

| DATA ITEM DESCRIPTION   |   |   | Form Approved<br>OMB No. 0704-0188 |                              |
|---|---|---|------------------------------------|------------------------------|
| 1. TITLE<br><br>Depot Maintenance Study   |   | 2. IDENTIFICATION NUMBER<br><br>DI-ILSS-80739 |                                    |                              |
| 3. DESCRIPTION/PURPOSE<br><br>3.1 The Depot Maintenance Study lists reparable items and the tools required for depot maintenance. All requirements in areas such as qualitative, inspection, special skills, space and facilities, and time standards are included in this study.<br><br>(Continued on Page 2)  |   |   |                                    |                              |
| 4. APPROVAL DATE<br>(YYMMDD)<br><br>890117  | 5. OFFICE OF PRIMARY RESPONSIBILITY (OPR)<br><br>A/AMC-MI | 6a. DTIC APPLICABLE                           | 6b. GIDEP APPLICABLE               |                              |
| 7. APPLICATION/INTERRELATIONSHIP<br><br>7.1 This Data Item Description (DID) contains the format and content preparation instructions for the data product generated by the specific and discrete task requirement as delineated in the contract.<br><br>7.2 This DID supersedes DI-S-1815.   |   |   |                                    |                              |
| 8. APPROVAL LIMITATION  |   | 9a. APPLICABLE FORMS                          |                                    | 9b. AMSC NUMBER<br><br>A4609 |
| 10. PREPARATION INSTRUCTIONS<br><br>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.<br><br>10.2 <u>Format</u> . The Depot Maintenance Study format shall be as indicated in each appendix description.<br><br>10.3 <u>Content</u> . The Depot Maintenance Study shall contain the following appendices:<br><br>10.3.1 <u>Appendix A</u> . A list of reparable items in generation breakdown sequence, including applicable National Stock Number (NSN), failure rates, and a listing of the shops or areas within a typical depot affected by each line item. Pertinent special remarks shall be included.<br><br>10.3.2 <u>Appendix B</u> . A cross-reference to Appendix A, listing Appendix A items in Part Number sequence.<br><br>(Continued on Page 2) |   |   |                                    |                              |
| 11. DISTRIBUTION STATEMENT<br><br>DISTRIBUTION STATEMENT A. Approved for public release;<br>Distribution is unlimited.  |   |   |                                    |                              |

DI-ILSS-80739

Block 3, Description/Purpose (Continued)

3.2 The Depot Maintenance Study is used to determine manpower, skill, tooling, and space required for depot support.

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Block 10, Preparation Instructions (Continued)

10.3.3 Appendix C. Lists to include quantity of common and special tools, required for depot maintenance. This shall consist of the following:

a. A complete description of all tools, test and handling equipment required in each operation area, identified alphabetically by noun name, stock number or manufacturer's number sufficient to identify the item.

b. All items indicated in (a) above shall be justified, and the operation performed by each item shall be described.

c. Listing of items in (a) above shall be keyed to the suggested shop layouts to indicate location where item is required.

10.3.4 Appendix D. Outline the qualitative requirements for the Product Assurance Program necessary for depot maintenance of the given materiel.

a. Identify the acceptance inspection equipment required for the rebuild of each hardware item.

b. Specify any special requirements for reliability, maintainability, nuclear hardness or assessment, test, demonstration or evaluation during maintenance.

c. Outline herein the program and procedures for incoming inspection.

(1) Contractor furnished material

(2) Other incoming material

d. Provide detailed inspection requirements for each hardware item for:

(1) Serviceability inspection criteria

(2) In process inspection

(3) Final inspection

10.3.5 Appendix E. Information and recommendations on space and facilities requirements in support of depot maintenance. This shall consist of the following:

DI-ILSS-80739

**Block 10, Preparation Instructions (Continued)**

- a. Layouts clearly delineating square feet of area required for major operation, by shop, by supporting common facilities and total overall area.
- b. Contractor's suggested layouts drawn to a scale of 1/8 inch equals one foot.
- c. Supporting facilities, such as electrical power outlets, high or low pressure air outlets, etc., indicated at each outlet or facility source.
- d. Special maintenance areas, such as environmental controlled areas, indicated on suggested layouts and justified by indicating the items requiring such special areas; and additionally, the tolerance, or special requirements that make such mandatory. The degree of control and permissible tolerance shall be indicated for listed environmental control areas.
- e. Special skills and techniques on a suggested shop staffing and organizational chart and keyed to the shop layouts to indicate the operations required of such listed special skills.
- f. A numbered sequence listing of major operations for production planning purposes keyed to the suggested shop layouts to indicate the operation performed in each area.

Information required in the above paragraphs shall be based on an estimated workload of the following:

- (1) Complete system overhaul/rebuild
- (2) End item overhaul/rebuild
- (3) Secondary item overhaul/rebuild (components, assemblies, subassemblies).

**10.3.6 Appendix F.** List of plug-in type component boards used for major end items, weapon systems, and ground support equipment.

**10.3.7 Appendix G.** List of Commercial and Government Entity (CAGE) codes extracted from the Defense Supply Agency Handbook H 4-2, which applies to those codes appearing in Appendices C and D, above.

**10.3.8 Appendix H.** Rebuild production/manufacturing data in detail required to ensure intelligent, efficient, and safe operations at all stages of the maintenance activity. This shall contain the following:

- a. Troubleshooting
- b. Disassembly procedures
- c. Rebuild and repair procedures

DI-ILSS-80739

## Block 10, Preparation Instructions (Continued)

- d. Depot overhaul and maintenance procedures
- e. Safety requirements (as applicable to depot maintenance)
- f. Nuclear hardness maintenance requirements.

10.3.9 Appendix I. Depot/Class V inspection procedures for all class V items for inclusion in Supply Bulletin (SB) 742-1, when stipulated in the contract by the procuring activity.

10.4 Glossary. List abbreviations with definitions for all unique terms and acronyms throughout the study.

10.5 Time standards. For each item contained in Appendix A, include engineered estimates established for the time necessary to rebuild the item. These times should be derived from factual data when possible or from examination of the item. In addition to the item rebuild times, failure rates shall also be shown. These failure rates shall be expressed in predicted number of failures per 100 items per year.

10.6 Workload figures. The workload contribution of each line item in Appendix A shall be computed as the product of the failure rate times the field density times the quantity per assembly times hours required for each operation. These figures shall be totaled for each shop and for the entire system and an annual shop workload shall be predicted.

10.7 Recommendations.

- a. Peculiarities of the system or end item
- b. Specialized requirements, to include depot maintenance of nuclear hardness features.
- c. "Throw away" vs depot rebuild
- d. Other.