

DATA ITEM DESCRIPTION			Form Approved OMB No. 0704-0188	
2. TITLE REQUEST FOR USE OF GOVERNMENT-OWNED SHOCK TEST FACILITIES		1. IDENTIFICATION NUMBER DI-ENVR-80707		
3. DESCRIPTION/PURPOSE 3.1 The Request for Use of Government-Owned Shock Test Facilities provides detailed item descriptive data, shock-testing requirements, and scheduling requirements. It is used to support selection of the appropriate test facility and to ensure orderly scheduling of Government facilities.				
4. APPROVAL DATE (YYMMDD) 881121	5. OFFICE OF PRIMARY RESPONSIBILITY (OPR) SH	6a. DTIC APPLICABLE	6b. GIDEP APPLICABLE	
7. APPLICATION/INTERRELATIONSHIP 7.1 This data item description (DID) contains the format and content preparation instructions for the Request for Use of Government-Owned Shock Test Facilities resulting from the work task described by 3.1.15 of MIL-S-901 (NAVY). 7.2 This request applies whenever the contractor certifies that commercial shock test facilities are not available, or certification that applicable acquisition documents require testing by a Government-owned facility. 7.3 This data item description supersedes UD1-A-23026A.				
8. APPROVAL LIMITATION		9a. APPLICABLE FORMS		9b. ANSC NUMBER N4573
10. PREPARATION INSTRUCTIONS 10.1 <u>Reference Documents</u> . The applicable issue of the documents cited herein, including their approval dates and dates of any applicable amendments, notices, and revisions, shall be as specified in the contract. 10.2 <u>Content requirements</u> . The following information shall be included in the request for use of Government-owned test facilities. 10.2.1 <u>Certification</u> . The request shall include certification that suitable commercial facilities are not available, or certification that applicable acquisition documents require testing by a Government-owned facility. 10.2.2 <u>Equipment identification</u> . The request shall include the following identification information. a. Item. (1) Name (2) Type (3) Nomenclature (4) Rating (5) Service (6) Military specification and technical manual numbers b. Manufacturer (name and address). c. Model number and serial number. d. Size or capacity (if applicable). e. Plan numbers (sectional assembly and outline; revision and date). <div style="text-align: right;">(Continued on Page 2)</div>				
11. DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited.				

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Block 10, Preparation Instructions (Continued)

- f. Approximate overall size of equipment
- g. Weight (wet, dry, and total weight including test fixture, wet and dry).
- h. Height of center-of-gravity above base of equipment.
- i. Contract or purchase order number.
- j. Description of resilient mounts if used.
 - (1) Size
 - (2) Type
 - (3) Location
 - (4) Specification
- k. Major components and attached items in test (name, identification, manufacturer).

10.2.3 Outline drawing. Include an outline drawing of the item to be tested.

10.2.4 Test and installation requirements. The following information shall be included in the request:

- a. Test laboratory and address.
- b. Applicable shock grade.
- c. Equipment Class.
- d. Shock test type. If type B tests are required because the principal unit is too large or too heavy to permit shock testing, also describe how the principal unit shall be broken down into shock-testable groups of subsidiary components.
- e. Test category.
- f. Equipment mounting location, plane and orientation aboard ship.
- g. Method of mounting items for tests. Designate standard test fixtures to be used or describe the design of the required test fixture. Grade, size, material and other specification data for hold-down fasteners or locating devices shall be included. Include requirements for torquing of hold-down bolts.
- h. Method of simulating shipboard connections.
- i. Modes or conditions of equipment operation to be represented during tests (energized, de-energized (or both), pressurized, rated speed, temperatures, or other operating conditions). For lightweight shock test, state operating condition to be represented during each of the series of nine blows. For medium weight shock tests, state the operating mode to be represented during group I and II blows, and the operating mode or modes to be represented during group III blows. For heavyweight shock tests, state the operating mode to be represented during each test shot.
- j. Shock test acceptance criteria and associated post-test functional testing and inspection requirements. Define minimum acceptable performance of grade A items during and following shock tests, such as extent of momentary malfunction, if permitted, and degree of permanent functional impairment allowed. State requirements applicable to important characteristics such as alignment, dielectric strength, and pressure-tight integrity. Furnish supplemental grade B acceptance criteria, if applicable. Identify requirements for monitoring equipment during tests and for functional testing and inspection after tests as required to demonstrate compliance with acceptance criteria.
- k. Acceptance authority or authorities.

10.2.5 Supplemental Data. The following supplemental requirements data, if such data is furnished by applicable purchase documents, shall be included in the request.

- a. Shock test category or limitations upon selection of shock test category.
- b. Requirements for acceptance authority approval of ordering data developed by the contractor for lightweight or medium weight shock tests.
- c. Permission or requirements to utilize the large floating shock platform or other Government-owned shock test facilities.

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Block 10, Preparation Instructions (Continued)

- d. Additional requirements for selection of standard test fixtures or for design of nonstandard test fixtures by the contractor, including specific criteria to simulate shipboard mounting conditions.
- e. Permission to shock test Class III items in the rigidly mounted configuration only.
- f. Specific requirements for weight or design of dummy masses.
- g. Permission or requirements to simulate one or more of a group of identical subsidiary components or subassemblies.
- h. Requirements for heavyweight shock test shots at standoffs greater than shot 1 standoff.
- i. Specific requirements for partial simulation of operating conditions during shock tests in cases where it is not practical to fully simulate shipboard operating conditions.
- j. Additional limitations upon allowable loosening of fasteners.
- k. Special post-shock test noise and vibration criteria.
- l. Requirements for supplemental pre-delivery testing or examination of shock tested items.
- m. Requirements for disposition of shock tested items.
- n. Additional criteria applicable to shock test extension.
- o. Special requirements for marking of drawings.
- p. Number of articles requiring tests.
- q. Requirements for witnessing of lightweight or medium weight shock tests or associated post-test inspections.
- r. Requirements for additional distribution of high-impact shock test procedures.
- s. Requirements for additional distribution of shock test reports.
- t. Requirements for additional distribution of shock test extension requests.

10.2.6 Scheduling requirements. The request shall include scheduling requirements pertaining to equipment delivery, pre-test inspections, installation, inspections between tests, post-test inspections, post-test operating tests (if to be conducted at a Government facility), and shipment of equipment from the test facility.

10.2.7 Unusual requirements. State unusual or special precautions associated with the shock test, if any.

10.2.8 Shock test instrumentation. State requirements for shock test instrumentation, if any.

10.3 Format requirements. The request shall be in contractor's format on 8 1/2" X 11" sheets (metric size A4).