

**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		2. IDENTIFICATION NUMBER	
Tests And Analyses Reports, Vibration, Reciprocating Machinery, Propulsion System And Shafting		DI-ENVR - 81549	
3. DESCRIPTION / PURPOSE			
3.1 These data are to be used to determine if excessive vibratory responses exist within the system under consideration. A mathematical analysis is performed to establish probable compliance with the prescribed acceptance criteria. The system is tested to confirm that the vibratory responses are within the acceptable criteria.			
4. APPROVAL DATE (YYMMDD) 970422	5. OFFICE OF PRIMARY RESPONSIBILITY (OPR) NAVSEA 03T2/NAVSEA 03X11	6a. DTIC APPLICABLE	6b. GIDEP APPLICABLE
7. APPLICATION / INTERRELATIONSHIP			
7.1 This Data Item Description contains the format and content preparation instructions for vibration testing and analysis of reciprocating machinery, propulsion system and shafting to be conducted in accordance with MIL-STD-167-2A.			
7.2 This DID supersedes UD1-E-23116A.			
8. APPROVAL LIMITATION		9a. APPLICABLE FORMS	9b. AMSC NUMBER N7263
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>Format</u> . The report shall be in accordance with the contractor's format.			
10.3 <u>Content Requirements</u> . The reports shall include the following:			
a. The vibration analysis shall consist of items stated in paragraphs 30.1.1.1, 30.2.1.1 and 30.3.1 of MIL-STD-167-2A, Appendix A.			
b. The results of vibration testing shall be included and shall consist of items specified in paragraphs 30.1 and 30.2 of MIL-STD-167-2A, Appendix B.			
c. Vibratory stress, torque, load and deflection plots shall be included and shall contain the appropriate MIL-STD-167-2A limits, or the manufacturer's limits, as applicable.			
11. DISTRIBUTION STATEMENT			
NOFORN. DISTRIBUTION STATEMENT F. Further dissemination only as directed by Naval Sea Systems Command (SEA 09T2/SEA 08B).			