

## DATA ITEM DESCRIPTION

Form Approved  
OMB No. 0704-0182

"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 (0704-0182), Washington, DC 20503."

1 TITLE  PLANNED MAINTENANCE SYSTEM (PMS) FAILURE MODES AND EFFECTS ANALYSIS (FMEA)		2 IDENTIFICATION NUMBER  DI-MNTY-80980	
3 DESCRIPTION / PURPOSE  3.1 The Planned Maintenance System (PMS) Failure Modes and Effects Analysis (FMEA) defines the dominant failure modes and the effect each failure mode has on the item.			
4 APPROVAL DATE (YYMMDD)  900517	5 OFFICE OF PRIMARY RESPONSIBILITY (OPR)  N/CEL-TD	6a DTIC APPLICABLE	6b GIDEP APPLICABLE  X
7 APPLICATION / INTERRELATIONSHIP  7.1 This Data Item Description (DID) contains the format and content preparation instructions for the PMS Failure Modes and Effects Analysis resulting from the work task described by 3.7.5 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 AVSC NUMBER  N4934
10 PREPARATION INSTRUCTIONS  10.1 <u>Format</u> . The PMS Failure Modes and Effects Analysis (FMEA) shall be documented using contractor format.  10.2 <u>Content</u> . The analysis shall contain the following:  10.2.1 <u>ESWBS number</u> . Duplicate each Expanded Ship Work Breakdown Structure (ESWBS) entry from the Functionally Significant Item (FSI) Index.  10.2.2 <u>Nomenclature</u> . Duplicate each entry from FSI Index.  10.2.3 <u>Ship Class</u> . Duplicate the entry from the Functional Failure Analysis (FFA).  10.2.4 <u>Prepared By</u> . Enter the analyst's name and the date.  10.2.5 <u>Reviewed By</u> . Enter the first level reviewer's name and the date.  10.2.6 <u>Approved by</u> . Reserved for PMS coordinating activity approval signature and the date. (Continued on Page 2)			
DISTRIBUTION STATEMENT  Distribution Statement A: Approved for public release; distribution is unlimited.			

## DI-MNTY-80980

## 7. Application/Interrelationship (Continued)

Master System and Subsystem Index; 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-80989, Planned Maintenance System Inactive Equipment Maintenance Requirement Analysis; 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.

7.3 This DID requires data to be provided to the Government Information Data Exchange Program (GIDEP) at the following address: Program Director, GIDEP Operations Center, Corona, CA 91720-5000.

## 10. Preparation Instructions (Continued)

10.2.7 Revision. Enter Original, A, B, or C, sequentially and the date.

10.2.8 Function(s). Enter the numbers of the functions listed in FFA, or the Additional FSI Selection.

10.2.9 Functional failures. Duplicate the entries from FFA, or Additional FSI Selection, as applicable.

10.2.10 Dominant failure modes. Enter the dominant failure mode for each functional failure. Number sequentially to correspond to the appropriate functional failure and function; for example, 1.1a, 1.1b, 1.2a. Failure modes should be identified at the level at which the analysis is made. If there are no dominant failure modes, enter NONE.

10.2.11 Failure effects (local, subsystem, system). Enter the details of the effects of each failure mode on the FSI where the failure mode occurs at system and subsystem level if appropriate, and the end effect. If the failure mode has no effect on a particular level, enter NONE in the appropriate column. If the particulars of the effects are such that a safety hazard or reduction in mission capability results, indicate:

- a. Safety hazard to operators
- b. Safety hazard to personnel in vicinity

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## . Preparation Instructions (Continued)

- c. Partial loss of capability to detect and track surface contacts with radar
- d. Total loss of mobility capability
- e. If the effects are such that only a redundant item is lost, indicate by using the phrase (in capital letters), LOSS OF REDUNDANCY.

10.2.12 Transfer. Enter "Y" to signify if the failure mode indicates further analysis should take place. If the failure mode has insignificant effects, or it is only remotely likely to occur, enter "N" and provide rationale for this decision on clearly labeled backup sheets. For failure modes of redundant items, the likelihood of failure of redundant items must be considered.

10.2.13 Serial Number. Enter a four-segment serial number as follows:

- a. Segment 1 - Enter the developing organization abbreviation followed by a slant (/).
- b. Segment 2 - For developers, enter the development authorization number followed by a slant (/); for other development activities, assign a development number followed by a slant (/).
- c. Segment 3 - Enter the number 119, indicating the FMEA form, followed by a slant (/).
- d. Segment 4 - Enter the ESWBS number for the item from the FSI Index for the item.