

## DATA ITEM DESCRIPTION

**TITLE:** Engineering Manual

**NUMBER:** DI-TMSS-81723

**AMSC Number:** 7677

**DTIC Applicable:** No

**Office of Primary Responsibility:** NS/I5222

**APPLICABLE Forms:** N/A

**Approval Date:** 29 NOV 2006

**Limitation:** N/A

**GIDEP Applicable:** No

### Use/Relationship:

The Engineering Manual is use by engineering personnel familiar with the technical requirements of the equipment and system to be delivered.

This Data Item Description (DID) contains the format and content preparation instructions for preparing an Engineering Manual. The technical manual shall be prepared for use by engineering personnel familiar with the technical requirements of the equipment and system to be delivered.

### Requirements:

1. Reference Document: None.
2. Format: Commercial practices shall be used in the preparation of the manual. The manual shall be fastened between durable covers. The cover shall be marked with the publication numbers, equipment, and date.
3. Content: The manual content shall include at least the following (with appropriate illustrations):
  - a. A Title Page that shall contain the publication numbers, equipment nomenclature, purchases description numbers, contract number and manual date.
  - b. An Introduction Section that shall include a general physical description of all equipment, explain briefly what it is, and what it will do, and present all information of a general nature applicable to complete equipments. When the text contains terms not commonly used, definitions shall be included.
  - c. An Operation section that shall explain in detail how the equipment operates and describes all modes of operation, adjustment of controls indicator readings for normal operation and adjustment necessary to maintain normal operation.
  - d. A Theory of Operation Section that shall contain a technical explanation of all units and special circuitry used in the equipment. A Maintenance Section containing the necessary schematic drawings, wiring diagrams, and logic

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diagrams for complete maintenance of the equipment. This section shall specifically include an overall block diagram. An Installation and Interface Section which shall contain sufficient information to install and provided mechanical and electrical information such as inputs, outputs, weight, size, connectors, power, etc.

- e. A Parts List Section which shall contain a tabulation of data on all electrical, mechanical, and operational components in the equipment and system. For each part that is listed, provided the following:
  - 1. Reference Designation
  - 2. Name and Description
  - 3. True Manufacturers Part Number
  - 4. Manufacturers name, address and cage code
  - 5. Part Number
  - 6. Total number of parts per item

4. END OF DI-TMSS-81723