

DATA ITEM DESCRIPTION		Form Approved OMB No 0704-0188	
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1. TITLE <b>PLANNED MAINTENANCE SYSTEM (PMS) INACTIVE EQUIPMENT MAINTENANCE (IEM) REQUIREMENT ANALYSIS</b>		2. IDENTIFICATION NUMBER <b>DI-MNTY-80989</b>	
3. DESCRIPTION/PURPOSE  3.1 The Planned Maintenance System (PMS) Inactive Equipment Maintenance (IEM) Analysis defines tasks to be performed during equipment inactive periods.			
4. APPROVAL DATE (YYMMDD) 900517	5. OFFICE OF PRIMARY RESPONSIBILITY (OPR) N/CEL-TD	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 PMS IEM Requirement Analysis resulting from the work task described by 3.7.12 of MIL-P-24534 (Navy).  7.2 This DID is related to DI-MNTY-80994, Planned Maintenance System Functional Block Diagram; DI-MNTY-80979, Planned Maintenance System  (Continued on Page 2)			
APPROVAL LIMITATION		9a. APPLICABLE FORMS	9b. AMSC NUMBER N4943
10. PREPARATION INSTRUCTIONS  10.1 <u>Format</u> . The PSM Inactive Equipment Maintenance (IEM) Analysis shall be documented in columns using contractor format.  10.2 <u>Content</u> . The IEM shall contain the following:  10.2.1 <u>General</u> . At the top of the IEM analysis, enter the equipment item name or nomenclature, the date, and the page number.  10.2.2 <u>Column 1</u> . List what degradation will occur if the equipment is inactive while ship is operational and in an industrial environment; for example, Regular Overhaul (ROH), Restricted Availability (RAV). Consider separately the equipment's internal workings, external surfaces, attachments, connecting lines, piping, and valves. In an industrial environment, consider what the effect will be under conditions such as lack of power and heating or cooling problems. Consider the effects if the equipment is exposed to abnormal conditions; such as, having the bulkhead, overhead, and decking  (Continued on Page 2)			
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## 7. Application/Interrelationship (continued)

Master System and Subsystem Index; DI-MNTY-80980, Planned Maintenance System Failure Modes and Effects Analysis; DI-MNTY-80981, Planned Maintenance System Functional Failure Analysis; DI-MNTY-80982, Planned Maintenance System Functionally Significant Items Index; DI-MNTY-80983, Planned Maintenance System Additional Functionally Significant Item Index Selection Report; DI-MNTY-80984, Planned Maintenance System Logic Tree Analysis With Supporting Rationale and Justification; DI-MNTY-80985, Planned Maintenance System Servicing and Lubrication Analysis; DI-MNTY-80986, Planned Maintenance System Requirement Index; DI-MNTY-80987, Planned Maintenance System Procedure Evaluation Sheet; DI-MNTY-80988, Planned Maintenance System Task Definition; DI-MNTY-80990, Planned Maintenance System Reliability Centered Maintenance Documentation Control Sheet; DI-MNTY-80991, Planned Maintenance System Maintenance Requirement Card; DI-MNTY-80992, Planned Maintenance System Maintenance Index Page; DI-MNTY-80993, Planned Maintenance System Quality Assurance Check Sheet.

## 10. Preparation Instructions (Continued)

removed; or having industrial work such as welding, chipping, sandblasting, or painting in progress in the immediate area.

10.2.3 Column 2a. Considering location and equipment design, state maintenance actions with alternatives to protect and prevent degradation of the equipment under the conditions listed in column 1. As many alternatives as possible should be presented. The actions listed shall specify the steps necessary to lay up the equipment and maintain it in an active state for a period of prolonged idleness. State the actions as MRS, for example:

- a. Remove equipment and place in a protected area.
- b. Lubricate and cover exposed areas.
- c. Inactivate radar set.

10.2.4 Column 2b. State what maintenance actions are required to reactivate equipment that has been idle for a prolonged period. Include start up maintenance where necessary and specify what tests are required to ensure the operational readiness of the equipment.

10.2.5 Column 3. Considering cost and resource expenditures, determine the effectiveness of each requirement listed in column 2. State whether or not the procedure would satisfy all requirements and give the reason. Justification is required for each alternative. Only the most cost effective requirement should survive the justification. Justification may recommend more than one alternative under different environmental conditions during a shutdown period.

10.2.6 Column 4. Establish the IEM periodicity; lay up maintenance (LU); periodic maintenance (PM); start up maintenance (SU); or operational test (OT) for each requirement fully justified in column 3. A Maintenance Requirement (MR) may be used under more than one IEM periodicity. For periodic maintenance, identify the periodicity of performance required by adding a code to the Planned Maintenance (PM)

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## 10. Preparation Instructions (Continued)

indicator; for example, PM(W); PM(M). Justify each periodicity decision. If a requirement is to be performed in an industrial environment only, indicate by the notation (I); for example, LU(I). This MR shall be entered on the Maintenance Index Page (MIP) with a note to describe the circumstance.

10.2.7 Column 5. List available maintenance procedures that could satisfy the requirements justified in columns 3 and 4. Maximum use of existing maintenance procedures is required. Apply existing procedures as written or modify as necessary. Maintenance procedures requiring modifications and maintenance actions which must be developed should be flagged by circling. Indicate the source of existing procedures. Some of the sources will be technical manuals (TM), ordnance publications (OP), existing Maintenance Requirement Cards (MRC), or MPCs to be developed as a result of phase 9.

10.2.8 Column 6. Enter recommended periodicity for each requirement justified in column 4. If there are no MRs justified in column 4, indicate with the word none. This column contains the key information required in developing the IEM portion of the MIP.

10.2.9 Column 7. This column shall provide a summary and check-off list of the development work required for IEM. Opposite each MR listed in column 6, indicate what must be done to complete the IEM development with one of the following:

- (S) - the MR procedure exists on the PMS section of the MIP and is to be used as written.
- (M) - the MR procedure exists on the operational maintenance portion of the MIP, but the procedure for periodicity must be modified for IEM.
- (N) - a complete new procedure must be developed to satisfy the MR and shall be subjected to procedure evaluation.