

MIL-M-27586C (USAF)  
1 October 1970  
Superseding  
MIL-T-27586B (USAF)  
13 January 1967

## MILITARY SPECIFICATION

### MANUAL, TECHNICAL AND CHECKLIST: NUCLEAR MUNITIONS LOADING PROCEDURES, STRATEGIC BOMBER AIRCRAFT, PREPARATION OF

#### 1. SCOPE

1.1 This specification covers the detail requirements for the preparation of technical manuals for loading nuclear munitions on or into strategic bomber aircraft.

#### 2. APPLICABLE DOCUMENTS

2.1 The following documents of the issue in effect on the date of invitation for bids or request for proposal form a part of this specification to the extent specified herein:

#### SPECIFICATIONS

##### Military

MIL-C-38778	Checklists: Title Page, List of Effective Pages, Printing and Binders; General Requirements for Preparation Of
MIL-M-38784	Manuals, Technical: General Requirements for Preparation Of
MIL-P-38790	Printing Production of Technical Manuals; General Requirements for (Photolithographic Negatives, Reproduction Assembly Sheets, Printing)

#### PUBLICATIONS

##### Technical Orders

00-5-1	AF Technical Order System
00-5-2	Technical Order Distribution and Requisition System

TMSS

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(Copies of documents required by contractors in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

### 3. REQUIREMENTS

#### 3.1 General requirements

3.1.1 General specifications. The requirements of MIL-C-38778, MIL-P-38790, and MIL-M-38784 apply as requirements of this specification to the extent specified herein. Unless otherwise specified in the contract, the technical manual and checklist shall be submitted in the form of negatives.

3.1.1.1 Lists. Lists of tables and illustrations shall not be required.

3.1.1.2 Nomenclature. Nomenclature shall be standardized throughout the manual(s) and checklist. If authorized, nomenclature may be shortened to its common name.

3.1.1.3 Change bars. In the job-oriented procedures change bars shall be placed within the column being changed and to the right of the step(s) change. Change bars shall not be required in a revision.

3.1.1.4 Illustrations. The following guidelines shall be used in illustrating the manual:

a. Halftone photos are preferred; however, if such photos are unavailable, line drawings may be used.

b. Aircraft and weapon locator-type illustrations shall not be used, except where essential to explain data in the Supplemental Loading Information section.

c. See 3.2.3.1 herein for illustration requirements for the job-oriented procedures.

3.1.1.5 Text presentation. Unless otherwise specified in the contract, text (except for the job-oriented procedures; see 3.2.3.1 herein) shall be single column unjustified; artwork (except in the job-oriented procedures) shall be integrated with the text.

3.1.2 Type of manual to be prepared. The manual shall be a multivolume type consisting of one or more volumes containing procedures and a checklist. The procedural volumes shall be 8-1/4 by 10-3/4 inches, trim size, and the checklist shall be 5 by 8 inches, trim size. Requirements for number of volumes and scope of coverage shall be furnished by the Technical Order Management Agency through the Procuring Activity.

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3.2 Arrangement. The technical manual(s) shall have the following arrangement:

Front Matter

Section I - General Support Information .

Section II - Loading Operations (as many sections as required)

Section ( ) - Supplementary Loading Information

3.2.1 Front matter. Front matter shall consist of the following in the order indicated:

Title Page

List of Effective Pages

Table of Contents

Introduction

3.2.1.1 Title page. The title page shall be prepared in accordance with the requirements of MIL-M-38784. One of the following transmittal notices (distribution limitation statements) shall be placed on the title page as indicated in MIL-M-38784.

a. For classified TOs: "In addition to security requirements which apply to this document and which must be met, each transmittal outside of the Department of Defense must have prior approval of the Technical Order Distribution Control Activity. Refer to TO 00-5-2."

b. For unclassified TOs: "Each transmittal of this document outside the Department of Defense must have prior approval of the Technical Order Distribution Control Activity. Refer to TO 00-5-2."

3.2.1.2 List of effective pages. The list of effective pages shall be prepared in accordance with the requirements of MIL-M-38784.

3.2.1.3 Table of contents. The table of contents shall be prepared in accordance with the requirements of MIL-M-38784. In addition, each section shall have a table of contents listing the major headings within the section. Tables of contents shall be typed single column; text shall begin immediately below the table of contents.

3.2.1.4 Introduction. The introduction shall be prepared in accordance with the general requirements of MIL-M-38784. Only nonstandard abbreviations, if any, need be explained; abbreviations and acronyms that result from application of 3.1.1.2 herein shall not be included. In addition, the following requirements shall be included:

a. Definitions of Warning, Caution, and Note.

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b. List of applicable reference documents. (This list shall be held to a minimum, showing essential documents only.) Applicable Time Compliance Technical Orders (TCTOs) shall be omitted.

c. Statements concerning technical responsibility for the manual and submission of improvement reports and comments.

d. Precedence (nuclear safety) statement.

3.2.2 Section I - General support information. This section shall contain equipment, safety, and loading restrictions and any necessary procedures and information pertaining to preparation of the aircraft for loading. In addition, a listing of aircraft components, controls, and indicators of direct concern to the load crew shall be included.

3.2.3 Section II, III, etc. - Loading operations. Job-oriented loading procedures shall be presented for all stores. Sectional, or volume, breakdown shall normally be presented under the following headings: Loading Preparation, Loading Procedures, and Loading Completion Procedures, prefixed by the applicable bomb or warhead designation, if applicable.

3.2.3.1 Job-oriented procedures. The procedures within the manual shall be job-oriented; i.e., task assignments shall be listed for each load crew member in a time-phased sequence. This is shown by using a columnar arrangement (one column for each load crew member); horizontal alinement on the page of task of the crew members indicates tasks which must be performed at the same time. Arabic numerals, used as column headings, are the load crew member designations; steps shall be numbered consecutively in Arabic numerals within each heading for each crew member. Each page shall be identified by the type of procedures and by the weapon designation, if applicable. This identification shall be placed below the TO number. When the job-oriented procedures require illustrations, illustrations shall be on the left hand page and procedures on the (facing) right hand page. Only art essential to the operation shall be used and shall contain no text or callouts other than arrowheads to indicate the specific switch or equipment item mentioned in the procedural step. Reference to this art shall be accomplished by the expression "fig\_\_" next to the number of the illustrated step. Illustrations in the job-oriented procedures shall not be used more than once; such art shall be referenced as often as necessary. Figure titles shall not be used in the job-oriented procedures.

3.2.4 Section ( ) - Supplemental loading information. This section shall follow the job-oriented procedures and shall contain any additional information required by the load crew, such as when to perform safety checks and transfer procedures.

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3.2.5 Checklist. The checklist shall be prepared in accordance with the requirements of MIL-C-38778. It shall include checklists for team chief checks, preloading and postload checks, safety checks, unloading procedures, and other checks and steps required to safely complete the required operations. Checklist shall be written in demand-response format.

3.3 Maintenance of the manual. The manual and checklist shall be maintained in accordance with the requirements of MIL-M-38784.

#### 4. QUALITY ASSURANCE PROVISIONS

##### 4.1 Basic manual and checklist

4.1.1 Preliminary review. Preliminary manuscripts shall be submitted to the responsible engineering agency for review as specified in the contract. Comments and corrections resulting from this review shall be incorporated into the review copies.

4.1.2 Review conference. A review conference shall be held at the contractor's facility or if combined with a verification (ref TO 00-5-1) at an operational location. Review copies shall contain all data required by this specification and shall be in the form of manuscript (text double spaced) with art. The copy shall be reviewed for technical adequacy and accuracy. Before preparation of reproducible copy is begun, final manuscripts shall be reviewed for technical content and to ascertain that results of review/verification have been correctly incorporated into the copy.

4.1.3 Review of reproducible copy. Prior to preparation of negatives, reproducible copy shall be reviewed as specified in the contract for technical accuracy and conformance to specifications.

4.1.4 Proof copies. When specified in the contract (DD 1423), proof copies, reproduced from final negatives, shall be delivered.

##### 4.2 Changes

4.2.1 Preliminary review. Manuscript for changes shall be submitted for review as required in the contract. Manuscripts for changes shall be clear and legible and shall include, as a minimum, a listing of existing art work to be used. Any changes in the art or requirements for new art shall be indicated. Comments and corrections resulting from the review shall be returned to the contractor for inclusion in the reproducible copy.

4.2.2 Review of reproducible copy and proof copies. Reproducible copy of changes shall be reviewed and proof copies furnished as specified for the basic manual.

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4.3 Revisions. Revisions shall normally be prepared, reviewed and approved, and proof copies furnished as specified for the basic manual. Updated copies of the previous issue of the manual may be used for review/verification.

4.4 Negatives. Negatives shall meet the requirements of MIL-P-38790.

## 5. PREPARATION FOR DELIVERY

5.1 Negatives. Negatives shall be prepared for shipment in accordance with MIL-P-38790 and MIL-M-38784, if required.

5.2 Security Provisions. All shipments shall observe applicable security provisions of the current issue of the DoD Industrial Security Manual.

## 6. NOTES

6.1 Intended use. Technical manuals prepared according to this specification are for use in the loading of nuclear munitions on or into strategic bomber aircraft.

6.2 Ordering data. Procurement documents should specify:

- a. Title, number, and date of this specification.
- b. If data are to be submitted as other than negatives.
- c. Scope of coverage (number of volumes).

Custodian  
Air Force - 15

Preparing Activity  
Air Force - 15

Review Activities  
Air Force - 16, 79, 01, 10

Project No. TMSS-F324

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DEPARTMENT OF THE NAVY

POSTAGE AND FEES PAID  
NAVY DEPARTMENT

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OFFICIAL BUSINESS

AFWL (SEW)  
Kirtland AFB NM 87117

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SPECIFICATION ANALYSIS SHEET		Form Approved Budget Bureau No. 119-B004
<u>INSTRUCTIONS</u>		
<p>This sheet is to be filled out by personnel either Government or contractor, involved in the use of the specification in procurement of products for ultimate use by the Department of Defense. This sheet is provided for obtaining information on the use of this specification which will insure that suitable products can be procured with a minimum amount of delay and at the least cost. Comments and the return of this form will be appreciated. Fold on lines on reverse side, staple in corner, and send to preparing activity (as indicated on reverse hereof).</p>		
SPECIFICATION		
MIL-M-27586C		
ORGANIZATION (Of submitter)		CITY AND STATE
CONTRACT NO.	QUANTITY OF ITEMS PROCURED	DOLLAR AMOUNT
MATERIAL PROCURED UNDER A		\$
<input type="checkbox"/> DIRECT GOVERNMENT CONTRACT <input type="checkbox"/> SUBCONTRACT		
1. HAS ANY PART OF THE SPECIFICATION CREATED PROBLEMS OR REQUIRED INTERPRETATION IN PROCUREMENT USE?		
A. GIVE PARAGRAPH NUMBER AND WORDING.		
B. RECOMMENDATIONS : IMPROVING THE DEFICIENCIES.		
2. COMMENTS ON ANY SPECIFICATION REQUIREMENT CONSIDERED TOO RIGID		
3. IS THE SPECIFICATION RESTRICTIVE?		
<input type="checkbox"/> YES <input type="checkbox"/> NO IF "YES", IN WHAT WAY?		
4. REMARKS (Attach any pertinent data which may be of use in improving this specification. If there are additional papers, attach to form and place both in an envelope addressed to preparing activity)		
SUBMITTED BY (Printed or typed name and activity)		DATE