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DATA ITEM DESCRIPTION

Form Approved
OMB No. 0704-0188

2. TITLE	1. IDENTIFICATION NUMBER
Analysis Report, Dynamic Shock	DI-ENVR- 81030

3. DESCRIPTION / PURPOSE

3.1 This report demonstrates the ability of equipment, structures, and systems to resist shock as defined by the Dynamic Design Analysis Method (DDAM).

3.2 This report is used in conjunction with the Mathematical Model Report when an item's resistance to shock cannot be determined by testing or extension.

4. APPROVAL DATE (YYMMDD)	5. OFFICE OF PRIMARY RESPONSIBILITY (OPR)	6a. DTIC APPLICABLE	6b. GIDEP APPLICABLE
900926	SH/55X13		

7. APPLICATION / INTERRELATIONSHIP

7.1 This Data Item Description contains the format and content preparation instructions for the data product generated by the specific and discrete work task requirement as delineated in the contract.

7.2 This Data Item Description supersedes UDI-E-23122A.

8. APPROVAL LIMITATION	9a. APPLICABLE FORMS	9b. AMSC NUMBER
		N4988

10. PREPARATION INSTRUCTIONS

10.1 Format. The report shall be in contractor's format.

10.2 Content. The report shall contain the following information:

10.2.1 A printout of the input data used in the analysis. This data shall include all nodal point locations, element connectivity, material properties, element properties and mass distribution. This data shall be in agreement with data provided in the Mathematical Model Report.

10.2.2 The frequency, modal effective weight, shock input and participation factor for each mode considered in the stress and deflection calculations. Additionally, mode shapes, and associated forces and deflections shall be included in the report.

10.2.3 Calculations for stresses and deflections at those specific areas of concern of the equipment or structure under shock loading, as defined in the Mathematical Model Report. References to the source of data used in these calculations shall be provided. Drawings which aid in an independent review of the calculations shall be provided. If no drawings are available, sketches shall be provided.

10.2.4 Tabulated summaries of calculated and allowable stresses and deflections. These summaries shall include the sources of the tabulated stresses and deflections (e.g., tensile, shear and operating loads).

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11. DISTRIBUTION STATEMENT

11. Distribution Statement A: Approved for public release; distribution is unlimited.

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Block 10: Preparation Instructions (Continued):

10.2.5 A comprehensive analysis of the foundation, when the foundation is supplied by the equipment vendor. When the foundation is provided by the shipbuilder, the vendor shall provide a summary of the shock forces into the foundation for use by the shipbuilder in his analysis.