

# DATA ITEM DESCRIPTION

Form Approved  
OMB No. 0704-0181

<b>2. TITLE</b>  Vibration Survey Report		<b>1. IDENTIFICATION NUMBER</b>  DI-RELI-80248	
<b>3. DESCRIPTION/PURPOSE</b> 3.1 This report covers the results of specified vibration survey tests performed on equipment to determine if any resonant condition exists within the equipment, and also the magnitude of resulting acceleration forces as they relate to possible overstress of assemblies or components. The report will be used by the procuring activity to determine the readiness of the equipment for reliability testing.			
<b>4. APPROVAL DATE (YYMMDD)</b>  861017	<b>5. OFFICE OF PRIMARY RESPONSIBILITY (OPR)</b>  EC	<b>6a. DTIC APPLICABLE</b>	<b>6b. GIDEP APPLICABLE</b>
<b>7. APPLICATION/INTERRELATIONSHIP</b> 7.1 This DID contains the report format and content preparation instructions for the Vibration Survey required by Task 201 (paragraph 201.2.2) of MIL-STD-781D. 7.2 This DID is applicable when a Vibration Survey Report is required by the contract. It is used by the procuring activity to help determine the readiness of the equipment for subsequent tests. 7.3 This DID supersedes DI-R-7037.			
<b>8. APPROVAL LIMITATION</b>		<b>9a. APPLICABLE FORMS</b>	
		<b>9b. AMSC NUMBER</b>  N3980	
<b>10. PREPARATION INSTRUCTIONS</b> 10.1 <u>Reference documents.</u> The applicable issue of the documents cited herein, including their approval dates and dates of any applicable amendments and revisions, shall be as reflected in the contract. 10.2 <u>General.</u> The report shall present the techniques and results of the vibration survey required by Task 201 of MIL-STD-781. Format shall be in accordance with 5.0 of MIL-STD-883C. 10.3 <u>Content.</u> The vibration survey report shall contain the test data obtained during specified vibration survey tests and shall include: <ul style="list-style-type: none"> <li>a. Description of vibration survey test, including the following:                         <ul style="list-style-type: none"> <li>. Location and axis of accelerometers.</li> <li>. Levels and axis of imposed vibration.</li> <li>. Techniques used to perform the survey and record accelerometer output.</li> <li>. Vibration check of fixtures to assure there are no fixture resonances in the vibration test frequency range.</li> <li>. Vibration sweep rate and dwell time at resonances.</li> <li>. Rationale for selection of items monitored by sensors.</li> </ul> </li> <li>b. Vibration measurements taken, under specified test conditions, of the vibration response of the structural package itself, and of integral parts/subassemblies internally mounted.</li> <li>c. A comparison of the vibration data taken during vibration tests with the vibration data determined analytically or the vibration limits recommended by the</li> </ul>			
<b>11. DISTRIBUTION STATEMENT</b>  DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited.			

10. PREPARATION INSTRUCTIONS (Cont'd)

manufacturer of the part or by the contractor.

- d. Description and identification of equipment under test, date of test, and location of test facility.
- e. Methods and test equipment/instrumentation used to perform the survey including manufacturer, model number, serial number, and accuracies.
- f. Discussion of vibration measurement accuracy.
- g. Identification of any resonant condition exhibited during the vibration test.
- h. Magnitude of the acceleration forces resulting from the resonant condition as they relate to possible overstress of assemblies or components.
- i. Description of corrective actions taken or proposed.
- j. A response versus frequency curve.