

# DATA ITEM DESCRIPTION

Form Approved  
OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Head-quarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-01888), Washington, DC 20503.

<b>1. TITLE</b> WEIGHT AND STABILITY REPORTS FOR IN-SERVICE SURFACE SHIPS		<b>2. IDENTIFICATION NUMBER</b> DI-GDRQ- 81404	
<b>3. DESCRIPTION/PURPOSE</b> 3.1 Weight and Stability reporting is required for in-service ships to ensure that ship's weight and height of center of gravity above the bottom of the keel (KG) values are within the Naval Architectural limits and that stability characteristics are not compromised, as a result of authorized alterations. It provides the basis for planning for correction or compensation for adverse conditions.			
<b>4. APPROVAL DATE</b> (YYMMDD) 940726	<b>5. OFFICE OF PRIMARY RESPONSIBILITY (OPR)</b> NAVSEA 03H2 (N)	<b>6a. DTIC APPLICABLE</b>	<b>6b. GIDEP APPLICABLE</b>
<b>7. APPLICATION/INTERRELATIONSHIP</b> 7.1 This Data Item Description (DID) contains the format and content preparation instructions for the data product generated by the specific and discrete task requirement as delineated in the contract.			
<b>8. APPROVAL LIMITATION</b>		<b>9a. APPLICABLE FORMS</b>	<b>9b. AMSC NUMBER</b> N7038
<b>10. PREPARATION INSTRUCTIONS</b> 10.1 Format. The report shall be presented on 8-1/2 by 11 inch bond paper, and shall be protected by covers, but not permanently bound. Non-text numerical material should be presented in tabular format whenever feasible.  10.1.1 Media format requirements shall be as specified in the contract.  10.2 Content. The report shall contain:  10.2.1 A table of contents.  10.2.2 For each ship, include light ship (Condition A) and full load (Condition D) displacement (in long tons), condition expected at the end of the availability and recommended ballast or compensation measures.  10.2.3 For each availability, a matrix or table showing SHIPALT number with title description (including MACHALTs, ORDALTs, and Field Changes). For each alteration, show weight added or removed (pounds), height of vertical center of gravity above baseline and associated moment, distance of the longitudinal center of gravity from the mid-perpendicular reference point and associated moment, and distance of the transverse center of gravity from the centerline and associated moment. All levers are carried to nearest hundredth of a foot and all moments are carried to nearest a foot-pound. Vertical levers shall be indicated by a "+" or a blank for above the baseline, and a "-" for below the baseline. Longitudinal levers shall be indicated by an "F" or a "-" for forward of the mid-perpendicular reference point, and an "A", a "+" or a blank for aft of the mid-perpendicular reference			
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<b>11. DISTRIBUTION STATEMENT</b> Distribution Statement A: Approved for public release; distribution is unlimited.			

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**Block 10. Preparation Instructions (continued)**

B:  
point. Transverse levers shall be indicated by a "P", a "-" or a blank for port, and an "S" or a "+" for starboard. When an alteration causes a change in loads, include in the table with the appropriate sign.

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10.2.4 By hull, a Stability Summary of:
- a. Full load displacement (long tons)
  - b. KG (feet)
  - c. Date of last inclining experiment
  - d. Current ballast installed (long tons)
  - e. Recommendations for inclining

10.2.5 Summaries for all required loading conditions, and their associated drafts (forward, aft, and mean), list, trim, KG, and metacentric height, uncorrected and corrected for free surface effect of liquids in tanks. Include effects of changes of loads as well as weight and moment of alteration installations.

10.2.6 Analysis and discussion of reasons for weight changes from prior reports, and recommendations for reversing unsatisfactory trends, such as exceeding established Naval Architectural limits. Include recommendations for weight removals for compensation, ballast adjustments, need for an inclining experiment, and impact of future alterations.

10.2.7 Background information, studies, directives, correspondence and all detailed calculations pertaining to weights, including density factors. Where applicable, include SHIPALT Weight and Moment Worksheets as background information.