

## 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 Headquarters 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 (0704-0188), Washington, DC 20503.

1. TITLE <b>DYNAMIC SHOCK ANALYSIS EXTENSION REQUEST</b>		2. IDENTIFICATION NUMBER <b>DI-ENVR-81279</b>	
3. DESCRIPTION / PURPOSE <b>3.1 The Dynamic Shock Analysis Extension Request provides information required to support the shock qualifications of shipboard equipment, foundations and/or systems based upon previously approved dynamic shock analyses.</b>			
4. APPROVAL DATE (YMMDD) <b>920728</b>	5. OFFICE OF PRIMARY RESPONSIBILITY (OPR) <b>N/SEA 55X21</b>	6a. DTIC APPLICABLE	6b. GIDEP APPLICABLE
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	9a. APPLICABLE FORMS	9b. AMSC NUMBER <b>N6770</b>	
10. PREPARATION INSTRUCTIONS <b>10.1 <u>Format</u>. The Dynamic Shock Analysis Extension Request shall be in Contractor's format.</b> <b>10.2 <u>Content</u>. The Dynamic Shock Analysis Extension Request shall include the following:</b> <b>10.2.1 <u>Identical Item</u>. If the design of a new item is identical to that of one previously approved by a dynamic shock analysis, the Dynamic Shock Analysis Extension Request shall include the following:</b> <b>10.2.1.1 A copy of the Mathematical Model Report and Dynamic Shock Analysis Report upon which the requested extension is based.</b> <b>10.2.1.2 A copy of the acceptance authority correspondence which conveyed approval of the previously analyzed equipment, foundation, and system. If not available, reference to the correspondence shall be identified.</b>			
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11. DISTRIBUTION STATEMENT <b>DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited.</b>			

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## BLOCK 10 - PREPARATION INSTRUCTIONS (Continued)

10.2.2 Similar Item. If the design of a new item is similar, but not identical, to that of a previously shock analyzed item or where the intended orientation or installation differences cannot be shown to be insignificant from a shock standpoint, the Dynamic Shock Analysis Extension Request shall include the following:

10.2.2.1 Detailed drawings of the tested and untested items and delineation of the shipboard installations and orientation of the items. The drawings shall be marked to clarify any design changes that have occurred between the old and new items.

10.2.2.2 A Mathematical Model Report and Dynamic Shock Analysis Report upon which the requested extension is based.

10.2.2.3 The acceptance authority correspondence which conveyed approval of the previously analyzed equipment, foundation, and/or system. If not available, reference to the correspondence shall be identified.

10.2.2.4 The detailed evaluation of the design, service, orientation and installation differences of the analyzed and unanalyzed items, as required by 10.2.3 below.

10.2.2.5 Applicable military specifications and associated dates of issue for the original analyzed item.

10.2.3 Comparison. The Dynamic Shock Analysis Extension Request shall also include the following:

10.2.3.1 Design differences between the new and previously analyzed item.

10.2.3.2 Differences in shape, orientation, weight, and material composition of parts or assemblies and differences in fabrication or construction.

10.2.3.3 Differences in allowable stress and deflection criteria.

10.2.3.4 Differences in continuous operating loads such as torque and system pressure.

10.2.4 Calculations. The results of engineering calculations performed in support of these requirements shall also be included. Engineering assumptions attendant to these calculations shall be stated.