NOTE: The document identifier and heading has been changed on this page to reflect that this is a performance specification. There are no other changes to this document. The document identifier on subsequent pages has not been changed, but will be changed the next time this document is revised.

**NOT MEASUREMENT SENSITIVE**

MIL-PRF-5920E(USAF)
6 July 1993

SUPERSEDING
MIL-M-5920D (USAF)
7 September 1981

**PERFORMANCE SPECIFICATION**

# MANUALS, TECHNICAL AND CHECKLISTS: SAMPLE BASIC WEIGHT CHECKLISTS AND LOADING DATA

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

## 1. SCOPE.

1.1 Scope. This specification covers the preparation of the Sample Basic Weight Checklists and Loading Data aircraft manuals. These manuals consist of TO 1X-XXXX-5-1, Sample Basic Weight Checklist (Chart A) and TO 1X-XXXX-5-2, Loading Data (Chart E) as approved for use in TO 1-1B-40 and development under provisions of MIL-W-25140. In addition to "paper" delivery, this specification provides for electronic delivery of data through the use of the Document Type Definitions (DTD) contained in Appendixes A and B.

## 2. APPLICABLE DOCUMENTS.

2.1 Government documents.

2.1.1 Specifications, standards and handbooks. The following specifications, standards and handbooks form a part of this document to the extent specified herein. Unless otherwise

**Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: HQ AFLC/ENCS, Wright Patterson AFB, OH 45433-5000, by using the self addressed Standardization document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.**

**AMSC F6921** **AREA TMSS**

specified, the issues of these documents are those listed in the issue of the Department of Defense Index of Specifications and Standards (DODISS) and supplement thereto, cited in the solicitation (see 6.2).

SPECIFICATIONS

Military

| | |
|---|---|
| MIL-W-25140 | Weight and Balance Control System (For Aircraft and Rotorcraft) |
| MIL-M-38784 | Manuals, Technical: General Style and Format Requirements |
| MIL-P-38790 | Printing Production of Technical Manuals: General Requirements for |
| MIL-M-85337 | Manuals, Technical: Quality Assurance Program; Requirements for |

(Unless otherwise indicated, copies of federal and military specifications, standards and handbooks are available from the Standardization Documents Order Desk, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.)

2.1.2 Other Government documents, drawings and publications. The following other Government documents, drawings and publications form a part of this document to the extent specified herein. Unless otherwise specified, the issues are those cited in the solicitation.

PUBLICATIONS

Air Force Technical Manuals

| | |
|---|---|
| TO 1-1B-40 | Weight and Balance Data |
| TO 1-1B-50 | Basic Technical Order for USAF Aircraft Weight and Balance |

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

2.2 Order of precedence. In the event of a conflict between the text of this document and the references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

## 3. REQUIREMENTS.

3.1 Source of technical data. Charts A and E, as approved by the acquiring activity engineering personnel, shall be used as the contents of the TO 1X-XXXX-5-1 (Sample Basic Weight Checklists) and the TO 1X-XXXX-5-2 (Loading Data) manuals for the applicable Type/Model/Series aircraft or rotorcraft. Chart A is the DD Form 365-1, Basic Weight Checklist Record. Chart E is not a standard form but any of the graphs, charts or tables in TO 1X-XXXX-5-2 that provides loading data. These data shall be initially prepared by the contractor under the provisions of MIL-W-25140 for Air Force completion of the Weight and Balance Handbook for representative or individual aircraft as specified in TO 1-1B-50.

3.2 Development and preparation. The general manner of development and preparation for manuals shall be in accordance with MIL-M-38784 and MIL-P-38790.

3.3 Sample basic weight checklists (TO 1X-XXXX-5-1). The sample Basic Weight Checklists and diagrams shall be legible either when the manual is viewed vertically (normal reading position) or when the manual is rotated from the vertical 90 degrees clockwise.

3.3.1 Sample basic weight checklists manual arrangement. Appendix A provides the DTD for electronic delivery of this manual. Each sample Basic Weight Checklists manual shall consist of the following:

a. Front Matter

b. Chapter 1 - Introduction

c. Chapter 2 - Sample Basic Weight Checklists (Chart A)

3.3.1.1 Front matter. The front matter shall consist of a title page, list of effective pages and a table of contents in accordance with MIL-M-38784 with the following exceptions.

3.3.1.1.1 Sample basic weight checklists title. The words "SAMPLE BASIC WEIGHT CHECKLISTS" shall be used as the type of publication. The aircraft type designation shall be used as the prime title.

3.3.1.2 Chapter 1 - Introduction. Chapter 1 shall contain the foreword/preface/introduction requirements of MIL-M-38784. In addition, it shall include an explanation of how to use and maintain the sample Chart A, and create a new Chart A (see Figure 1).

3.3.1.3 Chapter 2 - Sample basic weight checklists (chart A). Chapter 2 shall begin by identifying the sample Basic Weight Checklists contained in the manual (see Figure 2). The remainder of Chapter 2 shall consist of the sample Basic Weight Checklists. These lists shall be identical to the final approved Chart A, as specified in 3.1, except that the words "Sample Only" shall be printed immediately following the aircraft Type/Model/Series designation in the Model/Design/Series block and the "RECORD OF CHECKING" columns shall be blank. Unless otherwise specified, illustrations of the Chart A item locations shall be included and shall be inserted as a facing page to the corresponding items listing (see Figure 3 and 6.2).

3.4 Loading data (TO 1X-XXXX-5-2). Loading Data, charts, tables and diagrams shall be legible either when the manual is viewed vertically (normal reading position) or when the manual is rotated from the vertical 90 degrees clockwise.

3.4.1 Loading data manual arrangement. Appendix B provides the DTD for electronic delivery of this manual. Each Loading Data manual shall consist of the following:

a. Front Matter

b. Chapter 1 - Introduction

c. Chapter 2 - Loading Data

3.4.1.1 Front matter. The front matter shall consist of a title page, list of effective pages, table of contents, list of illustrations and list of tables in accordance with MIL-M-38784 with the following exceptions.

3.4.1.1.1 Loading data title. The words "LOADING DATA" shall be used as the type of publication. The aircraft type designation shall be used as the prime title.

3.4.1.2 Chapter 1 -Introduction. Chapter 1 shall contain the foreword/preface/introduction requirements of MIL-M-38784. In addition, it shall include a weight and balance classification reference and an explanation of how to use the Chart E (see Figure 4).

3.4.1.3 Chapter 2 - Loading Data. Chapter 2 shall begin by delineating weight and balance control requirements, aircraft weighing requirements and intervals, and the contained Loading Data (Chart E). The acquiring activity will determine weighing intervals (see 6.2). Figures 5 and 6 represent Chapter 2 examples for Class 1 and Class 2 aircraft, respectively. The remainder of Chapter 2 shall consist of the Loading Data identical to the

final approved Chart E as specified in 3.1. Chart E shall begin with general aircraft weighing instructions, aircraft diagram and general notes affecting aircraft loading. The remaining Chart E content, such as loading tables, graphs, etc, shall appear in the order of use on the Form F - Weight and Balance Clearance Form (DD Form 365-4), as represented in Figures 5, 6, and 7. Necessary Chart E additions or deletions shall be made as specified or approved by the acquiring activity (see 6.2).

## 4. QUALITY ASSURANCE PROVISIONS.

4.1 Responsibility for inspection. Unless otherwise specified in the contract or purchase order, the contractor is responsible for the performance of all inspection requirements (examinations and tests) as specified herein (see 6.2). Except as otherwise specified in the contract or purchase order, the contractor may use his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. The Government reserves the right to perform any of the inspections set forth in this specification where such inspections are deemed necessary to ensure supplies and services conform to the prescribed requirements.

4.1.1 Responsibility for compliance. All items shall meet all requirements of Sections 3 and 5. The inspection set forth in this specification shall become a part of the contractor's overall inspection system or quality program. The absence of any inspection requirements in the specification shall not relieve the contractor of the responsibility of ensuring that all products or supplies submitted to the Government for acceptance comply with all requirements of the contract. Sampling inspection, as part of manufacturing operations, is an acceptable practice to ascertain conformance to requirements, however, this does not authorize submission of known defective material, either indicated or actual, nor does it commit the Government to accept defective material.

4.2 Quality conformance inspection. Material furnished in accordance with this specification shall be inspected by the contractor for conformance to the applicable requirements of this document in accordance with MIL-M-38784, MIL-P-38790 and, when a contractual requirement, MIL-M-85337.

4.3 Government inspection. Material furnished in accordance with this specification shall be subject to inspection, verification and approval or disapproval by the Government as specified by the terms of the contract. Inspection/verification will be performed by the Government prior to acceptance.

## 5. PACKAGING.

5.1 Packaging requirements. Packaging shall be in accordance with MIL-M-38790.

## 6. NOTES.

(This section contains information of a general or explanatory nature that may be helpful, but is not mandatory.)

6.1 Intended use. The technical manuals prepared in accordance with this document provide required information to service activities for preparing the checklists for insertion into the Weight and Balance Handbook for individual aircraft and the necessary Loading Data and restrictions required to complete DD Form 365-4. These manuals provide guidance and instruction for specific Type/Model/Series aircraft to better facilitate compliance with weight and balance requirements. In addition, the Sample Basic Weight Checklists and Loading Data manuals serve as the baseline for updating individual aircraft Weight and Balance Handbooks.

6.2 Acquisition requirements. Acquisition documents must specify the following:

a. Title, number, and date of this document.

b. Issue of the DODISS to be cited in the solicitation, and if required, the specific issue of individual documents referenced (2.1.1).

c. If illustrations of the Chart A item locations shall be other than as specified in this document (3.3.1.3).

c. If weighing intervals shall be other than as specified in this document (3.4.1.3).

d. If Chart E additions or deletions shall be made (3.4.1.3).

e. If performance of inspections shall be other than as specified in this document (4.1).

g. If representative aircraft are within ± % MAC CG and ± pounds (Figure 5, 2.1.1.2).

h. Address of logistics center assigned maintenance engineering responsibility for the aircraft (Figure 5, 2.1.3).

i. If specific weighing requirements will be specified as sub-paragraphs (Figure 6, 2.1.2.1).

j. Address of logistics center assigned maintenance engineering responsibility for the aircraft (Figure 6, 2.1.3).

6.3 Technical manual acquisition. To acquire the technical manuals described herein, this specification must be listed in AF Technical Manual Contract Requirements (TMCR) TM-86-01, which in turn is listed in the Contract Data Requirements List (DD Form 1423), except where DOD FAR Supplement 27.475-1 exempts the requirement for a DD Form 1423.

6.4 Acronyms. The acronyms used in this document are defined as follows:

AFR - Air Force Regulation

CG - Center of Gravity

DD - Defense Department

DOD - Department of Defense

DODIS - Department of Defense Index of Specifications and Standards

DTD - Document Type Definition

MAC - Maximum Allowable Concentration

TCTO - Time Compliance Technical Order

TMCR - Technical Manual Contract Requirements

TO - Technical Order

Vs - Versus

6.4 Aircraft weight and balance classification. Aircraft weight and balance classifications (Class 1 and Class 2 aircraft) are defined in MIL-W-25140 and TO 1-1B-50.

6.6 Subject term (key word) listing.

Chart A
Chart E
Class 1 Aircraft
Class 2 Aircraft

DD Form 365
Form F
Loading Data
Weight and Balance

6.7 Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extensiveness of the changes.

Custodian:
Air Force - 16

Preparing Activity:
Air Force - 16

Reviewers:
Air Force - 01, 10, 99

(Project TMSS-F594)

# CHAPTER 1 INTRODUCTION

1.1 PURPOSE AND SCOPE.

This technical manual contains Sample Basic Weight Checklists (Charts A) which are applicable to model F-15 aircraft. These charts are intended to assist using personnel in complying with the requirements of TO 1-1B-50 by providing data for insertion into the Weight and Balance Handbook.

1.2 HOW TO USE SAMPLE CHARTS A.

The Sample Charts A are tabulations of all fixed operating equipment items which have definite locations, or may be installed, or are alternate installations for standard equipment items in the aircraft. The weight, arm, and simplified moment are given for each Chart A item. The Sample Charts A presented herein are intended to be used only as a guide in preparing a new Basic Weight Checklist for insertion into the Weight and Balance Handbook for representative or individual aircraft. Do not use sample Chart A for inventorying equipment on the aircraft. Detailed procedures for preparing and maintaining Basic Weight Checklists (Chart A) are contained in TO 1-1B-40.

1.3 CREATING NEW CHARTS A.

When it is necessary to create a new Chart A, use the enclosed Sample Basic Weight Checklist in the Weight and Balance Handbook by deleting or crossing out the words "SAMPLE ONLY" on each page and adjusting the items to match the individual aircraft configuration. Do this by crossing out those items not applicable to the aircraft and adding new items as appropriate. When the Sample Basic Weight Checklists are converted to the individual aircraft configuration, maintain it as a checklist, not as part of the TO 1X-XXXX-5-1.

1.4 ROUND OFF.

The weights and arms are rounded to whole numbers. Simplified moments are rounded to one decimal place. Use the arm for inventorying the aircraft, and the weight and moment for weight tracking. Because of the round-off error, multiplying weight times arm may not reflect the published moment; likewise, moment divided by weight may not reflect the published arm.

1.5 RECORD OF APPLICABLE TIME COMPLIANCE TECHNICAL ORDERS (TCTO).

The record of applicable time compliance technical orders is a list of all TCTOs which affect the technical content (text or illustrations) of this manual. The Change/Revision/Supplement Data column lists the date of issue when each change was (or will be) incorporated into this manual. Only currently effective changes are listed. A TCTO is deleted from the list when either the applicable equipment configuration is no longer covered in the publication or it is rescinded, superseded, or replaced.

FIGURE 1. Example chapter 1, introduction - sample basic weight checklists manual.

MIL-M-5920E(USAF)

1-6 YOUR RESPONSIBILITY TO LET US KNOW.

Every effort is made to keep the manual current; however, we cannot correct an error unless we know of its existence. In this regard it is essential that you do your part. Comments, corrections, and questions regarding this manual or any phase of the basic weight and loading data are welcome. These should be forwarded on AF Form 847 as directed by AFR 60-9 through your command headquarters.

FIGURE 1. Example chapter 1, introduction - sample basic weight checklists manual - Continued.

# CHAPTER 2 SAMPLE BASIC WEIGHT CHECKLISTS (CHARTS A)

2.1 PURPOSE.

The Sample Basic Weight Checklists contained herein are to be used only as guides for preparing new Charts A for insertion into the Weight and Balance Handbook for representative or individual aircraft. Preparation procedures for Chart A are found in T.O. 1-1B-40

2.2 SAMPLE CHART A, F-15A, 72-113 THRU 72-115 AND 72-119.

Figure 2-1 contains Chart A data which reflects an aircraft configuration which is representative of Air Force Serial Number 72-113 thru 72-115 and 72-119 aircraft. The physical location of each fixed equipment item is shown in the view on the facing page opposite the Chart A listing

2.3 SAMPLE CHART A, F-15A 73-085 AND UP.

Figure 2-2 contains Chart A data which reflects an aircraft configuration which is representative of Air Force Serial Number 73-085 and up aircraft. The physical location of each fixed equipment item is shown in the view on the facing page opposite the Chart A listing.

2.4 SAMPLE CHART A, TF-15A 73-108 AND UP.

Figure 2-3 contains Chart A data which reflects Model TF-15A aircraft configuration and is representative of Air Force Serial Number 73-108 and up aircraft. The physical location of each fixed equipment item is shown in the view on the facing page opposite the Chart A listing.

FIGURE 2. Example chapter 2 lead-in, sample basic weight checklists manual.

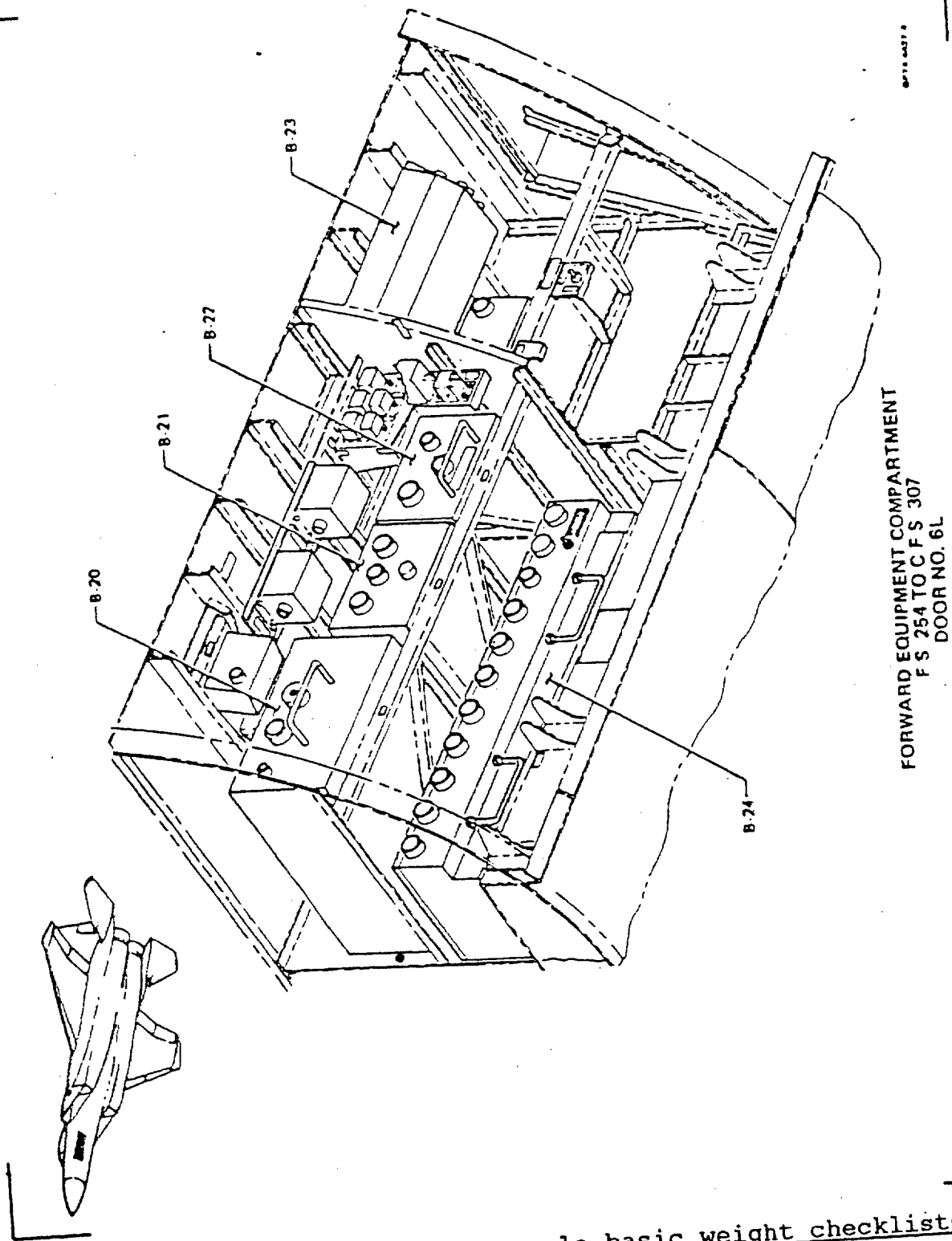
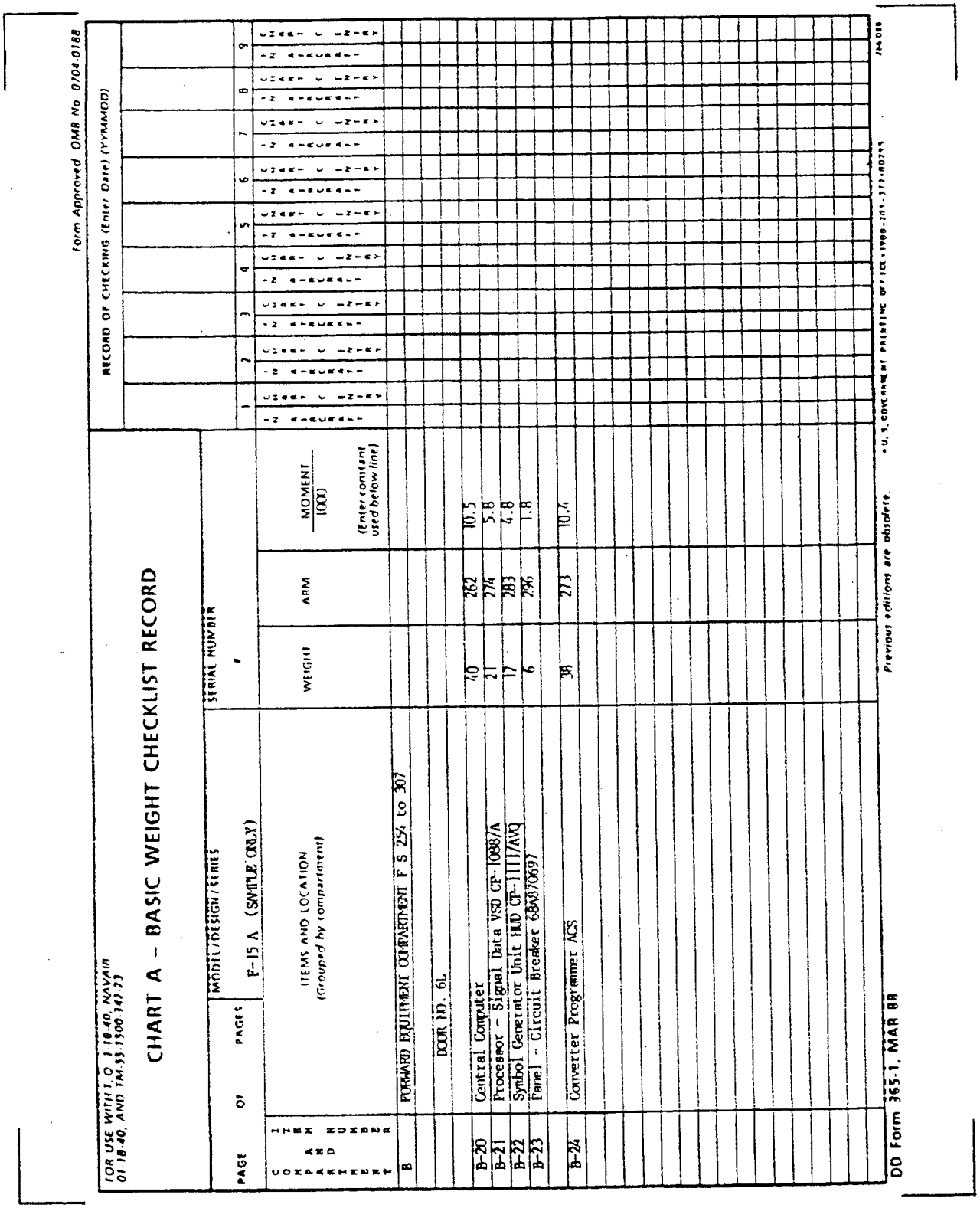



FIGURE 3. Example chapter 2, sample basic weight checklists - sample basic weight checklists manual.



Form Approved OMB No 0704-0188

FOR USE WITH T.O. 1-1B-40, NAVAIR 01-1B-40, AND TM 55-1500-342-23

# CHART A - BASIC WEIGHT CHECKLIST RECORD

PAGE ___ OF ___ PAGES

MODEL/DESIGN/SERIES: F-15 A (SINGLE ONLY)

SERIAL NUMBER: ,

RECORD OF CHECKING (Enter Date) (YYMMDD)

| ITEM NO. | ITEMS AND LOCATION (Grouped by compartment) | WEIGHT | ARM | MOMENT / 1000 (Enter constant used below line) |
|---|---|---|---|---|
| B | FORWARD EQUIPMENT COMPARTMENT F S 254 to 307 | | | |
| | DOOR NO. 6L | | | |
| B-20 | Central Computer | 40 | 262 | 10.5 |
| B-21 | Processor - Signal Data VSD CP-1088/A | 21 | 274 | 5.8 |
| B-22 | Symbol Generator Unit HUD CP-1111/AVQ | 17 | 283 | 4.8 |
| B-23 | Panel - Circuit Breaker 6868/7069 | 6 | 296 | 1.8 |
| B-24 | Converter Programmer ACS | 38 | 273 | 10.4 |

DD Form 365-1, MAR 88

Previous editions are obsolete.

• U.S. GOVERNMENT PRINTING OFFICE: 1988-201-372/80795

714 088

FIGURE 3. Example chapter 2, sample basic weight checklists - sample basic weight checklists manual - Continued.

# CHAPTER 1 INTRODUCTION

## 1.1 PURPOSE AND SCOPE

This technical manual contains Loading Data (Chart E) which are applicable to Model F-15A aircraft. These charts are intended to assist using personnel in complying with the requirements of TO 1-1B-50 by providing data for insertion into the DD365 series forms for *(representative/ individual) aircraft. This information is of a specific nature and except where specifically stated herein , does not relieve any of the general requirements for USAF aircraft weight and balance found in TO 1-1B-50. *(Contractor, insert correct term as applicable per TO 1-1B-50, Section IV.)

## 1.2 WEIGHT AND BALANCE CLASSIFICATION

In accordance with the criteria presented in TO 1-1B-50, the weight and balance classification of clearance will be as required by TO 1-1B-50 for Class *_____ aircraft.

*NOTE

The contractor will fill in the aircraft model and the weight and balance classification in accordance with that specified in Section IV of TO 1-1B-50. TO 1-1B-50 is the controlling document for USAF aircraft weight and balance classification. Recommendations for changing aircraft weight and balance classification will be made on AF Form 847 in accordance with AFR 60-9.

## 1.3 HOW TO USE CHART E

Chart E provides data necessary to comply with DD Form 365-4 (Form F) Weight and Balance Clearance requirements. Weight and simplified moments are obtained from the Chart E for all the variable load items and are added, in the appropriate reference on Form F, to the aircraft's current basic weight and simplified moment from Chart C (DD Form 365-3). This total represents the gross weight and simplified moment of the loaded aircraft. Inflight center of gravity effects, such as fuel and bomb expenditures, are checked by subtracting the weights and simplified moments of such items from the takeoff condition. The resultant new weight and simplified moment are checked to assure that the center of gravity remains within limits during the entire flight. Detailed instructions for preparing the DD Form 365-4 are contained in TO 1-1B-40.

## 1.4 RECORD OF APPLICABLE TIME COMPLIANCE TECHNICAL ORDERS (TCTOS)

The record of applicable time compliance technical orders is a list of all TCTOs which affect the technical content (text or illustrations) of this manual. The Change/Revision/Supplement Data column lists the date of issue when each change was (or will be) incorporated into this manual. Only currently effective changes are listed. A TCTO is deleted from the list when either the applicable equipment configuration is no longer covered in the publication or it is rescinded, superseded, or replaced.

FIGURE 4. Example chapter 1, introduction - loading data.

1.5 YOUR RESPONSIBILITY TO LET US KNOW

Every effort is made to keep the manual current; however, we cannot correct an error unless we know of its existence. In this regard it is essential that you do your part. Comments, corrections, and questions regarding this manual or any phase of the basic weight and loading data are welcome. These should be forwarded on AF Form 847 as directed by AFR 60-9 through your command Headquarters.

FIGURE 4. Example chapter 1, introduction - loading data - Continued.

# CHAPTER 2 LOADING DATA

2.1 WEIGHT AND BALANCE REQUIREMENTS.

2.1.1 General. This chapter provides specific requirements for weight and balance control of Model T-37B aircraft in accordance with the general requirements found in TO 1-1B-50. This information is of a specific nature and, except where specifically stated herein, does not relieve any of the general requirements of TO 1-1B-50.

2.1.1.2 Maintaining Manuals. Weight and Balance personnel (per TO 1-1B-50) will maintain a current Weight and Balance Handbook for each representative aircraft.

NOTE

A representative aircraft is one which serves to represent all aircraft that are within ± _____*_____% MAC center of gravity and ± _____*_____ pounds of the representative aircraft basic weight center of gravity location and basic weight. To satisfy this criteria, more than one representative aircraft may be required for proper weight and balance monitoring of all assigned aircraft.
*(To be determined by acquiring activity.)

2.1.1.3 Specific Requirements. Specific weight and balance requirements will be listed here as sub-paragraphs.

2.1.2 Weighing Requirements. In addition to the general weighing requirements specified in Section IV of TO 1-1B-50, T-37B model aircraft will be inventoried and weighed at least once every 48 months. This time interval weighing is required to insure that the cumulative effects of minor modifications and repairs on the aircraft basic weight and center of gravity location are accurately known. Aircraft time interval weighing should be scheduled in conjunction with the scheduled phase inspection which will precede the 48 month time interval limit.

2.1.3 Weighing Record. After completion of the Aircraft Weighing Record (DD Form 365-2) forward one copy to:

List the address of the Logistics Center which is assigned the maintenance engineering management responsibility for the aircraft. The acquiring activity will provide the proper address.

2.1.4 Chart E, T-37B 59-256 and up. Figure 2-1 contains the Chart E Loading Data, applicable to model T-37B aircraft Serial Numbers 59-256 and up, which are necessary for computing aircraft weight and balance and for completion of DD Form 365-4 Weight and Balance Clearance Form F, when required.

FIGURE 5. Example chapter 2 lead-in, loading data manual (class 1 aircraft).

# CHAPTER 2 LOADING DATA

## 2.1 WEIGHT AND BALANCE REQUIREMENTS

2.1.1 General. This chapter provides specific requirements for weight and balance control of Model F/TF-15A aircraft in accordance with the general requirements found in TO 1-1B-50. This information is of a specific nature and, except where specifically stated herein, does not relieve any of the general requirements of TO 1-1B-50.

2.1.1.2 Maintaining Manuals. Weight and balance personnel (per TO 1-1B-50) will maintain a current Weight and Balance Handbook for each aircraft.

2.1.1.3 Center of Gravity. It is possible to exceed the center of gravity limits of the aircraft with certain store configurations. Therefore, weight and balance clearance (DD Form 365-4), in accordance with Section IV of TO 1-1B-50, will be accomplished prior to each flight.

2.1.1.4 Specific Requirements. Specific weight and balance requirements will be listed here as sub-paragraphs.

2.1.2 Weighing Requirements. In addition to the general weighing requirements specified in Section IV of TO 1-1B-50, F/TF-15A model aircraft will be inventoried and weighed at least once every 36 months. This time interval weighing is required to insure that the cumulative effects of minor modifications and repairs on the aircraft basic weight and center of gravity location are accurately known. Aircraft time interval weighing should be scheduled in conjunction with the scheduled phase inspection which will precede the 36 month time interval limit.

2.1.2.1 Specific Weighing Requirements. When required by the acquiring activity, specific weighing requirements such as after engine change, etcetera will be specified here as sub-paragraphs.

2.1.3 Weighing Record. After completion of the Aircraft Weighing Record (DD Form 365-2), forward one copy to:

> List the address of the Air Logistics Center which is assigned the maintenance engineering management responsibility for the aircraft. The acquiring activity will provide the proper address.

2.1.4 Chart E, F/TF-15A 72-113 and Up. Figure 2-1 contains the Chart E Loading Data, applicable to model F/TF-15A aircraft Serial Numbers 72-113 and up, which are necessary for computing aircraft weight and balance required for completion of DD Form 365-4 Weight and Balance Clearance Form F.

FIGURE 6. Example chapter 2 lead-in, loading data manual (class 2 aircraft).

Weight and Balance Requirements
Weighing Requirements
Weighing Record
General Weighing Instructions
    Aircraft Conditions
    Fuel Drains
    Engine Oil
    Procedures
    Leveling
    Measuring
Aircraft Diagram
  * Jack Points
    Dimensions Pertaining to Aircraft Weight and Balance
    Fuel Tank Arrangement
Notes Affecting Aircraft Loading
    Engine Oil Table
    Crew Tables
    Ammunition Tables
    Stores Tables and Diagrams
    Fuel Tables
    Water Injection Fluid Tables
    Miscellaneous Data Tables
    Center of Gravity Limits
    Instructions for Loading
        Sample Form F
        Forward CG Calculations
        Aft CG Calculations
    Typical Service Load Conditions
    Takeoff and Landing Gross Weight Restrictions
    Center of Gravity and Percent MAC Calculations
    Moment/Weight CG Conversion Table
    Gross Weight vs CG Position Plots

* Identify if nose or tail jack points were used and which points were used to calculate weight and CG position.

FIGURE 7. Example order for chart E data loading data manual.

# SAMPLE BASIC WEIGHT CHECKLISTS
# DOCUMENT TYPE DEFINITION (DTD) SUBSET

## 10. SCOPE.

10.1 Scope. The markup tags described herein are based on rules outlined in the Information Processing, Text and Office Systems, Standard Generalized Markup Language (SGML) Standard, FIPS 152 (ISO 8879) and MIL-M-28001. The Document Type Definition (DTD) subset within this appendix provides the structure and content of documents prepared in accordance with this specification; the Tag Description table within this appendix provides a detailed discussion of each markup tag. This Appendix is a mandatory part of this specification. The information contained herein is intended for compliance.

## 20. APPLICABLE DOCUMENTS.

20.1 Government documents.

20.1.1 Specifications, standards, and handbooks. The following specifications, standards and handbooks form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those listed in the issue of the Department of Defense Index of Specifications and Standards (DODISS) and supplement thereto, cited in the solicitation (see 6.2).

SPECIFICATIONS

Military

| | |
|---|---|
| MIL-M-28001 | Markup Requirements and Generic Style Specification for Electronic Printed Output and Exchange of Text |

STANDARDS

Federal Information Processing Standards

| | |
|---|---|
| FIPS 152 | Standard Generalized Markup Language (SGML) |

(Unless otherwise indicated, copies of federal and military specifications, standards and handbooks are available from the Standardization Documents Order Desk, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.)

(Copies of Federal Information Processing Standards (FIPS) are available to Department of Defense activities from the Standardization Documents Order Desk, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094. Others must request copies of FIPS from the National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161-2171.)

30. **DOCUMENT TYPE DEFINITION SUBSET.**

30.1 SGML document type definition subset. Data to be delivered digitally in accordance with this specification shall be SGML tagged using the DTD found in MIL-M-38784 as modified by the DTD subset in this section. The procedure for accomplishing this is found in MIL-M-28001 and FIPS 152 (ISO 8879).

30.2 Template document type for Sample Basic Weight Checklists. The DTD subset for the Sample Basic Weight Checklists DTD is as follows:

```
<!-- The following set of declarations may be referred to by
using a public entity as follows:

<!ENTITY % m5920e-a PUBLIC
     "-//USA-DOD//DTD MIL-M-5920E BWGT//EN" >
%m5920e-a;
-->

<!-- NOTE: In order to parse the following DTD subset alone,
append the following statement to the beginning of the file:

     <!DOCTYPE docbaswgtcl [

and the associated "]>" to the end of the file. -->

<!-- ENTITY DECLARATIONS -->

<!ENTITY % m38804b PUBLIC
     "-//USA-DOD//DTD MIL-T-38804B TCTO//EN" >

%m38804b;

<!ENTITY % bodyele "(basintro, baswgtcl)" >

<!ENTITY % frnt "(idinfo, lep, verstat?, contents, safesum?)" >

<!ENTITY % content
"texttype NUMBER #IMPLIED
applictype IDREFS #IMPLIED
```

```
applicrefid IDREFS # IMPLIED
skilltrk NMTOKENS #IMPLIED
contype (desc | proc) #IMPLIED
assocfig IDREFS #IMPLIED
assoctab IDREFS #IMPLIED" >

<!ENTITY % yesorno "NUMBER" >

<!ENTITY % bodyatt
"id ID #IMPLIED
inschlvl NUTOKEN #IMPLIED
delchlvl NUTOKEN #IMPLIED
revchg %yesorno; '0'
label NMTOKEN #IMPLIED
hcp %yesorno; '0'
esds %yesorno; '0'
%content;" >

<!ENTITY % committ1
"tocentry %yesorno; '1'
shortentry %yesorno; '0'
verified %yesorno; '0'
%bodyatt;" >

<!ENTITY % committ2
"tocentry %yesorno; '1'
shortentry %yesorno; '0'
%bodyatt;" >

<!-- ELEMENT and ATTRIBUTE LIST DECLARATIONS -->

<!ELEMENT basintro      - - (%fpi;, usecharta)  +(figure | table)>
<!ATTLIST basintro      %committ2; > >

<!ELEMENT baswgtcharta      - o ((compartment, (%wb;)+)+)
                            +(note) >
<!ATTLIST baswgtcharta      constant NUMBER #REQUIRED
                            %committ1; >

<!ELEMENT baswgtcl      - - (%parazero;, baswgtcharta)  +(figure |
                        table) >
<!ATTLIST baswgtcl      %committ2; >

<!ELEMENT docbaswgtcl       - -  (front, body, rear?)  +(pgbrk |
                            brk) >
<!ATTLIST docbaswgtcl       service %service; 'AF'
                            %secur;
                            %docatt; >
```

```
<!ELEMENT usecharta      - o (%parazero;)  >
<!ATTLIST usecharta      %commattl; >
```

40. **DETAILED TAG DESCRIPTION.**

40.1 Attribute Description Table. The following table provides detailed descriptions of the attributes above.

## Table A-I. Attribute Description

| Attribute | Description |
|---|---|
| %bodyatt<br>applicrefid = x<br>applictype = x<br>assocfig = x<br>assoctab = x<br>contype = x<br>delchlvl = x<br>esds = x<br>hcp = x<br>id = x<br>inschlvl = x<br>revchg = x<br>skilltrk = x<br>texttype = x | Optional Attribute(s):<br><br>APPLICREFID: References unique identifier(s) assigned to applicability identifier(s) (<applicid id="xxx">). The value of this attribute consists of a list of references to names previously entered as unique identifiers of other elements. If no value is specified for this attribute, one may be implied by the system.<br><br>APPLICTYPE: This attribute references unique identifier(s) assigned to applicability definitions (<applicdef id="xxx">). Although it is possible to derive the applicability type from the applicability reference identifier, it may be explicitly stated with this attribute. The value of this attribute consists of a list of references to names previously entered as unique identifiers of other elements. If no value is specified for this attribute, one may be implied by the system.<br><br>ASSOCFIG: Identifies a figure associated with the element through the use of the "id" attribute in the figure (<figure>) element. The value of this attribute consists of a list of references to names previously entered as unique identifiers of other elements. If no value is specified for this attribute, one may be implied by the system.<br><br>ASSOCTAB: Identifies a table associated with the element through the use of the "id" attribute in the table (<table>) element. The value of this attribute consists of a list of references to names previously entered as unique identifiers of other elements. If no value is specified for this attribute, one may be implied by the system.<br><br>CONTYPE: Identifies the content type of the element. When used with steps, the implied value is procedural. When used with all other element types, the implied value is descriptive. The value of this attribute may be set to one of the following values: "desc" (Descriptive), "proc" (Procedural). If no value is specified for this attribute, one may be implied by the system.<br><br>DELCHLVL: Specifies the change levels at which data was deleted. An audit trail can be maintained by listing multiple change levels separated by spaces. The value of this attribute consists of a name where the first character is numeric. If no value is specified for this attribute, one may be implied by the system.<br><br>ESDS: Electrostatic Discharge Sensitive parts - If the value is set to zero, the element does not contain information involving ESDS parts, components or circuits. If any other value is given, the element does contain information involving ESDS items. The value of this attribute consists of a number. The default value of this attribute is "0".<br><br>HCP: Hardness Critical Process - If the value is set to zero, there is no hardness critical information. If any other value is given, the element contains hardness critical information. The value of this attribute consists of a number. The default value of this attribute is "0". |

## Table A-I. Attribute Description - Continued.

| Attribute | Description |
|---|---|
| %bodyatt - cont. | ID: An identifier of the element which is assigned at origination and which remains unchanged as the document is revised or updated even though the automatically assigned enumeration or manually assigned "labels" change. The value of the "id" is used making references to the element from other portions of a document. If no "id" is given, none will be maintained and the element can then not be cross-referenced to by means of an IDREF on another element or with a cross-reference (<xref>). The value of this attribute defines a unique identifier for the element. If no value is specified for this attribute, one may be implied by the system.<br><br>INSCHLVL: Specifies the change levels at which data was inserted. An audit trail can be maintained by listing multiple change levels separated by spaces. The value of this attribute consists of a name where the first character is numeric. If no value is specified for this attribute, one may be implied by the system.<br><br>REVCHG: This attribute is used when the document has undergone a revision and information has changed between the revision and the last change. This attribute is set to a nonero value to indicate that the information has changed and thereby requires a change mark. The docstat attribute must be set to "revision" for this attribute to have any meaning. When docstat has been assigned a value other than "revision," revchg will be ignored.<br><br>SKILLTRK: Designates the skill level of the user at which the information in this element is aimed. The value of this attribute consists of a list of names where the first character of each name is alphanumeric. If no value is specified for this attribute, one may be implied by the system.<br><br>TEXTTYPE: Specifies a code which further identifies the element. The value of this attribute consists of a number. If no value is specified for this attribute, one may be implied by the system. |
| %commatt1<br>shortentry = x<br>tocentry = x<br>verified = x | Optional Attribute(s):<br><br>SHORTENTRY: Specifies that the shortened title (<shorttitle>) is used for this element. If the value is set to zero, the short title is not used. If any other value is given, the short title will be used. The value of this attribute consists of a number. The default value of this attribute is "0".<br><br>TOCENTRY: Specifies whether the element will be included in the table of contents for the document. If the value is set to zero, the element will not be included in the table of contents. If any other value is given, the element will be included. The value of this attribute consists of a number. The default value of this attribute is "1". |

## Table A-I. Attribute Description - Continued.

| Attribute | Description |
|---|---|
| %commatt1 - cont. | VERIFIED: Specifies the verification status of the information. This information is used to build the verification status (<verstat>) page. If the value is set to zero, the information has not been verified. If any other value is given, the information has been verified. The value of this attribute consists of a number. The default value of this attribute is "0". |
| %commatt2<br>shortentry = x<br>tocentry = x | Optional Attribute(s):<br>SHORTENTRY: Specifies that the shortened title (<shorttitle>) is used for this element. If the value is set to zero, the short title is not used. If any other value is given, the short title will be used. The value of this attribute consists of a number. The default value of this attribute is "0".<br>TOCENTRY: Specifies whether the element will be included in the table of contents for the document. If the value is set to zero, the element will not be included in the table of contents. If any other value is given, the element will be included. The value of this attribute consists of a number. The default value of this attribute is "1". |
| %docatt<br>docid = x<br>docstat = x<br>mantype = x | Required Attribute(s):<br>DOCID: Unique identifier of the document, which can be used to perform interdocument cross references. However, it should be noted that this is a particular of the application and is not an SGML contruct that is validated by the parser. The value of this attribute consists of character data.<br>Optional Attribute(s):<br>DOCSTAT: Specifies the current status of the document publication. The value of this attribute may be set to one of the following values: "revision", "change", "prelim" (Preliminary), "draft", "formal". The default value of this attribute is "prelim".<br>MANTYPE: Designates the manual type of the document. The value of this attribute may be set to one of the following values: "standard", "card", "decal". The default value of this attribute is "standard". |
| %secur<br>security = x | Optional Attribute(s):<br>SECURITY: Specifies the level of security of the element. The value of this attribute may be set to one of the following values: "u" (Unclassified), "c" (Confidential), "s" (Secret). The default value of this attribute is "u". |

40.2 Tag Description Table. The following table provides detailed descriptions of the tags above. It provides the element tagging structure, full element name, tag minimization requirements, element structure, referencing elements, source paragraph, and attribute descriptions.

## Table A-II. Tag Description

| Tag | Description |
|---|---|
| <basintro<br>applicrefid = x<br>applictype = x<br>assocfig = x<br>assoctab = x<br>contype = x<br>delchlvl = x<br>esds = x<br>hcp = x<br>id = x<br>inschlvl = x<br>label = x<br>revchg = x<br>shortentry = x<br>skilltrk = x<br>texttype = x<br>tocentry = x> | **Basic Weight Checklist Introduction**<br><br>Identifies the introduction section of the document.<br><br>The basic weight checklists introduction element requires a starting tag (<basintro>) and an ending tag (</basintro>).<br><br>This element contains the following structure:<br>a group of elements consisting of:<br>one primary paragraph (<para0>) element; followed by,<br>a group of elements consisting of:<br>one primary paragraph (<para0>) element; or,<br>a group of elements consisting of:<br>one sequential list (<seqlist>) element; or,<br>one random list (<randlist>) element; or,<br>one definition list (<deflist>) element;<br>which may occur once; or,<br>one symbol section (<symsect>) element; or,<br>one abbreviation section (<abbrsect>) element; or,<br>a group of elements consisting of:<br>an optional warning (<warning>) element; followed by,<br>an optional caution (<caution>) element; followed by,<br>an optional note (<note>) element;<br>which may occur zero, one, or multiple times; followed by,<br>which may occur once;<br>an optional international standard information (<internatistd>) element; followed by,<br>an optional list of related publications (<lrp>) element; followed by,<br>an optional list of tcto's (<tctolist>) element; followed by,<br>an optional record of applicable technical directives (<ratd>) element; followed by,<br>an optional technical manual improvement report (<tmimprep>) element;<br>which may occur once; followed by,<br>one how to use chart a (<usecharta>) element.<br><br>The basic weight checklist introduction is part of the body matter (<body>).<br><br>Source Paragraph: 3.3.1.2 - MIL-M-5920E<br><br>Optional Attribute(s):<br><br>See the %COMMATT2 entry in the attribute description table for information on the following attributes: TOCENTRY, SHORTENTRY.<br><br>See the %BODYATT entry in the attribute description table for information on the following attributes: APPLICREFID, APPLICTYPE, ASSOCFIG, ASSOCTAB, CONTYPE, DELCHLVL, ESDS, HCP, ID, INSCHLVL, LABEL, REVCHG, SKILLTRK, TEXTTYPE. |

## Table A-II. Tag Description - Continued.

| Tag | Description |
|---|---|
| <baswgtcharta<br>applicrefid = x<br>applictype = x<br>assocfig = x<br>assoctab = x<br>constant = x<br>contype = x<br>delchlvl = x<br>esds = x<br>hcp = x<br>id = x<br>inschlvl = x<br>label = x<br>revchg = x<br>security = x<br>shortentry = x<br>skilltrk = x<br>texttype = x<br>tocentry = x<br>verified = x> | **Basic Weight Checklists Chart A**<br><br>Identifies the basic weight checklists chart a.<br><br>The basic weight checklists chart a element requires a starting tag (<baswgtcharta>) but does not require an ending tag.<br><br>This element contains the following structure:<br>a group of elements consisting of:<br>one compartment (<compartment>) element; followed by,<br>a group of elements consisting of:<br>one item number (<itemno>) element; followed by,<br>one description (<desc>) element; followed by,<br>one weight (<weight>) element; followed by,<br>one arm (<arm>) element; followed by,<br>one moment (<moment>) element;<br>which may occur one or more times;<br>one or more elements;<br>which may occur once.<br><br>The element may also contain (at any point):<br>note (<note>).<br><br>The basic weight checklists chart a is part of the sample basic weight checklists (<baswgtcl>).<br><br>Source Paragraph: 3.3.1.3 - MIL-M-5920E<br><br>Required Attribute(s):<br><br>CONSTANT: Specifies the constant associated with the element. The value of this attribute consists of a number.<br><br>Optional Attribute(s):<br><br>See the %COMMATT1 entry in the attribute description table for information on the following attributes: TOCENTRY, SHORTENTRY, VERIFIED.<br><br>See the %BODYATT entry in the attribute description table for information on the following attributes: APPLICREFID, APPLICTYPE, ASSOCFIG, ASSOCTAB, CONTYPE, DELCHLVL, ESDS, HCP, ID, INSCHLVL, LABEL, REVCHG, SKILLTRK, TEXTTYPE.<br><br>See the %SECUR entry in the attribute description table for information on the following attributes: SECURITY. |

## Table A-II. Tag Description - Continued.

| Tag | Description |
|---|---|
| <baswgtcl<br>applicrefid = x<br>applictype = x<br>assocfig = x<br>assoctab = x<br>contype = x<br>delchlvl = x<br>esds = x<br>hcp = x<br>id = x<br>inschlvl = x<br>label = x<br>revchg = x<br>shortentry = x<br>skilltrk = x<br>texttype = x<br>tocentry = x> | **Sample Basic Weight Checklist**<br><br>Identifies the sample basic weight checklists.<br><br>The sample basic weight checklists element requires a starting tag (<baswgtcl>) and an ending tag (</baswgtcl>).<br><br>This element contains the following structure:<br>a group of elements consisting of:<br>one title (<title>) element; followed by,<br>a warning (<warning>) element which may occur zero, one, or multiple times; followed by,<br>a caution (<caution>) element which may occur zero, one, or multiple times; followed by,<br>a note (<note>) element which may occur zero, one, or multiple times; followed by,<br>a group of elements consisting of:<br>one paragraph (<para>) element; followed by,<br>a note (<note>) element which may occur zero, one, or multiple times;<br>which is optional; followed by,<br>a group of elements consisting of:<br>one first level procedural step (<step1>) element; followed by,<br>one or more first level procedural step (<step1>) elements;<br>which is optional; followed by,<br>a first level subordinate paragraph (<subpara1>) element which may occur zero, one, or multiple times;<br>which may occur once; followed by,<br>one basic weight checklists chart a (<baswgtcharta>) element.<br><br>The sample basic weight checklists element may also contain (at any point):<br>figure (<figure>) or,<br>table (<table>).<br><br>The sample basic weight checklists is part of the body matter (<body>).<br><br>Source Paragraph: 3.3.1.3 - MIL-M-5920E<br><br>Optional Attribute(s):<br><br>See the %COMMATT2 entry in the attribute description table for information on the following attributes: TOCENTRY, SHORTENTRY.<br><br>See the %BODYATT entry in the attribute description table for information on the following attributes: APPLICREFID, APPLICTYPE, ASSOCFIG, ASSOCTAB, CONTYPE, DELCHLVL, ESDS, HCP, ID, INSCHLVL, LABEL, REVCHG, SKILLTRK, TEXTTYPE. |

## Table A-II. Tag Description - Continued.

| Tag | Description |
|---|---|
| <body<br>security = x> | **Body Matter**<br>Identifies the body of the document.<br>The body matter element requires a starting tag (<body>) and an ending tag (</body>).<br>This element contains the following structure:<br>a group of elements consisting of:<br>one basic weight checklists introduction (<basintro>) element; followed by,<br>one sample basic weight checklists (<baswgtcl>) elements.<br>which may occur once.<br>The body matter element may also contain (at any point):<br>footnote (<ftnote>).<br>The body matter is part of the document (<docbaswgtcl>).<br>Source Paragraph: 3.3.1.2 - 3.3.1.3 - MIL-M-5920E<br>Optional Attribute(s):<br>See the %SECUR entry in the attribute description table for information on the following attributes: SECURITY. |
| <docbaswgtcl<br>docid = x<br>docstat = x<br>mantype = x<br>security = x<br>service = x> | **Document**<br>Identifies the beginning of the document.<br>The document element requires a starting tag (<docbaswgtcl>) and an ending tag (</docbaswgtcl>).<br>This element contains the following structure:<br>one front matter (<front>) element; followed by,<br>one body matter (<body>) element; followed by,<br>an optional rear matter (<rear>) element.<br>The document element may also contain (at any point):<br>page break (<pgbrk>) or,<br>user created break (<brk>).<br>The document is not part of any other element.<br>Source Paragraph: 3.3 - MIL-M-5920E<br>Required Attribute(s):<br>See the %DOCATT entry in the attribute description table for information on the following attributes: DOCID, DOCSTAT, MANTYPE. |

## Table A-II. Tag Description - Continued.

| Tag | Description |
|---|---|
| <docbaswgtcl> - cont. | Optional Attribute(s):<br><br>SERVICE: Specifies the service which is primarily responsible for the document. The value of this attribute may be set to one of the following values: "AF" (Air Force), "NAVY", "ARMY", "MC" (Marine Corps), "DLA" (Defense Logistics Agency), "CG" (Coast Guard). The default value of this attribute is "AF".<br><br>See the %SECUR entry in the attribute description table for information on the following attributes: SECURITY. |
| <front<br>security = x> | **Front Matter**<br><br>Identifies the front matter.<br><br>The front matter element requires a starting tag (<front>) and an ending tag (</front>).<br><br>This element contains the following structure:<br>a group of elements consisting of:<br>one identification information (<idinfo>) element; followed by,<br>one list of effective pages (<lep>) element; followed by,<br>an optional verification status pages (<verstat>) element; followed by,<br>one table of contents (<contents>) element; followed by,<br>an optional safety summary (<safesum>) element.<br>which may occur once.<br><br>The front matter is part of the document (<docbaswgtcl>).<br><br>Source Paragraph: 3.3.1.1 - MIL-M-5920E<br><br>Optional Attribute(s):<br><br>See the %SECUR entry in the attribute description table for information on the following attributes: SECURITY. |

## Table A-II. Tag Description - Continued.

| Tag | Description |
|---|---|
| <usecharta<br>applicrefid = x<br>applictype = x<br>assocfig = x<br>assoctab = x<br>contype = x<br>delchlvl = x<br>esds = x<br>hcp = x<br>id = x<br>inschlvl = x<br>label = x<br>revchg = x<br>shortentry = x<br>skilltrk = x<br>texttype = x<br>tocentry = x<br>verified = x> | **How To Use Chart A**<br><br>Describes how to use chart a.<br><br>The how to use chart a element requires a starting tag (<usecharta>) but does not require an ending tag.<br><br>This element contains the following structure:<br>a group of elements consisting of:<br>one title (<title>) element; followed by,<br>a warning (<warning>) element which may occur zero, one, or multiple times; followed by,<br>a caution (<caution>) element which may occur zero, one, or multiple times; followed by,<br>a note (<note>) element which may occur zero, one, or multiple times; followed by,<br>a group of elements consisting of:<br>one paragraph (<para>) element; followed by,<br>a note (<note>) element which may occur zero, one, or multiple times;<br>which is optional; followed by,<br>a group of elements consisting of:<br>one first level procedural step (<step1>) element; followed by,<br>one or more first level procedural step (<step1>) elements;<br>which is optional; followed by,<br>a first level subordinate paragraph (<subpara1>) element which may occur zero, one, or multiple times;<br>which may occur once.<br><br>The element may also contain (at any point):<br>figure (<figure>) or,<br>table (<table>).<br><br>The how to use chart a is part of the sample basic weight checklists (<basintro>).<br><br>*Source Paragraph*: 3.3.1.2 - MIL-M-5920E<br><br>Optional Attribute(s):<br><br>See the %COMMATT1 entry in the attribute description table for information on the following attributes: TOCENTRY, SHORTENTRY, VERIFIED.<br><br>See the %BODYATT entry in the attribute description table for information on the following attributes: APPLICREFID, APPLICTYPE, ASSOCFIG, ASSOCTAB, CONTYPE, DELCHLVL, ESDS, HCP, ID, INSCHLVL, LABEL, REVCHG, SKILLTRK, TEXTTYPE. |

# LOADING DATA MANUAL
# DOCUMENT TYPE DEFINITION (DTD) SUBSET

## 10. SCOPE.

10.1 Scope. The markup tags described herein are based on rules outlined in the Information Processing, Text and Office Systems, Standard Generalized Markup Language (SGML) Standard, FIPS 152 (ISO 8879) and MIL-M-28001. The Document Type Definition (DTD) subset within this appendix provides the structure and content of documents prepared in accordance with this specification; the Tag Description table within this appendix provides a detailed discussion of each markup tag. This Appendix is a mandatory part of this specification. The information contained herein is intended for compliance.

## 20. APPLICABLE DOCUMENTS.

20.1 Government documents.

20.1.1 Specifications, standards, and handbooks. The following specifications, standards and handbooks form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those listed in the issue of the Department of Defense Index of Specifications and Standards (DODISS) and supplement thereto, cited in the solicitation (see 6.2).

SPECIFICATIONS

Military

| | |
|---|---|
| MIL-M-28001 | Markup Requirements and Generic Style Specification for Electronic Printed Output and Exchange of Text |

STANDARDS

Federal Information Processing Standards

| | |
|---|---|
| FIPS 152 | Standard Generalized Markup Language (SGML) |

(Unless otherwise indicated, copies of federal and military specifications, standards and handbooks are available from the

Standardization Documents Order Desk, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.)

(Copies of Federal Information Processing Standards (FIPS) are available to Department of Defense activities from the Standardization Documents Order Desk, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094. Others must request copies of FIPS from the National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161-2171.)

30. **DOCUMENT TYPE DEFINITION SUBSET.**

30.1 SGML document type definition subset. Data to be delivered digitally in accordance with this specification shall be SGML tagged using the DTD found in MIL-M-38784 as modified by the DTD subset in this section. The procedure for accomplishing this is found in MIL-M-28001 and FIPS 152 (ISO 8879).

30.2 Template document type for Loading Data Manual. The DTD subset for the Loading Data Manual DTD is as follows:

```
<!-- The following set of declarations may be referred to by
using a public entity as follows:

<!ENTITY % m5920e-b PUBLIC
     "-//USA-DOD//DTD MIL-M-5920E LD//EN" >
%m5920e-b;
-->

<!-- NOTE: In order to parse the following DTD subset alone,
append the following statement to the beginning of the file:

     <!DOCTYPE docloadata [

and the associated "]>" to the end of the file. -->

<!-- ENTITY DECLARATIONS -->

<!ENTITY % bodyele "(loadintro, loadata)" >

<!ENTITY % frnt "(idinfo, lep, verstat?, contents, illuslist?,
tablelist?, safesum?)" >

<!ENTITY % m38784C PUBLIC
     "-//USA-DOD//DTD MIL-M-38784C//EN" >
%m38784c;
```

```
<!ENTITY % content
"texttype NUMBER #IMPLIED
applictype IDREFS #IMPLIED
applicrefid IDREFS #IMPLIED
skilltrk NMTOKENS #IMPLIED
contype (desc | proc) #IMPLIED
assocfig IDREFS #IMPLIED
assoctab IDREFS #IMPLIED" >

<!ENTITY %yesorno "NUMBER" >

<!ENTITY % bodyatt
"id ID #IMPLIED
inschlvl NUTOKEN #IMPLIED
delchlvl NUTOKEN #IMPLIED
revchg %yesorno; '0'
hcp %yesorno; '0'
esds %yesorno; '0'
%content;" >

<!ENTITY % committ1
"tocentry %yesorno; '1'
shortentry %yesorno; '0'
verified %yesorno; '0'
%bodyatt;" >

<!ENTITY % committ2
"tocentry %yesorno; '1'
shortentry %yesorno; '0'
%bodyatt;" >


<!-- ELEMENT and ATTRIBUTE LIST DECLARATIONS -->

<!ELEMENT acrftdiag      - o  (%text;) >
<!ATTLIST acrftdiag      %committ1; >

<!ELEMENT acrftwghins      - o  (%parazero;) >
<!ATTLIST acrftwghins      %committ1; >

<!ELEMENT acrftwghreq      - o  (%parazero;) >
<!ATTLIST acrftwghreq      %committ1; >

<!ELEMENT charte       - o  (wghinst, acrftdiag, %text;)
                       +(warning | caution | note) >
<!ATTLIST charte       %committ1;>
```

```
<!ELEMENT docloadata      - -  (front, body, rear?)  +(pgbrk |
                          brk) >
<!ATTLIST docloadata      service %service; 'AF'
                          %secur;
                          %docatt; >

<!ELEMENT loadata         - -  (wgtbalreq, acrftwghreq, acrftwghins,
                          charte)  +(figure | table | foldout) >
<!ATTLIST loadata         %committ2; >

<!ELEMENT loadintro       - -  (%fpi;, wgtbalclass, usecharte,
                          (para0)?, tctolist)  +(figure | table) >
<!ATTLIST loadintro       %committ2; >

<!ELEMENT usecharte       - o  (%parazero;) >
<!ATTLIST usecharte       %committ1; >

<!ELEMENT wghinst         - o  (%text;) >
<!ATTLIST wghinst         %committ1; >

<!ELEMENT wgtbalclass     - o  (%parazero;) >
<!ATTLIST wgtbalclass     %committ1; >

<!ELEMENT wgtbalreq       - o  (%parazero;) >
<!ATTLIST wgtbalreq       %committ1; >
```

## 40. DETAILED TAG DESCRIPTION.

40.1 Attribution Description Table. The following table provides detailed descriptions of the attributes above.

## Table B-I. Attribute Description

| Attribute | Description |
|---|---|
| %bodyatt<br>applicrefid = x<br>applictype = x<br>assocfig = x<br>assoctab = x<br>contype = x<br>delchlvl = x<br>esds = x<br>hcp = x<br>id = x<br>inschlvl = x<br>revchg = x<br>skilltrk = x<br>texttype = x | Optional Attribute(s):<br><br>APPLICREFID: References unique identifier(s) assigned to applicability identifier(s) (<applicid id="xxx">). The value of this attribute consists of a list of references to names previously entered as unique identifiers of other elements. If no value is specified for this attribute, one may be implied by the system.<br><br>APPLICTYPE: This attribute references unique identifier(s) assigned to applicability definitions (<applicdef id="xxx">). Although it is possible to derive the applicability type from the applicability reference identifier, it may be explicitly stated with this attribute. The value of this attribute consists of a list of references to names previously entered as unique identifiers of other elements. If no value is specified for this attribute, one may be implied by the system.<br><br>ASSOCFIG: Identifies a figure associated with the element through the use of the "id" attribute in the figure (<figure>) element. The value of this attribute consists of a list of references to names previously entered as unique identifiers of other elements. If no value is specified for this attribute, one may be implied by the system.<br><br>ASSOCTAB: Identifies a table associated with the element through the use of the "id" attribute in the table (<table>) element. The value of this attribute consists of a list of references to names previously entered as unique identifiers of other elements. If no value is specified for this attribute, one may be implied by the system.<br><br>CONTYPE: Identifies the content type of the element. When used with steps, the implied value is procedural. When used with all other element types, the implied value is descriptive. The value of this attribute may be set to one of the following values: "desc" (Descriptive), "proc" (Procedural). If no value is specified for this attribute, one may be implied by the system.<br><br>DELCHLVL: Specifies the change levels at which data was deleted. An audit trail can be maintained by listing multiple change levels separated by spaces. The value of this attribute consists of a name where the first character is numeric. If no value is specified for this attribute, one may be implied by the system.<br><br>ESDS: Electrostatic Discharge Sensitive parts - If the value is set to zero, the element does not contain information involving ESDS parts, components or circuits. If any other value is given, the element does contain information involving ESDS items. The value of this attribute consists of a number. The default value of this attribute is "0".<br><br>HCP: Hardness Critical Process - If the value is set to zero, there is no hardness critical information. If any other value is given, the element contains hardness critical information. The value of this attribute consists of a number. The default value of this attribute is "0". |

## Table B-I. Attribute Description - Continued.

| Attribute | Description |
|---|---|
| %bodyatt - cont. | ID: An identifier of the element which is assigned at origination and which remains unchanged as the document is revised or updated even though the automatically assigned enumeration or manually assigned "labels" change. The value of the "id" is used making references to the element from other portions of a document. If no "id" is given, none will be maintained and the element can then not be cross-referenced to by means of an IDREF on another element or with a cross-reference (<xref>). The value of this attribute defines a unique identifier for the element. If no value is specified for this attribute, one may be implied by the system.<br><br>INSCHLVL: Specifies the change levels at which data was inserted. An audit trail can be maintained by listing multiple change levels separated by spaces. The value of this attribute consists of a name where the first character is numeric. If no value is specified for this attribute, one may be implied by the system.<br><br>REVCHG: This attribute is used when the document has undergone a revision and information has changed between the revision and the last change. This attribute is set to a nonero value to indicate that the information has changed and thereby requires a change mark. The docstat attribute must be set to "revision" for this attribute to have any meaning. When docstat has been assigned a value other than "revision," revchg will be ignored.<br><br>SKILLTRK: Designates the skill level of the user at which the information in this element is aimed. The value of this attribute consists of a list of names where the first character of each name is alphanumeric. If no value is specified for this attribute, one may be implied by the system.<br><br>TEXTTYPE: Specifies a code which further identifies the element. The value of this attribute consists of a number. If no value is specified for this attribute, one may be implied by the system. |
| %commatt1<br>shortentry = x<br>tocentry = x<br>verified = x | Optional Attribute(s):<br><br>SHORTENTRY: Specifies that the shortened title (<shorttitle>) is used for this element. If the value is set to zero, the short title is not used. If any other value is given, the short title will be used. The value of this attribute consists of a number. The default value of this attribute is "0".<br><br>TOCENTRY: Specifies whether the element will be included in the table of contents for the document. If the value is set to zero, the element will not be included in the table of contents. If any other value is given, the element will be included. The value of this attribute consists of a number. The default value of this attribute is "1". |

## Table B-I. Attribute Description - Continued.

| Attribute | Description |
|---|---|
| %committ1 - cont. | VERIFIED: Specifies the verification status of the information. This information is used to build the verification status (<verstat>) page. If the value is set to zero, the information has not been verified. If any other value is given, the information has been verified. The value of this attribute consists of a number. The default value of this attribute is "0". |
| %committ2<br>shortentry = x<br>tocentry = x | Optional Attribute(s):<br>SHORTENTRY: Specifies that the shortened title (<shorttitle>) is used for this element. If the value is set to zero, the short title is not used. If any other value is given, the short title will be used. The value of this attribute consists of a number. The default value of this attribute is "0".<br>TOCENTRY: Specifies whether the element will be included in the table of contents for the document. If the value is set to zero, the element will not be included in the table of contents. If any other value is given, the element will be included. The value of this attribute consists of a number. The default value of this attribute is "1". |
| %docatt<br>docid = x<br>docstat = x<br>mantype = x | Required Attribute(s):<br>DOCID: Unique identifier of the document, which can be used to perform interdocument cross references. However, it should be noted that this is a particular of the application and is not an SGML contruct that is validated by the parser. The value of this attribute consists of character data.<br>Optional Attribute(s):<br>DOCSTAT: Specifies the current status of the document publication. The value of this attribute may be set to one of the following values: "revision", "change", "prelim" (Preliminary), "draft", "formal". The default value of this attribute is "prelim".<br>MANTYPE: Designates the manual type of the document. The value of this attribute may be set to one of the following values: "standard", "card", "decal". The default value of this attribute is "standard". |
| %secur<br>security = x | Optional Attribute(s):<br>SECURITY: Specifies the level of security of the element. The value of this attribute may be set to one of the following values: "u" (Unclassified), "c" (Confidential), "s" (Secret). The default value of this attribute is "u". |

40.2 Tag Description Table. The following table provides detailed descriptions of the tags above. It provides the element tagging structure, full element name, tag minimization requirements, element structure, referencing elements, source paragraph, and attribute descriptions.

## Table B-II. Tag Description

| Tag | Description |
|---|---|
| <acrftdiag<br>applicrefid = x<br>applictype = x<br>assocfig = x<br>assoctab = x<br>contype = x<br>delchlvl = x<br>esds = x<br>hcp = x<br>id = x<br>inschlvl = x<br>label = x<br>revchg = x<br>shortentry = x<br>skilltrk = x<br>texttype = x<br>tocentry = x<br>verified = x> | **Aircraft Diagram**<br>Identifies the aircraft diagram.<br>The aircraft diagram element requires a starting tag (<acrftdiag>) but does not require an ending tag.<br>If the value of the "math" entity is set to "ignore", this element contains the following structure:<br>a group of elements consisting of:<br>parsed character data; or,<br>one footnote reference (<ftnref>) element; or,<br>one cross reference (<xref>) element; or,<br>one index entry flag (<indxflag>) element; or,<br>one verbatim text (<verbatim>) element; or,<br>one emergency information (<emergency>) element; or,<br>one emphasis (<emphasis>) element; or,<br>one applicability (<applicabil>) element; or,<br>one graphic (<graphic>) element; or,<br>one subscript (<subscrpt>) element; or,<br>one supscript (<supscrpt>) element; or,<br>one external cross reference (<extref>) element; or,<br>one data identification (<dataiden>) element;<br>which may occur one or more times.<br>If the value of the "math" entity is set to "include", this element contains the following structure:<br>a group of elements consisting of:<br>parsed character data; or,<br>one footnote reference (<ftnref>) element; or,<br>one cross reference (<xref>) element; or,<br>one index entry flag (<indxflag>) element; or,<br>one verbatim text (<verbatim>) element; or,<br>one emergency information (<emergency>) element; or,<br>one emphasis (<emphasis>) element; or,<br>one applicability (<applicabil>) element; or,<br>one graphic (<graphic>) element; or,<br>one subscript (<subscrpt>) element; or,<br>one supscript (<supscrpt>) element; or,<br>one external cross reference (<extref>) element; or,<br>one data identification (<dataiden>) element; or,<br>one formula reference (<dfref>) element; or,<br>one inline formula (<f>) element;<br>which may occur one or more times.<br>The aircraft diagram is part of the chart e (<charte>).<br>Source Paragraph: 3.4.1.3 - MIL-M-5920E |

## Table B-II. Tag Description - Continued.

| Tag | Description |
|---|---|
| <acrftdiag> - cont. | Optional Attribute(s):<br><br>See the %COMMATT1 entry in the attribute description table for information on the following attributes: TOCENTRY, SHORTENTRY, VERIFIED.<br><br>See the %BODYATT entry in the attribute description table for information on the following attributes: APPLICREFID, APPLICTYPE, ASSOCFIG, ASSOCTAB, CONTYPE, DELCHLVL, ESDS, HCP, ID, INSCHLVL, LABEL, REVCHG, SKILLTRK, TEXTTYPE. |
| <acrftwghins<br>applicrefid = x<br>applictype = x<br>assocfig = x<br>assoctab = x<br>contype = x<br>delchlvl = x<br>esds = x<br>hcp = x<br>id = x<br>inschlvl = x<br>label = x<br>revchg = x<br>shortentry = x<br>skilltrk = x<br>texttype = x<br>tocentry = x<br>verified = x> | **Aircraft Weighing Instructions**<br><br>Identifies the aircraft weighing instructions.<br><br>The aircraft weighing instructions element requires a starting tag (<acrftwghins>) but does not require an ending tag.<br><br>This element contains the following structure:<br>a group of elements consisting of:<br>one title (<title>) element; followed by,<br>a warning (<warning>) element which may occur zero, one, or multiple times; followed by,<br>a caution (<caution>) element which may occur zero, one, or multiple times; followed by,<br>a note (<note>) element which may occur zero, one, or multiple times; followed by,<br>a group of elements consisting of:<br>one paragraph (<para>) element; followed by,<br>a note (<note>) element which may occur zero, one, or multiple times; which is optional; followed by,<br>a group of elements consisting of:<br>one first level procedural step (<step1>) element; followed by,<br>one or more first level procedural step (<step1>) elements; which is optional; followed by,<br>a first level subordinate paragraph (<subpara1>) element which may occur zero, one, or multiple times;<br>which may occur once.<br><br>The aircraft weighing instructions is part of the loading data (<loadata>).<br><br>Source Paragraph: 3.4.1.3 - MIL-M-5920E<br><br>Optional Attribute(s):<br><br>See the %COMMATT1 entry in the attribute description table for information on the following attributes: TOCENTRY, SHORTENTRY, VERIFIED. |

## Table B-II. Tag Description - Continued.

| Tag | Description |
|---|---|
| <acrftwghins> - cont. | See the %BODYATT entry in the attribute description table for information on the following attributes: APPLICREFID, APPLICTYPE, ASSOCFIG, ASSOCTAB, CONTYPE, DELCHLVL, ESDS, HCP, ID, INSCHLVL, LABEL, REVCHG, SKILLTRK, TEXTTYPE. |
| <acrftwghreq<br>applicrefid = x<br>applictype = x<br>assocfig = x<br>assoctab = x<br>contype = x<br>delchlvl = x<br>esds = x<br>hcp = x<br>id = x<br>inschlvl = x<br>label = x<br>shortentry = x<br>skilltrk = x<br>texttype = x<br>tocentry = x<br>verified = x> | **Aircraft Weighing Requirements**<br>Identifies the aircraft weighing requirements.<br>The aircraft weighing requirements element requires a starting tag (<acrftwghreq>) but does not require an ending tag.<br>This element contains the following structure:<br>a group of elements consisting of:<br>one title (<title>) element; followed by,<br>a warning (<warning>) element which may occur zero, one, or multiple times; followed by,<br>a caution (<caution>) element which may occur zero, one, or multiple times; followed by,<br>a note (<note>) element which may occur zero, one, or multiple times; followed by,<br>a group of elements consisting of:<br>one paragraph (<para>) element; followed by,<br>a note (<note>) element which may occur zero, one, or multiple times; which is optional; followed by,<br>a group of elements consisting of:<br>one first level procedural step (<step1>) element; followed by,<br>one or more first level procedural step (<step1>) elements;<br>which is optional; followed by,<br>a first level subordinate paragraph (<subpara1>) element which may occur zero, one, or multiple times;<br>which may occur once.<br>The aircraft weighing requirements is part of the loading data (<loadata>).<br>Source Paragraph: 3.4.1.3 - MIL-M-5920E<br>Optional Attribute(s):<br>See the %COMMATT1 entry in the attribute description table for information on the following attributes: TOCENTRY, SHORTENTRY, VERIFIED.<br>See the %BODYATT entry in the attribute description table for information on the following attributes: APPLICREFID, APPLICTYPE, ASSOCFIG, ASSOCTAB, CONTYPE, DELCHLVL, ESDS, HCP, ID, INSCHLVL, LABEL, REVCHG, SKILLTRK, TEXTTYPE. |
| <body<br>security = x> | **Body Matter**<br>Identifies the body of the document. |

## Table B-II. Tag Description - Continued.

| Tag | Description |
|---|---|
| <body> - cont. | The body matter element requires a starting tag (<body>) and an ending tag (</body>).<br>This element contains the following structure:<br>a group of elements consisting of:<br>one loading data introduction (<loadintro>) element; followed by,<br>one loading data (<loadata>) element.<br>which may occur once.<br><br>The body matter element may also contain (at any point):<br>footnote (<ftnote>).<br>The body matter is part of the document (<docbaswgtcl>).<br>Source Paragraph: 3.4.1.2 - 3.4.1.3 - MIL-M-5920E<br>Optional Attribute(s):<br>See the %SECUR entry in the attribute description table for information on the following attributes: SECURITY. |
| <charte<br>applicrefid = x<br>applictype = x<br>assocfig = x<br>assoctab = x<br>contype = x<br>delchlvl = x<br>esds = x<br>hcp = x<br>id = x<br>inschlvl = x<br>label = x<br>shortentry = x<br>skilltrk = x<br>texttype = x<br>tocentry = x<br>verified = x> | Chart E<br>Identifies chart e.<br>The chart e element requires a starting tag (<charte>) but does not require an ending tag.<br>If the value of the "math" entity is set to "ignore", this element contains the following structure:<br>one weighing instructions (<wghinst>) element; followed by,<br>one aircraft diagram (<acrftdiag>) element; followed by,<br>a group of elements consisting of:<br>parsed character data; or,<br>one footnote reference (<ftnref>) element; or,<br>one cross reference (<xref>) element; or,<br>one index entry flag (<indxflag>) element; or,<br>one verbatim text (<verbatim>) element; or,<br>one emergency information (<emergency>) element; or,<br>one emphasis (<emphasis>) element; or,<br>one applicability (<applicabil>) element; or,<br>one graphic (<graphic>) element; or,<br>one subscript (<subscrpt>) element; or,<br>one supscript (<supscrpt>) element; or,<br>one external cross reference (<extref>) element; or,<br>one data identification (<dataiden>) element;<br>which may occur one or more times.<br><br>If the value of the "math" entity is set to "include", this element contains the following structure: |

## Table B-II. Tag Description - Continued.

| Tag | Description |
|---|---|
| <charte> - cont. | one weighing instructions (<wghinst>) element; followed by,<br>one aircraft diagram (<acrftdiag>) element; followed by,<br>a group of elements consisting of:<br>parsed character data; or,<br>one footnote reference (<ftnref>) element; or,<br>one cross reference (<xref>) element; or,<br>one index entry flag (<indxflag>) element; or,<br>one verbatim text (<verbatim>) element; or,<br>one emergency information (<emergency>) element; or,<br>one emphasis (<emphasis>) element; or,<br>one applicability (<applicabil>) element; or,<br>one graphic (<graphic>) element; or,<br>one subscript (<subscrpt>) element; or,<br>one supscript (<supscrpt>) element; or,<br>one external cross reference (<extref>) element; or,<br>one data identification (<dataiden>) element; or,<br>one formula reference (<dfref>) element; or,<br>one inline formula (<f>) element;<br>which may occur one or more times.<br><br>The chart e element may also contain (at any point):<br>warning (<warning>) or,<br>caution (<caution>) or,<br>note (<note>).<br><br>The chart e is part of the loading data (<loadata>).<br><br>Source Paragraph: 3.4.1.3 - MIL-M-5920E<br><br>**Optional Attribute(s):**<br><br>See the %COMMATT1 entry in the attribute description table for information on the following attributes: TOCENTRY, SHORTENTRY, VERIFIED.<br><br>See the %BODYATT entry in the attribute description table for information on the following attributes: APPLICREFID, APPLICTYPE, ASSOCFIG, ASSOCTAB, CONTYPE, DELCHLVL, ESDS, HCP, ID, INSCHLVL, LABEL, REVCHG, SKILLTRK, TEXTTYPE. |
| <docloadata<br>docid = x<br>docstat = x<br>mantype = x<br>service = x> | Document<br><br>Identifies the beginning of the document.<br><br>The document element requires a starting tag (<docloadata>) and an ending tag (</docloadata>).<br><br>This element contains the following structure:<br>one front matter (<front>) element; followed by,<br>one body matter (<body>) element; followed by, |

## Table B-II. Tag Description - Continued.

| Tag | Description |
|---|---|
| <docloadata> - cont | an optional rear matter (<rear>) element.<br><br>The document is not part of any other element.<br><br>Source Paragraph: 3.4.1.3 - MIL-M-5920E<br><br>**Required Attribute(s):**<br><br>See the %DOCATT entry in the attribute description table for information on the following attributes: DOCID, DOCSTAT, MANTYPE.<br><br>**Optional Attribute(s):**<br><br>SERVICE: Specifies the service which is primarily responsible for the document. The value of this attribute may be set to one of the following values: "AF" (Air Force), "NAVY", "ARMY", "MC" (Marine Corps), "DLA" (Defense Logistics Agency), "CG" (Coast Guard). The default value of this attribute is "AF".<br><br>See the %SECUR entry in the attribute description table for information on the following attributes: SECURITY. |
| <front<br>security = x> | **Front Matter**<br><br>Identifies the front matter.<br><br>The front matter element requires a starting tag (<front>) and an ending tag (</front>).<br><br>This element contains the following structure:<br>a group of elements consisting of:<br>one identification information (<idinfo>) element; followed by,<br>one list of effective pages (<lep>) element; followed by,<br>an optional verification status pages (<verstat>) element; followed by,<br>one table of contents (<contents>) element; followed by,<br>one optional list of illustrations (<illuslist>) element; followed by,<br>one optional list of tables (<tablelist)> element; followed by,<br>an optional safety summary (<safesum>) element.<br>which may occur once.<br><br>The front matter is part of the document (<docloadata>).<br><br>Source Paragraph: 3.4.1.1 - MIL-M-5920E<br><br>**Optional Attribute(s):**<br><br>See the %SECUR entry in the attribute description table for information on the following attributes: SECURITY. |

## Table B-II. Tag Description - Continued.

| Tag | Description |
|---|---|
| <loadata<br>applicrefid = x<br>applictype = x<br>assocfig = x<br>assoctab = x<br>contype = x<br>delchlvl = x<br>esds = x<br>hcp = x<br>id = x<br>inschlvl = x<br>label = x<br>shortentry = x<br>skilltrk = x<br>texttype = x<br>tocentry = x | **Loading Data**<br>Identifies the loading data section.<br>The loading data element requires a starting tag (<loadata>) and an ending tag (</loadata>).<br>This element contains the following structure:<br>one weight and balance requirements (<wgtbalreq>) element; followed by,<br>one aircraft weighing requirements (<acrftwghreq>) element; followed by,<br>one aircraft weighing instructions (<acrftwghins>) element; followed by,<br>one chart e (<charte>) element.<br>The loading data element may also contain (at any point):<br>figure (<figure>) or,<br>table (<table>) or,<br>foldout (<foldout>).<br>The loading data is part of the body matter (<body>).<br>Source Paragraph: 3.4.1.3 - MIL-M-5920E<br>Optional Attribute(s):<br>See the %COMMATT2 entry in the attribute description table for information on the following attributes: TOCENTRY, SHORTENTRY.<br>See the %BODYATT entry in the attribute description table for information on the following attributes: APPLICREFID, APPLICTYPE, ASSOCFIG, ASSOCTAB, CONTYPE, DELCHLVL, ESDS, HCP, ID, INSCHLVL, LABEL, REVCHG, SKILLTRK, TEXTTYPE. |
| <loadintro<br>applicrefid = x<br>applictype = x<br>assocfig = x<br>assoctab = x<br>contype = x<br>delchlvl = x<br>esds = x<br>hcp = x<br>id = x<br>inschlvl = x<br>label = x<br>shortentry = x<br>skilltrk = x<br>texttype = x<br>tocentry = x | **Loading Data Introduction**<br>Identifies the introductory material of the document.<br>The loading data introduction element requires a starting tag (<loadintro>) and an ending tag (</loadintro>).<br>This element contains the following structure:<br>one paragraph element; followed by,<br>one primary paragraph (<para0>) element; or,<br>a group of elements consisting of:<br>one sequential list (<seqlist>) element; or,<br>one random list (<randlist>) element; or,<br>one definition list (<defiist>) element;<br>which may occur once; or,<br>one symbol section (<symsect>) element; or,<br>one abbreviation section (<abbrsect>) element; or,<br>a group of elements consisting of:<br>an optional warning (<warning>) element; followed by, |

## Table B-II. Tag Description - Continued.

| Tag | Description |
|---|---|
| <loadintro> - cont. | an optional caution (<caution>) element; followed by,<br>an optional note (<note>) element;<br>which may occur zero, one, or multiple times; followed by,<br>an optional international standard information (<internatlstd>) element; followed by,<br>an optional list of related publications (<lrp>) element; followed by,<br>an optional list of tcto's (<tctolist>) element; followed by,<br>an optional record of applicable technical directives (<ratd>) element; followed by,<br>an optional technical manual improvement report (<tmimprep>) element; followed by,<br>one weight and balance classification (<wgtbalclass>) element; followed by,<br>one how to use chart e (<usecharte>) element; followed by,<br>one optional primary paragraph (<para0>) element; followed by,<br>one list of tcto's (<tctolist>) element.<br><br>The loading data introduction element may also contain (at any point):<br>figure (<figure>) or,<br>table (<table>) .<br><br>The loading data introduction is part of the body matter (<body>).<br><br>Source Paragraph: 3.4.1.2 - MIL-M-5920E<br><br>Optional Attribute(s):<br><br>See the %COMMATT2 entry in the attribute description table for information on the following attributes: TOCENTRY, SHORTENTRY.<br><br>See the %BODYATT entry in the attribute description table for information on the following attributes: APPLICREFID, APPLICTYPE, ASSOCFIG, ASSOCTAB, CONTYPE, DELCHLVL, ESDS, HCP, ID, INSCHLVL, LABEL, REVCHG, SKILLTRK, TEXTTYPE. |

## Table B-II. Tag Description - Continued.

| Tag | Description |
|---|---|
| <usecharte<br>applicrefid = x<br>applictype = x<br>assocfig = x<br>assoctab = x<br>contype = x<br>delchlvl = x<br>esds = x<br>hcp = x<br>id = x<br>inschlvl = x<br>label = x<br>shortentry = x<br>skilltrk = x<br>texttype = x<br>tocentry = x<br>verified = x> | How to Use Chart E<br><br>Gives instructions on the use of chart e.<br><br>The how to use chart e element requires a starting tag (<usecharte>) but does not require an ending tag.<br><br>This element contains the following structure:<br>a group of elements consisting of:<br>one title (<title>) element; followed by,<br>a warning (<warning>) element which may occur zero, one, or multiple times; followed by,<br>a caution (<caution>) element which may occur zero, one, or multiple times; followed by,<br>a note (<note>) element which may occur zero, one, or multiple times; followed by,<br>a group of elements consisting of:<br>one paragraph (<para>) element; followed by,<br>a note (<note>) element which may occur zero, one, or multiple times;<br>which is optional; followed by,<br>a group of elements consisting of:<br>one first level procedural step (<step1>) element; followed by,<br>one or more first level procedural step (<step1>) elements;<br>which is optional; followed by,<br>a first level subordinate paragraph (<subpara1>) element which may occur zero, one, or multiple times;<br>which may occur once.<br><br>The how to use chart e is part of the loadata introduction (<loadintro>).<br><br>Source Paragraph: 3.4.1.2 - MIL-M-5920E<br><br>Optional Attribute(s):<br><br>See the %COMMATT1 entry in the attribute description table for information on the following attributes: TOCENTRY, SHORTENTRY, VERIFIED.<br><br>See the %BODYATT entry in the attribute description table for information on the following attributes: APPLICREFID, APPLICTYPE, ASSOCFIG, ASSOCTAB, CONTYPE, DELCHLVL, ESDS, HCP, ID, INSCHLVL, LABEL, REVCHG, SKILLTRK, TEXTTYPE. |

## Table B-II. Tag Description - Continued.

| Tag | Description |
|---|---|
| <wghinst<br>applicrefid = x<br>applictype = x<br>assocfig = x<br>assoctab = x<br>contype = x<br>delchlvl = x<br>esds = x<br>hcp = x<br>id = x<br>inschlvl = x<br>label = x<br>shortentry = x<br>skilltrk = x<br>texttype = x<br>tocentry = x<br>verified = x> | **Weighing Instructions**<br><br>Identifies the weighing instructions.<br><br>The weighing instructions element requires a starting tag (<wghinst>) but does not require an ending tag.<br><br>If the value of the "math" entity is set to "ignore", this element contains the following structure:<br>a group of elements consisting of:<br>parsed character data; or,<br>one footnote reference (<ftnref>) element; or,<br>one cross reference (<xref>) element; or,<br>one index entry flag (<indxflag>) element; or,<br>one verbatim text (<verbatim>) element; or,<br>one emergency information (<emergency>) element; or,<br>one emphasis (<emphasis>) element; or,<br>one applicability (<applicabil>) element; or,<br>one graphic (<graphic>) element; or,<br>one subscript (<subscrpt>) element; or,<br>one supscript (<supscrpt>) element; or,<br>one external cross reference (<extref>) element; or,<br>one data identification (<dataiden>) element;<br>which may occur one or more times.<br><br>If the value of the "math" entity is set to "include", this element contains the following structure:<br>a group of elements consisting of:<br>parsed character data; or,<br>one footnote reference (<ftnref>) element; or,<br>one cross reference (<xref>) element; or,<br>one index entry flag (<indxflag>) element; or,<br>one verbatim text (<verbatim>) element; or,<br>one emergency information (<emergency>) element; or,<br>one emphasis (<emphasis>) element; or,<br>one applicability (<applicabil>) element; or,<br>one graphic (<graphic>) element; or,<br>one subscript (<subscrpt>) element; or,<br>one supscript (<supscrpt>) element; or,<br>one external cross reference (<extref>) element; or,<br>one data identification (<dataiden>) element; or,<br>one formula reference (<dfref>) element; or,<br>one inline formula (<f>) element;<br>which may occur one or more times.<br><br>The weighing instructions is part of the chart e (<charte>). |

## Table B-II. Tag Description - Continued.

| Tag | Description |
|---|---|
| <wghinst> - cont. | Source Paragraph: 3.4.1.3 - MIL-M-5920E<br><br>Optional Attribute(s):<br><br>See the %COMMATT1 entry in the attribute description table for information on the following attributes: TOCENTRY, SHORTENTRY, VERIFIED.<br><br>See the %BODYATT entry in the attribute description table for information on the following attributes: APPLICREFID, APPLICTYPE, ASSOCFIG, ASSOCTAB, CONTYPE, DELCHLVL, ESDS, HCP, ID, INSCHLVL, LABEL, REVCHG, SKILLTRK, TEXTTYPE. |
| <wgtbalclass<br>applicrefid = x<br>applictype = x<br>assocfig = x<br>assoctab = x<br>contype = x<br>delchlvl = x<br>esds = x<br>hcp = x<br>id = x<br>inschlvl = x<br>label = x<br>shortentry = x<br>skilltrk = x<br>texttype = x<br>tocentry = x<br>verified = x> | **Weight and Balance Classification**<br><br>Identifies the weight and balance classification.<br><br>The weight and balance classification element requires a starting tag (<wgtbalclass>) but does not require an ending tag.<br><br>This element contains the following structure:<br>a group of elements consisting of:<br>one title (<title>) element; followed by,<br>a warning (<warning>) element which may occur zero, one, or multiple times; followed by,<br>a caution (<caution>) element which may occur zero, one, or multiple times; followed by,<br>a note (<note>) element which may occur zero, one, or multiple times; followed by,<br>a group of elements consisting of:<br>one paragraph (<para>) element; followed by,<br>a note (<note>) element which may occur zero, one, or multiple times; which is optional; followed by,<br>a group of elements consisting of:<br>one first level procedural step (<step1>) element; followed by,<br>one or more first level procedural step (<step1>) elements; which is optional; followed by,<br>a first level subordinate paragraph (<subpara1>) element which may occur zero, one, or multiple times;<br>which may occur once.<br><br>The weight and balance classification is part of the loadata introduction (<loadintro>).<br><br>Source Paragraph: 3.4.1.2 - MIL-M-5920E<br><br>Optional Attribute(s):<br><br>See the %COMMATT1 entry in the attribute description table for information on the following attributes: TOCENTRY, SHORTENTRY, VERIFIED. |

## Table B-II. Tag Description - Continued.

| Tag | Description |
|---|---|
| <wgtbalclass> - cont. | See the %BODYATT entry in the attribute description table for information on the following attributes: APPLICREFID, APPLICTYPE, ASSOCFIG, ASSOCTAB, CONTYPE, DELCHLVL, ESDS, HCP, ID, INSCHLVL, LABEL, REVCHG, SKILLTRK, TEXTTYPE. |
| <wgtbalreq<br>applicrefid = x<br>applictype = x<br>assocfig = x<br>assoctab = x<br>contype = x<br>delchlvl = x<br>esds = x<br>hcp = x<br>id = x<br>inschlvl = x<br>label = x<br>shortentry = x<br>skilltrk = x<br>texttype = x<br>tocentry = x<br>verified = x> | **Weight and Balance Requirements**<br><br>Identifies the weight and balance requirements.<br><br>The weight and balance requirements element requires a starting tag (<wgtbalreq>) but does not require an ending tag.<br><br>This element contains the following structure:<br>a group of elements consisting of:<br>one title (<title>) element; followed by,<br>a warning (<warning>) element which may occur zero, one, or multiple times; followed by,<br>a caution (<caution>) element which may occur zero, one, or multiple times; followed by,<br>a note (<note>) element which may occur zero, one, or multiple times; followed by,<br>a group of elements consisting of:<br>one paragraph (<para>) element; followed by,<br>a note (<note>) element which may occur zero, one, or multiple times; which is optional; followed by,<br>a group of elements consisting of:<br>one first level procedural step (<step1>) element; followed by,<br>one or more first level procedural step (<step1>) elements; which is optional; followed by,<br>a first level subordinate paragraph (<subpara1>) element which may occur zero, one, or multiple times;<br>which may occur once.<br><br>The weight and balance requirements is part of the loading data (<loadata>).<br><br>Source Paragraph: 3.4.1.2 - MIL-M-5920E<br><br>Optional Attribute(s):<br><br>See the %COMMATT1 entry in the attribute description table for information on the following attributes: TOCENTRY, SHORTENTRY, VERIFIED.<br><br>See the %BODYATT entry in the attribute description table for information on the following attributes: APPLICREFID, APPLICTYPE, ASSOCFIG, ASSOCTAB, CONTYPE, DELCHLVL, ESDS, HCP, ID, INSCHLVL, LABEL, REVCHG, SKILLTRK, TEXTTYPE. |

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| I RECOMMEND A CHANGE: | 1. DOCUMENT NUMBER | 2. DOCUMENT DATE (YYMMDD) |
|---|---|---|
| | MIL-M-5920 | 6 July 1993 |

3. DOCUMENT TITLE

Manuals, Technical: Sample Basic Weight Checklists and Loading Data

4. NATURE OF CHANGE *(Identify paragraph number and include proposed rewrite, if possible. Attach extra sheets as needed.)*

5. REASON FOR RECOMMENDATION

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