same origin fixed in the model. The wind axes system is also oriented parallel to the water surface, however the x-axis is parallel to the resultant velocity vector and does not yaw with the model. The forces and moments in the wind axes system have the same positive senses as in the balance axes. The wind axes system is shown in Sketch C2:



Sketch C2 - Wind Axes

The forces and moments in wind axes are denoted by suffix "w". The transformation equations from balance axes to wind axes are given below:

$$X_w = X_m \cos\psi + Y_m \sin\psi \quad (C.1)$$

$$Y_w = Y_m \cos\psi - X_m \sin\psi \quad (C.2)$$

$$Z_w = Z_m = \text{model displacement} \quad (C.3)$$

$$K_w = K_m \cos\psi - M_m \sin\psi \quad (C.4)$$

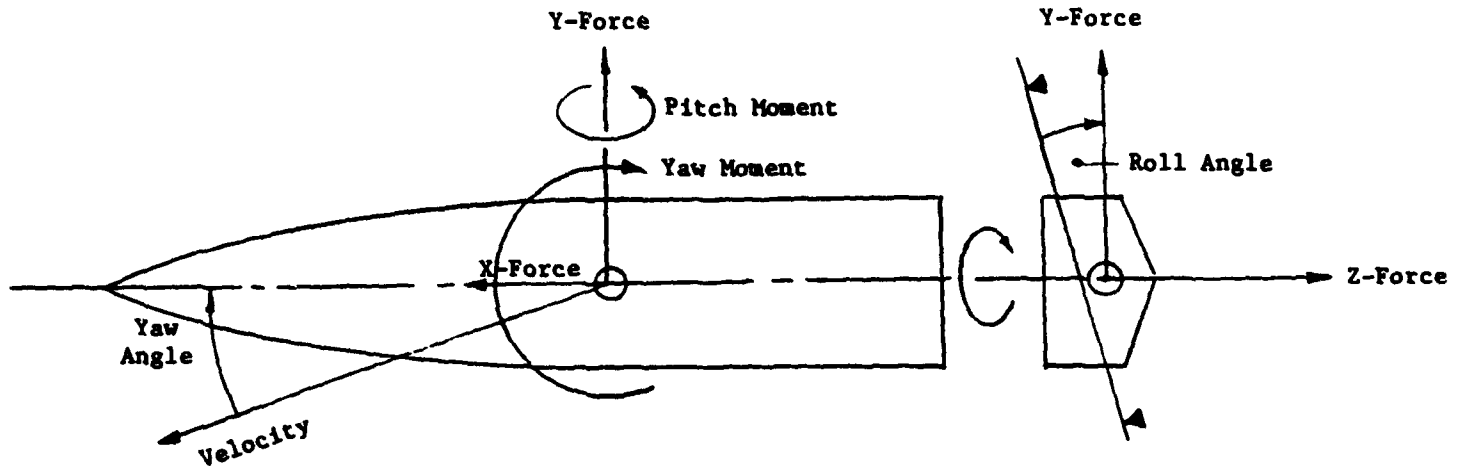
$$M_w = M_m \cos\psi + K_m \sin\psi \quad (C.5)$$

$$N_w = N_m \quad (C.6)$$

### Transformation to Body Axes at the Tow Point

The body axes system is a rational right-handed system fixed in the boat with the same origin as the wind axes. This axes system moves with the model in roll, pitch, and yaw. Sketch C3 indicates the positive sense of the

forces and moments. While the sense of the moments has not changed, it may be noted that now the axial force is positive forward and the normal force is positive from the deck towards the keel.



Sketch C3 - Body Axes

A preliminary transformation is made to turn the wind axes system into a rational set by reversing the signs of  $X_w$  and  $Z_w$ :

$$X_r = - X_w \quad (C.7)$$

$$Z_r = - Z_w \quad (C.8)$$

The forces and moments in body axes are denoted by suffix "b":

$$X_b = X_r \cos\theta \cos\psi + Y_w \cos\theta \sin\psi - Z_r \sin\theta \quad (C.9)$$

$$Y_b = X_r (\sin\phi \sin\theta \cos\psi - \cos\phi \sin\psi) + Y_w (\sin\phi \sin\theta \sin\psi + \cos\phi \cos\psi) + Z_r \sin\phi \cos\theta \quad (C.10)$$

$$Z_b = X_r (\cos\phi \sin\theta \cos\psi + \sin\phi \sin\psi) + Y_w (\cos\phi \sin\theta \sin\psi - \sin\phi \cos\psi) + Z_r \cos\phi \cos\theta \quad (C.11)$$

$$K_b = K_w \cos\theta \cos\psi + M_w \cos\theta \sin\psi - N_r \sin\theta \quad (C.12)$$

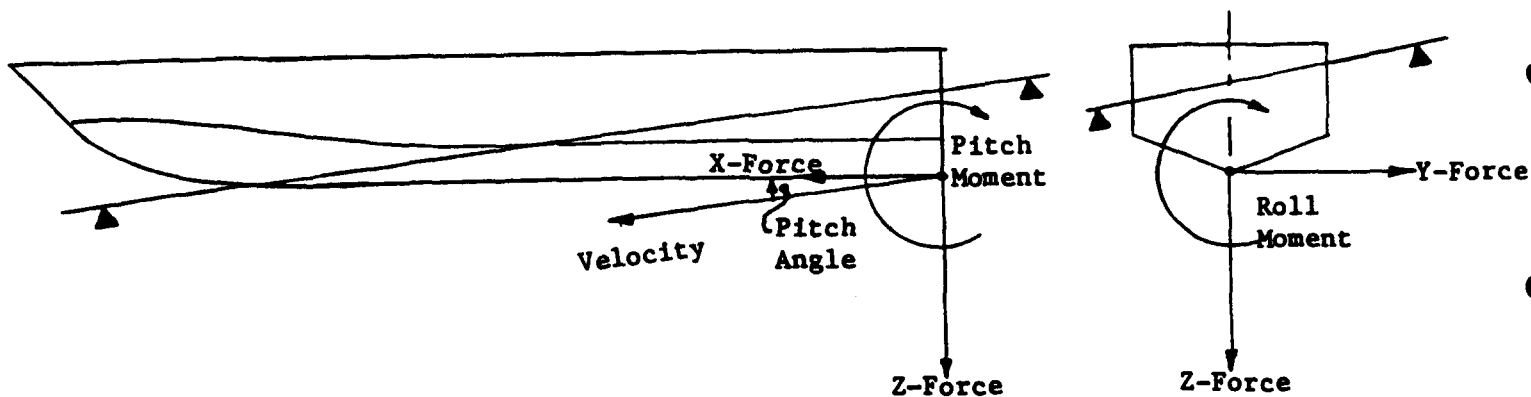
$$M_b = K_w (\sin\phi \sin\theta \cos\psi - \cos\phi \sin\psi) + M_w (\cos\phi \sin\theta \sin\psi - \sin\phi \cos\psi) + N_w \cos\phi \cos\theta \quad (C.13)$$

$$N_b = K_w (\cos\phi \sin\theta \cos\psi + \sin\phi \sin\psi) + M_w (\cos\phi \sin\theta \sin\psi - \sin\phi \cos\psi) + N_w \cos\phi \cos\theta \quad (C.14)$$



### Translation of Body Axes from Tow Point to New Origin

The final step needed is to translate the origin of the body axes system from the tow point to the keel at transom. This system is illustrated in Sketch C4



Sketch C4 - Body Axes at Keel at Transom

The forces and moments in the translated body axes system are denoted by suffix "bt":

$$X_{bt} = X_b \quad (C.15)$$

$$Y_{bt} = Y_b \quad (C.16)$$

$$Z_{bt} = Z_b \quad (C.17)$$

$$K_{bt} = K_b + z_t Y_b - y_t Z_b \quad (C.18)$$

$$M_{bt} = M_b - z_t X_b + x_t Z_b \quad (C.19)$$

$$N_{bt} = N_b + y_t X_b - x_t Y_b \quad (C.20)$$

where  $(x_t, y_t, z_t)$  is the position of the new origin in the original reference system. The new origin, defined by the keel at transom, is 1.875 ft aft of the tow point, and 0.3458 ft below it. Both origins lie in the plane of symmetry. Therefore the position of the new origin is given by:

$$(x_t, y_t, z_t) = (-1.875, 0, 0.3458) \quad (C.20)$$

## Air Tares

The forces and moments measured with the model in the air were transferred to wind axes and plotted. It was confirmed that these data varied as the square of the speed. Accordingly the results were adjusted to a speed of 19.64 fps by multiplying them by the square of the ratio (19.64/V), where V was the test speed. From plots of this expanded data it was determined that the air tares varied with yaw angle and were essentially independent of trim and roll. Regression analyses of the expanded data resulted in the following expressions for the air tares at 19.64 fps:

## Air Tare Equations for the 10 degree Deadrise Model

| 16 ft Radius               | 32 ft Radius               | Straight Course           |
|----------------------------|----------------------------|---------------------------|
| $X = -0.02 + 0.0067 \psi $ | $X = 0.32 + 0.0072 \psi$   | $X = 0.27$                |
| $Y = -24.50 + 0.0276 \psi$ | $Y = -11.59 + 0.0123 \psi$ | $Y = 0.0 + 0.0171 \psi$   |
| $K = -3.97 + 0.0208 \psi$  | $K = -1.93 - 0.0014 \psi$  | $K = 0.16$                |
| $M = -0.30 + 0.0009 \psi$  | $M = 0.01 + 0.0101 \psi$   | $M = 0.0$                 |
| $N = 0.10 + 0.0049 \psi$   | $N = 0.06 + 0.0111 \psi$   | $N = -0.04 + 0.0161 \psi$ |

## Air Tare Equations for the 20 degree Deadrise Model

|                            |                            |                           |
|----------------------------|----------------------------|---------------------------|
| $X = 0.03 + 0.0121 \psi $  | $X = 0.27 + 0.0051 \psi$   | $X = 0.27$                |
| $Y = -24.12 + 0.0335 \psi$ | $Y = -11.46 + 0.0205 \psi$ | $Y = 0.0 + 0.0171 \psi$   |
| $K = -4.10 + 0.0218 \psi$  | $K = -1.81 + 0.0007 \psi$  | $K = 0.16$                |
| $M = -0.22 - 0.0112 \psi$  | $M = 0.02 + 0.0124 \psi$   | $M = 0.0$                 |
| $N = 0.02 + 0.0076 \psi$   | $N = 0.07 + 0.0099 \psi$   | $N = -0.04 + 0.0161 \psi$ |

As a check, the forces and moments calculated from these equations were subtracted from the air tares and the resulting residuals examined. The residuals were sufficiently small to show that a satisfactory fit had been obtained. The averages of the residuals, and their standard deviations, are shown in the following table at each condition:

## Air Tare Residuals for the 10 degree Deadrise Model

|   | 16 ft Radius |                    | 32 ft Radius |                    | Straight Course |                    |
|---|--------------|--------------------|--------------|--------------------|-----------------|--------------------|
|   | Average      | Standard deviation | Average      | Standard deviation | Average         | Standard deviation |
| X | 0.026        | 0.063              | -0.002       | 0.041              | 0.011           | 0.031              |
| Y | 0.001        | 0.060              | 0.018        | 0.090              | 0.005           | 0.017              |
| K | 0.015        | 0.091              | 0.009        | 0.030              | 0.030           | 0.079              |
| M | 0.051        | 0.069              | -0.006       | 0.037              | -0.013          | 0.037              |
| N | -0.007       | 0.060              | -0.013       | 0.042              | 0.004           | 0.013              |

## Air Tare Residuals for the 20 degree Deadrise Model

|   | 16 ft Radius |                    | 32 ft Radius |                    | Straight Course |                    |
|---|--------------|--------------------|--------------|--------------------|-----------------|--------------------|
|   | Average      | Standard deviation | Average      | Standard deviation | Average         | Standard deviation |
| X | 0.000        | 0.072              | 0.004        | 0.025              | -               | -                  |
| Y | 0.001        | 0.067              | 0.035        | 0.072              | -               | -                  |
| K | 0.003        | 0.265              | 0.000        | 0.065              | -               | -                  |
| M | -0.005       | 0.114              | 0.002        | 0.026              | -               | -                  |
| N | -0.003       | 0.045              | 0.005        | 0.026              | -               | -                  |

The following test condition has been selected to illustrate the removal of the air tares:

|           |            |
|-----------|------------|
| Deadrise  | 20 degrees |
| Radius    | 32 ft      |
| Speed, Cv | 3          |
| Trim      | 3 degrees  |
| Roll      | 10 degrees |
| Yaw       | 10 degrees |

By reference to the Run Directory, Table 2.213, this condition corresponds to Run 189. The raw data are given in Table A1.213.2, and Run 189 is shown to have a speed of 14.77 fps, hence the 19.64 fps air tares must be multiplied by a factor of 0.566. The air tares given by the Air Tare

Equations are multiplied by the factor of 0.566 and subtracted from the raw data. The data without air tares are given in Table 5.213.2. The air tare correction process for this one specific run is illustrated by the following table:

| Raw Data<br>with air tares<br>from Table A1.213.2<br>Run 189 | Air Tare<br>corrections<br>from A.T. Equations<br>multiplied by 0.566 | Wind Axes Data<br>without air tares<br>from Table 11.213.2<br>Run 189 |
|--|---|---|
| X = 2.98   | 0.18  | 2.80  |
| Y = -1.73  | -6.36   | 4.63  |
| K = 0.17   | -1.02   | 1.19  |
| M = -5.14  | 0.08  | -5.22   |
| N = -2.94  | 0.10  | -3.04   |