

MIL-S-38794B (USAF)

17 JUN 83

SUPERSEDING

MIL-S-38794A (USAF)

1 September 1977

MILITARY SPECIFICATION

SOURCE DATA: PREPARATION OF (For non-nuclear munitions disposal procedures manuals, loading procedures, manuals, and positioning and tiedown manuals).

This specification is approved for use within the Department of the Air Force, and is available for use by all Departments and Agencies of the Department of Defense.

1. SCOPE

1.1 Scope. This specification covers the requirements for the preparation of source data for inclusion in non-nuclear munitions disposal procedures manuals, loading procedures manuals and positioning and tiedown manuals.

2. APPLICABLE DOCUMENTS

2.1 Government documents.

2.1.1 Specifications. Unless otherwise specified, the following specifications of the issue listed in that issue of the Department of Defense Index of Specifications and Standards (DoDISS) specified in the solicitation, form a part of this specification to the extent specified herein.

SPECIFICATIONS

MILITARY

MIL-M-38784

Manuals, Technical: General
Style and Format Requirements

(Copies of specifications required by manufacturers in connection with specific acquisition functions should be obtained from the contracting activity or as directed by the contracting officer).

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Ogden-ALC/MMEDO, Hill AFB, UT 84056 by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

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2.1.2 Other Government Publications. The following other Government publications form a part of this specification to the extent specified herein.

PUBLICATIONS

Technical Orders

00-5-1	AF Technical Order System
11-1-38	Positioning and Tiedown Procedures for Non-nuclear Munitions
11A-1-42	General Instructions for Disposal of Airmunitions

(Copies of publications required by manufacturers in connection with specific acquisition functions should be obtained from the contracting activity or as directed by the contracting officer).

2.1.3 Order of precedence. In the event of a conflict between the text of this specification and the references cited herein, the text of this specification shall take precedence.

3. REQUIREMENTS

3.1 General Requirements. Requirements listed below are applicable to all source data procurements. Data will include all information pertinent to the procedures and munitions being procured but will not repeat information presently printed in the general manuals. Type of information and format will be that of the applicable manual(s).

3.1.1 Preparation. The text shall be prepared in manuscript form, typewritten on bond paper, double-spaced, 8.5 by 11 inch [21.624 by 27.94 centimeters (CM)] (approximate) page size. A title page and list of effective pages are not required. The cover of the manuscript shall be similar to Figure 1. The text shall be suitable for office machine type reproduction.

3.1.2 Illustrations. Illustrations and diagrams shall be prepared in accordance with MIL-M-38784. Illustrations shall supplement the text and contribute to its clarity.

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3.2 Contents. Data shall pertain to the items specified in the contract and shall include all information and procedures necessary to establish a complete progressive program for the applicable function of the item(s) to which the manuscript pertains. Information and procedures shall be based on the manufacturer's recommendations and service experience. All available information shall be used to determine the functional criteria of the item(s). Procedures shall be stated tersely but completely in language understandable to munitions personnel. Warnings, cautions, and notes will be included as necessary in accordance with MIL-M-38784.

3.3 Arrangement of Disposal Procedures Data.

3.3.1 Section I. Data shall provide a list of protective equipment and procedures necessary to conduct a safe disposal operation. Any safety requirement necessary for the protection of personnel will be included in the recommended disposal method as a WARNING immediately preceding the procedural step to which it applies (see MIL-M-38784). Any requirement not presently listed in TO 11A-1-42 will be described fully and illustrated (if necessary).

3.3.2 Section II, Methods of Disposal. Data shall provide recommended method(s) of disposal of non-nuclear munitions. Disposal method(s) shall provide step-by-step instructions for disposal by burning, detonation, static firing and/or demilitarization. (Refer to TO 11A-1-42, Section III, for definition of various disposal methods).

3.3.2.1 Disposal by Burning. Disposal by burning is one of the most common methods of disposal and when recommended shall specify use of pit-trench, burn on the ground surface, or in a furnace.

3.3.2.2 Disposal by Detonation. Disposal by detonation shall include amount and type of explosive charge necessary to completely destroy the item. Procedural steps shall include exact placement of the recommended charge, method of ignition, recommended quantity of items to be disposed of at one time, and placement of the items; i.e., in a pit, on the surface, end-to-end, stacked, single/multiple layer, etc.

3.3.3 Disassembly Procedures. If an item can be disassembled, disassembly procedures will be given. Disposal procedures for each disassembled explosive component will be given. A disposal method for the complete end item will be required in the event an end item cannot be disassembled due to rust or damage. Illustrations showing sequence of disassembly will be provided.

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3.4 Arrangement of Aircraft Loading Procedures Data.

3.4.1 Nonnuclear Munitions Loading Standard Data Packages.

Approved standard data packages contain descriptive information, illustrations and procedural steps required for preparation of nonnuclear munitions loading manuals. Typical checklist procedures are a part of the standard data packages. Use of standard data packages shall be mandatory.

3.4.2 Warnings, cautions, notes. Warnings, cautions, and notes shall be prepared and presented in accordance with the requirements of MIL-M-38784.

3.4.3 Nomenclature. Nomenclature of switches and other controls shall be as it appears on the decals. Munition nomenclature used as titles shall be the official nomenclature as furnished by the acquiring activity. Nomenclature of Support Equipment (SE) and other type equipment will be the official assigned nomenclature consisting of the item name and type designation. Munition and SE nomenclature used elsewhere in the text shall be common terminology.

3.4.4 Standardization of terms for procedural steps. Use of grammatical phrases will be left to the discretion of the acquiring activity. Once a phrase, such as: "check that", "insure that", "lift", "raise", etc, has been selected, that phrase shall remain the same throughout the text.

3.4.5 Standardization of terms "if applicable" and "if required". The term "if required" shall not be used. The term "if applicable" should only be used when the completion of the procedural step may or may not be required due to configuration or load condition.

3.4.6 Prefix. Procedural steps within the text that are applicable to a specific item shall be prefixed for identification.

3.4.7 Arrangement of basic information procedures data. The text shall be arranged as follows:

Front Matter

Cover page

Table of Contents

List of Illustrations (when applicable)

List of Tables (when applicable)

Introduction

Section I, Support Equipment (SE) Description

Section II, Munition Description

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3.4.7.1 Front matter. The cover page shall conform to figure 1. The Table of Contents, List of Illustrations, List of Tables, shall conform to MIL-M-38784.

3.4.7.1.1 Introduction. The introduction shall be in accordance with MIL-M-38784 and shall provide a brief explanation of the purpose or scope of the source data. The words "shall", "will", "should", and "may", as used in the manual, shall be defined (refer to MIL-M-38784), and any other relevant information that will contribute directly to the use of the source data shall be included.

3.4.7.2 Section I, Support Equipment (SE) Description. This section shall describe and illustrate all special tools and specific items developed for handling, testing, and loading of equipment.

3.4.7.3 Section II, Munition Description. This section shall describe and illustrate item(s), system(s) or component(s). The following data shall be included as applicable; weight, dimensions, components, suspension requirements, fuzing options, model differences, integral safety features, functional description.

3.4.7.3.1 Bomb Fuzes. Descriptive data on bomb fuzes shall include a brief description and illustration of the fuze. The data shall also include functional type, safety devices, armed/safe indications, action, arming delays and functioning delays.

3.4.7.4 Identification of items. The official nomenclature and part number of items shall be listed one time in the text. Further identification shall be in short descriptive form. Use of part numbers shall be held to an absolute minimum and used only when no other means of positive identification will suffice. The principle noun shall be consistent with those in Federal Stock Lists (FSL), if available. Otherwise, as indicated on top assembly drawings.

3.4.8 Arrangement of loading procedures data. Refer to an approved standard data package on a similar munition for data arrangement and format. The text shall be arranged as follows:

Front Matter

Cover Page

Table of Contents

List of Illustrations (when applicable)

List of Tables (when applicable)

Introduction

Emergency Procedures

Specific Safety Requirements

Loading Procedures

Munitions Preparation

Loading

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Fuzing (if applicable)
Postloading
Cartridge Installation
Postloading Inspection
Delayed Flight or Alert
Immediately Prior to Launch

Unloading Procedures

Safing
Preunloading
Fuze Removal (if applicable)
Unloading

3.4.8.1 Front matter. The front matter shall be prepared in accordance with MIL-M-38784.

3.4.8.1.1 Emergency Procedures. Emergency procedures shall be prefaced by a brief explanation of actions to be accomplished by the loading crew in case of fire or other emergency. This data shall contain the time the munition can be expected to function after being enveloped by flames. Pages of emergency procedures shall be marked in accordance with the requirements of MIL-M-38784.

3.4.8.1.2 Specific Safety Requirements. The data shall provide all specific safety requirements pertaining to the loading of the munition.

3.4.8.2 Loading Procedures. Data shall be provided as follows.

3.4.8.2.1 Munitions preparation. This paragraph, applicable to a single munition, multiple rack and preloaded accessories, shall include steps required to inspect and prepare each munition (including components). This procedure shall include steps required to assemble and install authorized fuzes prior to munitions loading. Procedures shall be included to verify the safety of each fuzed munition. All steps shall be singular.

3.4.8.2.2 Loading. This paragraph shall include steps required to load the munition. All steps shall be singular.

3.4.8.2.3 Fuzing. This paragraph shall include steps required to check prefuzed munitions and install those fuzes that are not authorized to be installed prior to loading munition. All steps shall be singular.

3.4.8.2.4 Post Loading. This paragraph shall provide steps required to assure the compatibility and safety of the munitions.

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3.4.8.2.5 Cartridge installation. The following steps are applicable:

1. Perform required stray voltage check(s).
2. Check impulse cartridges for serviceability.
3. Install impulse cartridges.

All steps shall be plural. The following note shall precede the cartridge installation steps.

NOTE

Omit step 1 if impulse cartridges are to be installed as part of the loading and if a complete stray voltage check was performed during aircraft preparation or functional check, and provided no additional power has been applied to the aircraft.

3.4.8.2.6 Postloading inspection. This paragraph shall include steps required to insure that required safety devices are installed, bombs and non-nuclear fuzes are installed properly, and nonnuclear fuze safety devices have been removed or installed as required. All steps shall be plural.

3.4.8.2.7 Delayed flight or alert. This paragraph shall include procedural steps required for safing of aircraft accessories, munitions, and impulse cartridges. Immediately following the mandatory procedures, a note shall be placed to read:

NOTE

Omission of, or options relating to the following step(s) may be dictated by the local Commander.

This paragraph shall include procedural steps for optional readiness configurations. All steps shall be plural.

3.4.8.2.8 Immediately prior to launch. This paragraph shall include steps required to place the aircraft in a launch configuration. All steps shall be plural.

3.4.8.3 Unloading procedures. Under this title (centered heading), the following paragraphs (primary sideheads) shall be covered.

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3.4.8.3.1 Safing. This paragraph shall include essential steps required to safe the munitions and install required safety devices. All steps shall be plural. The following note shall precede steps concerning the safing of munitions.

NOTE

Omission of the following step(s) may be authorized by local Commander.

3.4.8.3.2 Preunloading. This paragraph shall include steps and checks required to prepare the munition of unloading. All steps required to safe the munitions shall be repeated in this paragraph. All steps shall be plural.

3.4.8.3.3 Fuze removal. This paragraph shall include steps required to safe and to remove the fuze from the munition. All steps shall be singular. The following note shall precede any specified fuze type(s) that may remain installed with the approval of the local Commander.

NOTE

With Local Commander approval, the following fuzes may remain installed.

3.4.8.3.4 Unloading. This paragraph shall include steps required to unload the munitions from the aircraft. All steps shall be singular.

3.5 Arrangement of Positioning and Tiedown Data.

3.5.1 Section I, Tiedown Family Groups. The physical characteristics of the munition shall be compared to those of like munitions for possible inclusion in an existing tiedown family group listed in TO 11-1-38.

3.5.2 Section II, Tiedown Procedures. If it is determined that the munition cannot be included in an existing family group, the following data shall be provided.

- a. A list of compatible trailers.
- b. Maximum number of munitions that can be safely tied down on each trailer.
- c. Specific tiedown locations on each trailer for Maximum Load.
- d. List of type and total number of tiedowns used for each trailer. List shall include any special/peculiar equipment required.

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- e. Line drawing of munitions/trailer configurations.

4. QUALITY ASSURANCE PROVISIONS

4.1 Review, Validation, Verification and Final Acceptance. Review, validation, verification, and final acceptance of the text shall be accomplished in accordance with the requirements of TO 00-5-1 and MIL-M-38784.

4.2 Review Copies. Review copies of the text shall be supplied and distributed as specified in the contract.

5. PACKAGING

5.1 Shipment of Text and Art Material. Text and art material shall be packaged and packed for shipment in accordance with MIL-M-38784.

6. NOTES

6.1 Intended Use. Data prepared in accordance with this specification is for use in preparation of aircraft loading procedures manuals (Aircraft -33 series TOs).

6.2 Ordering Data. Procurement documents should specify:

- a. Method of supplying and distributing review copies text.
- b. Quantity of copies of the text to be furnished.

Custodian:
Air Force - 99

Review Activities:
Air Force - 01, 10, 18

Preparing Activity:
Air Force - 70

Project No. TMSS F500

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TECHNICAL DATA
NON-NUCLEAR MUNITIONS
LOADING PROCEDURES

NOMENCLATURE _____

NSN _____

P/N _____

NOTICE: This material is for use only as data for the preparation of Official Air Force Technical Manuals. It is not authorized as Official Air Force Data, and shall not be used as such.

Date

Figure 1. Cover Page.

STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

(See Instructions - Reverse Side)

1. DOCUMENT NUMBER		2. DOCUMENT TITLE	
3a. NAME OF SUBMITTING ORGANIZATION		4. TYPE OF ORGANIZATION (Mark one) <input type="checkbox"/> VENDOR <input type="checkbox"/> USER <input type="checkbox"/> MANUFACTURER <input type="checkbox"/> OTHER (Specify): _____	
b. ADDRESS (Street, City, State, ZIP Code)			
5. PROBLEM AREAS			
a. Paragraph Number and Wording:			
b. Recommended Wording:			
c. Reason/Rationale for Recommendation:			
6. REMARKS			
7a. NAME OF SUBMITTER (Last, First, MI) - Optional		d. WORK TELEPHONE NUMBER (Include Area Code) - Optional	
c. MAILING ADDRESS (Street, City, State, ZIP Code) - Optional		8. DATE OF SUBMISSION (YYMMDD)	

(TO DETACH THIS FORM, CUT ALONG THIS LINE.)