

**NOT MEASUREMENT  
SENSITIVE**

**MIL-M-63012A  
26 July 1994  
SUPERSEDING  
MIL-M-63012  
1 November 1975**

**MILITARY SPECIFICATION  
MANUALS, TECHNICAL:  
DEPOT MAINTENANCE WORK REQUIREMENTS (DMWR)  
FOR MAINTENANCE/DEMILITARIZATION OF  
CONVENTIONAL AND CHEMICAL AMMUNITION**

**This specification is approved for use by all Department of the Army and Department of the Navy and is available for use by all Departments and Agencies of the Department of Defense.**

**1. SCOPE.**

1.1 Scope. This specification contains requirements for preparation of U.S. Army Industrial Operations Command, U.S. Army Chemical and Biological Defense Command, U.S. Army Armament Research, Development and Engineering Center, and U.S. Naval Sea Systems Command, Naval Air Systems Command DMWRs, Technical Manuals (TM) and other process documents that include the required elements of this specification for the Maintenance /Demilitarization of Conventional and Chemical Ammunition, hereafter referred to as "ammunition". For the purpose of this specification, the generic term DMWR is used for consistency, and includes DMWRs, TMs and process documents.

1.2 Figures. The figures used in this specifications are examples only. The text of this document takes precedence over the examples.

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: the USAMC Logistics Support Activity, Logistics Support Activity, ATTN: AMXLS-APP, Redstone Arsenal, AL 35898-7466, by using the self- addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

**AMSC A7037**

**AREA TMSS**

**DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.**

## MIL-M-63012A

1.3 Applicability. DMWR publications contain the information needed by government personnel to perform their authorized maintenance tasks. Some requirements in this specification are not applicable to all ammunition or all situations.

## 2. APPLICABLE DOCUMENTS.

2.1. Government documents, specifications, and standards. The following specifications and standards form a part of this specification to the extent specified herein. Unless otherwise specified, the issues of these documents shall be those listed in the issues of the Department of Defense Index of Specifications

solicitation. (See para 6.2.)

### SPECIFICATIONS

#### MILITARY

MIL-M-38784      Manuals, Technical: General Style and Format Requirements

### STANDARDS

MIL-STD-12      Abbreviations for use on Drawings, Specifications, standards, and in Technical Documents

MIL-STD-444      Nomenclature and Definitions in the Ammunition Area

MIL-STD-882      System Safety Program Requirements

MIL-STD-1806      Marking Technical Data Prepared by or for the DOD

2.2 Other publications. The following document(s) form a part of this specification to the extent specified herein. Unless otherwise specified, issue of the documents which are DOD adopted shall be those listed in the issue of the DODISS specified in the solicitation. Unless otherwise specified, the issues of documents not listed in the DODISS shall be the issue of the nongovernment document(s) which are current on the date of the solicitation.

American Society for Testing and Materials (ASTM)

ASTM D 3951      Standard Practice for Commercial  
(DOD adopted)      Packaging

## MIL-M-63012A

(DOD activities can obtain copies from the standardization Documents Order Desk, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19120-5099. Other government activities, contractors, and private concerns must obtain copies from the American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103.)

2.3 Order of precedence. In the event of a conflict between the text of this specification and the references cited herein, the text of this specification shall take precedence. Nothing in this specification, however, shall supersede applicable laws and regulations unless a specific exemption has been obtained.

### 3. REQUIREMENTS

3.1 General. This specification shall be used to develop DMWRs for the maintenance and demilitarization of ammunition.

3.1.1 Style and format. Unless otherwise specified by the contracting activity, the general style and format of the DMWR shall be IAW MIL-M-38784.

3.1.2 National stock numbers (NSN), part numbers and nomenclature. The NSNs, part numbers, and Commercial and Government Entity Code (CAGEC) shall not be used in the narrative portion unless they are essential for identification of the item. Only approved nomenclature shall be used in the DMWR. The nomenclature shall be IAW MIL-STD-444. The use of names and nomenclature shall be consistent throughout the DMWR.

3.1.3 Abbreviations and acronyms. Abbreviations shall be IAW MIL-STD-12. The first use of the abbreviation or acronym shall have the word or words spelled out completely. The abbreviation or acronym shall appear in parenthesis immediately after the word(s).

3.1.4 Illustrations. Unless otherwise specified, only line drawing illustrations shall be used in the DMWR. Engineering drawings shall not be used, unless approved. Illustration views shall be presented as the DMWR user would view the item in the performance of the associated task. Locator numbers used on illustrations shall be numbered consecutively in a clockwise direction, beginning with the lowest number at the 11 o'clock position.

## MIL-M-63012A

3.1.5 References. Reference to other documents and information within the DMWR shall be held to a minimum. Based upon economic consideration, required data can be duplicated instead of referenced. Reference shall be made to other documents only when they are normally available to the user. If a reference to another document is necessary, the reference shall include the document name or publication number. References made to other documents or other parts of the DMWR shall include only specific and necessary location data such as chapter, page, paragraph, table, or figure number.

3.1.6 Warnings, cautions, and notes. Warnings, cautions, and notes shall be used IAW MIL-M-38784. A warning shall precede the text for a procedure where injury or death may occur to the person doing the procedure, not the person who will use the equipment when it is issued. Cautions shall precede the text for a procedure where damage to the equipment could occur. Notes shall precede the text and are used to highlight an essential operating or maintenance procedure, condition, or statement. When warnings, cautions, or notes occur for the same text, the warnings shall appear first, cautions second, and notes last.

3.1.7 Hazardous materials warnings and icons. Whenever a warning is presented as an icon or a combination of icons, this format shall be used. Icons used shall either be on the approved list in appendix A of this specification, or shall be added or changed as specified and approved by the contracting activity. Each hazard icon used shall be defined in the warning summary at the front of the DMWR.

3.2 The DMWR shall contain the following divisions, as applicable:

- a. Front Matter
- b. Chapter 1. Introduction
- c. Chapter 2. Operational Requirements
- d. Chapter 3. Quality Acceptance Requirements
- e. APPENDIX A. References
- f. APPENDIX B. Consumable Materials.
- g. APPENDIX C. Equipment and Special Facilities
- h. APPENDIX D. Tabulated Data, Military Specifications, and Drawings
- i. APPENDIX E. Approved Intraplant Transfer Equipment
- j. APPENDIX F. Pentachlorophenol (PENTA)-Treated Packing Materials
- k. APPENDIX G. Environmental Requirements
- l. APPENDIX H. Hazard Analysis
- m. Other appendixes.

(When any of the above divisions, or any portion thereof

## MIL-M-63012A

specified herein is not applicable to a specific DMWR, the chapter, section, or paragraph number, and title shall appear in sequence and be followed by the statement: "NOT APPLICABLE".)

3.3 Front matter. The front portion of a DMWR shall consist of the following:

3.3.1 Front cover. The front cover shall have a publication number and a title which identifies the ammunition covered in the DMWR by official nomenclature, NSN, End Item Code (EIC), part number, and CAGEC. All related items will be listed on the cover by nomenclature, NSN, and EIC, covered by the DMWR which, when the work is complete, may be turned in to supply separately. See figure 1 for an example of an Army and Navy DMWR cover.

3.3.1.1 Distribution limitation statement, destruction notice, and export warning notice. The applicable distribution limitation statement, destruction notice, and export control warning notice (provided by the contracting activity) shall be prepared IAW MIL-STD-1806 or MIL-M-38784:

3.3.1.2 Supersession notice. If the DMWR supersedes another DMWR or publication, a supersession notice, provided by the contracting activity, shall be placed on the title page IAW MIL-M-38784.

3.3.1.3 Warning page. Vital warnings (e.g., those requiring exercise of extreme care in face of such dangers as explosives, toxic chemicals, or high pressure) shall be placed on the inside front cover. See figure 2 for an example.

3.3.1.4 Change Page (List of Effective Pages). When a DMWR is changed, there shall be a list of effective pages covering the page changes to the DMWR and including instructions on how the user can identify change material.

3.3.2 Title block, reporting errors and recommending improvements statement, distribution limitation statement, destruction, and export warning notices.

3.3.2.1 Title block. The title block shall follow the warning page. This page shall contain the same title as on the cover, the DMWR number, date of publication, official nomenclature, NSN, EIC, part number, and CAGEC. This page shall additionally include the reporting errors and recommending improvements statement and may contain table of contents data. This page shall start on a right-hand page. The title page through the table of contents pages shall be numbered in lower case Roman numerical numbers (e.g., i, ii, iii, etc). See figure 3 for an example title block page.

MIL-M-63012A

3.3.2.2 Reporting errors and recommending improvements statement. The following statement shall appear on the title block page as appropriate:

"REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS  
You can help improve this DMWR. If you find any errors or if you know of a way to improve this DMWR, let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in the back of this DMWR to: (enter name and address of proponent). A reply will be furnished to you."

(One filled-out sample copy and three blank copies of DA Form 2028-2 shall be included at the back of every DMWR.)

3.3.3 Table of contents. If space permits, the table of contents shall begin on the same page as the title block and the required statements. If space does not permit, it shall begin on the next page. A table of contents listing chapters, sections and the primary paragraphs in the same order and with the exact titles as used in the text, with page number reference, shall be required. The table of contents shall be prepared IAW MIL-M-38784. See figure 3 for an example of a title block page.

3.4 Chapter 1, introduction. Chapter 1 shall consist of the following information as required:

3.4.1 Scope. The scope shall be a brief narrative portraying purpose of the DMWR. This paragraph shall identify the ammunition to be worked on and the work that will be accomplished.

3.4.2 Forms, records, and reports. All forms, records, and reports shall be referenced that are required during the performance of depot maintenance. Instructions shall be provided for their use and disposition as provided by the contracting activity.

3.4.3 Deviations, waivers, and exceptions. Requests for deviations, waivers, or exceptions must be obtained from the publication proponent agency.

3.4.4 Corrosion prevention and control (CPC). The CPC information provided shall contain numbered subparagraphs similar to the following:

"Corrosion Prevention and Control (CPC) of material is a continuing concern. It is important that any corrosion problems with this item be reported so that the problem can be corrected and improvements made to prevent the problem in future items.

## MIL-M-63012A

While corrosion is typically associated with rusting of metals, it can also include deterioration of other materials, such as rubber and plastic. Unusual cracking, softening, swelling, or breaking of these materials may be a corrosion problem.

If a corrosion problem is identified, it shall be reported to the proponent agency."

3.4.5 Work planning. Accumulation of excess ammunition items, removal of line rejects or explosive waste/hazardous waste, and removal of items containing precious metals shall be addressed.

3.4.6 Disposition. Disposition guidance for serviceable and unserviceable components and materials shall be included as a part of each operation description, and also will address removal of hazardous materials or components and inspection of salvaged materials prior to transfer to Defense Reutilization Marketing Office (DRMO).

3.4.7 Safety requirements. The following statement shall be included: "Safety requirements shall be complied with as prescribed by appropriate service regulations."

3.4.8 Protection against Pentachlorophenol (PENTA)-treated materials. Handling of ammunition, wearing of suitable protective clothing, precautions when handling PENTA-treated packing materials and pallets shall be included, and will refer to appendix F for additional data on personal hygiene requirements, working PENTA-treated wood, and disposition of contaminated clothing. See figure 9 for an example.

3.4.9 Protection against specific hazards. Specific hazards shall be listed in each applicable operation for the ammunition and materials requiring protection against the specific hazards.

3.4.10 Environmental regulation compliance. Environmental regulations implemented by federal, state, and local governments, shall be addressed. Refer to appendix G for additional environmental data.

3.4.11 Resource conservation and recovery regulations. Resource Conservation and Recovery Act (PL 89-272) as amended by (PL 91-512), (PL 93-611), and (PL 94-58) requirements shall be included.

3.4.12 Tabulated data. Refer to appendix D for descriptive data and appendix A for applicable references.



## MIL-M-63012A

3.5 Chapter 2, operational requirements. Chapter 2 shall contain the specific operational steps. The chapter shall contain the operational description (to include safety warnings, cautions, notes, and inspections), special safety, equipment, material, and facilities requirements. The chapter may contain a flowchart for each specific operation, but it is not a requirement.

3.6 Chapter 3, quality acceptance requirements. This chapter shall identify acceptance requirements including product defect criteria, acceptable quality levels (AQL), or site defect criteria identified in the operational steps to include defect classification or to incorporate appropriate statistical process control (SPC) statements for performing activities.

3.7 Definitions. All quality assurance terms used in the DMWR shall be listed and defined. These definitions shall be IAW MIL-STD-109.

3.8 Appendixes. Appendixes shall be added to a DMWR for purposes of illustration, application, and general information relating to the DMWR as applicable. Appendix identification shall be alphabetical throughout the document in the order of reference in the text (for example APPENDIX A, APPENDIX B, etc). Appendixes shall begin on a right-hand page. Page numbers for appendixes shall be consecutively numbered A-1, A-2, etc. Appendixes shall immediately follow the last chapter of the DMWR.

3.8.1 Appendixes. Include as applicable.

3.8.1.1 APPENDIX A. References. This appendix shall consist of all publications referenced in the DMWR (except military specifications and drawings). The military specifications and drawings are shown in appendix D which together with the DMWR, make up the complete data package required for the maintenance/demilitarization of the item(s) covered in the DMWR. The publications shall be listed in groups by publication type. If nongovernment, the source shall be provided. The complete name and number of each publication shall be used. A sample Appendix A is shown at figure 4.

3.8.1.2 APPENDIX B. Consumable materials. This appendix shall consist of a list in tabular format and shall contain as a minimum this data: item number, NSN, federal item name and description if needed, part number, CAGEC, and unit of issue. A sample Appendix B is shown at figure 5.



## MIL-M-63012A

3.8.1.3 APPENDIX C. Equipment and special facilities. Appendix C shall consist of a list of equipment and special facilities required to perform the operations in the DMWR. A sample Appendix C is shown at figure 6.

3.8.1.4 APPENDIX D. Tabulated Data, Military Specifications, and Drawings. An appendix listing tabulated data extracted from Army Data Sheets, and/or major specifications and drawings applicable to the DMWR operations. See figure 7 for an example.

3.8.1.5 APPENDIX E. Approved intraplant transfer equipment. This appendix lists suggested or commonly available equipment. If the DMWR operations require no intraplant APE, this appendix should be omitted. See figure 8 for an example.

3.8.1.6 APPENDIX F. Pentachlorophenol (PENTA)-treated packing materials. When specified, this appendix shall be used and updated to include the latest requirements in all DMWRs. See figure 9 for an example.

3.8.1.7 APPENDIX G. Environmental requirements. This appendix shall be used and updated to include the latest requirements. As a minimum, this appendix shall include air, noise, emission problems and controls as applicable.

3.8.1.8 APPENDIX H. Hazard analysis or briefing. This appendix shall contain a hazard analysis updated to include the latest requirements. Potential hazards which may result in injury or death with appropriate countermeasures shall be identified.

3.8.1.9 Other appendixes. When specified by the issuing activity, other appendixes shall be added to the DMWR.

3.9 Authentication page. An authentication page shall be included after the last appendix of the DMWR.

#### 4. QUALITY ASSURANCE PROVISIONS.

4.1 Responsibility for inspection. All items shall meet all requirements of Sections 3 and 5, unless otherwise specified. The preparer is responsible for the performance of all inspection requirements as specified herein. The government reserves the right to perform any of the inspections set forth in this specification where such inspections are deemed necessary to assure supplies and services conform to prescribed requirements.

## MIL-M-63012A

4.1.1 Responsibility for compliance. All items must meet all requirements of Sections 3 and 5. The absence of any inspection requirements in the specification shall not relieve the preparer of the responsibility of ensuring that all products or supplies submitted to the government for acceptance comply with all requirements of the contract. Sampling in quality conformance does not authorize submission of known defective material, either indicated or actual, nor does it commit the government to acceptance of defective material.

5. **PACKAGING.**

5.1 Packaging and packing. Unless otherwise specified by the issuing activity, the packaging and packing of technical manuals/DMWRs and the associated products shall conform to ASTM D 3951.

6. **NOTES.**

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

6.1 Intended use. This specification is intended to be used in the preparation or acquisition of DMWRs. The requirements of this specification may be invoked by contract. However, when a government activity is writing the DMWR, they assume the role of the contractor and are responsible for meeting the requirements of this specification.

6.2 Acquisition requirements. Acquisition documents should specify the following information:

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

b. Issue of the DODISS to be cited in the solicitation, and if required, the specific issue of individual documents referenced (See para 2.1).

6.3 Technical manual acquisition. This specification must be listed on the Contract Data Requirements List (DD Form 1423) in order to acquire the technical manuals described by this specification, except where DOD FAR 27.475-1 exempts the requirement for a DD Form 1423.

MIL-M-63012A

6.4 Subject terms (key word) listing.

Corrosion

Pentachlorophenol

Hazards

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



**DMWR 9-1315-C380-F20**

**DEPOT MAINTENANCE WORK REQUIREMENT**

**for**

**RENOVATION OF CARTRIDGE, 120MM: APFSDS-T, M829A1**

**NSN 1315-01-269-2256 (EIC XXX)  
PN XXXXXXXX, (XXXXX)**

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U.S. ARMY ARMAMENT AND CHEMICAL  
ACQUISITION LOGISTICS ACTIVITY  
Rock Island, IL 61299-6000  
September 1994

**FIGURE 1. ARMY - Example of a DMWR cover (Sheet 1 of 3)  
(para 3.3.1).**

**MIL-M-63012A**

**FOR OFFICIAL USE ONLY**

**DMWR 9-1340-HX01-X50**

**DEPOT MAINTENANCE WORK REQUIREMENT**

**FOR**

**DEMILITARIZATION OF LIGHT ANTITANK WEAPON (LAW)  
LAUNCHERS (WITH RADIO ACTIVE LIMITED LIGHT SIGHTS);  
M72 AND M72A1 FOR 66MM HEAT ROCKET; AND  
M190 FOR 35MM SUBCALIBER PRACTICE ROCKET**

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PREPARED BY  
NAVAL WEAPONS SUPPORT CENTER, CRANE, IN

PUBLISHED BY DIRECTION OF  
COMMANDER, NAVAL SEA SYSTEMS COMMAND  
AUGUST 1992

**FIGURE 1. NAVY - Example of NAVSEA DMWR cover (Sheet 2 of 3)  
(para 3.3.1).**



**MIL-M-63012A**

**NAVAIR 11-5A-35**

30 September 1993

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**TECHNICAL MANUAL**

**INTERMEDIATE TECHNICAL (WPNSTA)  
WITH ILLUSTRATED PARTS BREAKDOWN**

**CLUSTER BOMBS UNITS**

**MK 20 MODS 2, 3, 4, 6, 7, 8, 9, 10, 11, 12  
CBU-99 SERIES AND CBU-100 SERIES  
ANTI-TANK BOMB CLUSTER (ROCKEYE)**

**INERT AND EXPLOSIVE LOADED**

This manual supersedes NAVAIR 11-5A-3, Change 1, Dated 15 January 1989.

**DISTRIBUTION STATEMENT C.** Distribution authorized to U.S. Government agencies and their contractors to protect publications required for official use or for administrative or operational purposes only (30 September 1993). Other requests for this document shall be referred to Commanding Officer, Naval Air Technical Services Facility, 700 Robbins Ave, Philadelphia, PA 19111-5097.

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Published by Direction of the Commander, Naval Air Systems Command

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**FIGURE 1. NAVY - Example of NAVAIR DMWR cover (Sheet 3 of 3)  
(para 3.3.1).**

MIL-M-63012A

## WARNING

### RADIATION HAZARD

THIS EQUIPMENT CONTAINS THE FOLLOWING RADIOACTIVE TUBES (LIST APPLICABLE TUBES AND EQUIPMENT LOCATIONS) RADIATION MAY BE PRESENT AT UNSEALED OR BROKEN WAGE GUIDE ELEMENTS.

### HIGH VOLTAGE

HIGH VOLTAGE IS USED IN THE OPERATION OF THIS EQUIPMENT. DEATH ON CONTACT MAY RESULT IF PERSONNEL FAIL TO OBSERVE SAFETY PRECAUTIONS. LEARN THE AREAS CONTAINING HIGH VOLTAGE IN EACH PIECE OF EQUIPMENT. BE CAREFUL NOT TO CONTACT HIGH VOLTAGE CONNECTIONS WHEN INSTALLING OR OPERATING THIS EQUIPMENT. BEFORE WORKING INSIDE THE EQUIPMENT, TURN POWER OFF AND GROUND POINTS OF HIGH POTENTIAL BEFORE TOUCHING THEM.

### COMPRESSED EQUIPMENT, GASES OR AIR

GASES OR AIR UNDER PRESSURE 3,000 PSI AIR PRESSURE IS USED IN THE OPERATION OF THIS EQUIPMENT. DEATH OR SEVERE INJURY MAY RESULT IF PERSONNEL FAIL TO OBSERVE SAFETY PRECAUTIONS.

FIGURE 2. Example of warnings (Sheet 1 of 2) (para 3.3.1.3).

## MIL-M-63012A

## EXPLANATION OF SINGLE HAZARD SYMBOLS



The abstract symbol bug shows that a material may contain bacteria or viruses that present a danger to life or health.



The symbol of drops of a liquid onto a hand shows that the material will cause burns or irritation of human skin or tissue.



The rapidly expanding symbol shows that the material may explode if subjected to high temperatures, sources of ignition, or high pressure.



The symbol of a person wearing goggles shows that the material will injure the eyes.



The symbol of a flame shows that the material can ignite and burn personnel.



The symbol of a skull and crossbones shows that a material is poisonous or is a danger to life.



The symbol of three circular wedges shows that the material emits radioactive energy and can injure human tissue or organs.



The symbol of a human figure in a cloud shows that vapors of a material present a danger to life or health.

This Hazardous Materials Warnings section gives the complete warnings for hazardous material used in this manual. To help the user understand the potential hazards of these materials, a more detailed warning for these materials and an explanation of the hazard symbols follow.

FIGURE 2. Example of warnings (Sheet 1 of 2) (para 3.3.1.3).

MIL-M-63012A

DMWR

U.S. ARMY ARMAMENT, RESEARCH,  
DEVELOPMENT AND ENGINEERING  
CENTER

No. 9-1315-C380-F20

Rock Island, IL 61299-6000

14 December 1993

# DEPOT MAINTENANCE WORK REQUIREMENTS

## FOR

**RENOVATION OF Cartridge, 120MM: APFSDS-T, M829A1**  
**NSN 1315-01-269-2256, (EIC XXX)**  
**PN XXXXXXXX, (XXXXX)**

### REPORTING OF ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this DMWR. If you find any errors, or if you know of a way to improve the DMWR, let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-1 located in the back of this DMWR directly to: Commander, U.S. Army Research, Development and Engineering Center, ATTN: AMSMC-LSB, Picatinny Arsenal, NJ 07806-5000. A reply will be furnished to you.

### TABLE OF CONTENTS

<u>CHAPTER/SECTION</u>	<u>TITLE</u>	<u>PARAGRAPH NO.</u>	<u>PAGE NO.</u>
Chapter 1	INTRODUCTION		
Section 1	General . . . . .	1.1	1
	Scope . . . . .	1-1	1
	Work Planning . . . . .	1-1	2
	Disposition . . . . .	1-2	2

**FIGURE 3. Example of a title block page and table of contents (paras 3.3.2.1).**

**MIL-M-63012A****APPENDIX A****REFERENCES****A-1 Administrative Publications.**

a. Publication Index. The following publication index should be consulted frequently for latest changes or revisions of references given in this appendix and for new publications relating to the material covered in this DMWR.

Consolidated Index of Army Publications and Blank Forms. . . . . DA PAM 25-30

b. Army Regulations.

Reporting of Transportation Discrepancies in Shipments . . . . . AR 55-38  
 Environmental Protection and Enhancement . . . . . AR 200-1  
 Army Safety Program . . . . . AR 385-100  
 Accident Reporting and Records . . . . . AR 385-40  
 Fire Prevention and Protection . . . . . AR 420-90  
 Ammunition Peculiar Equipment (APE) . . . . . AR 700-20  
 . . . . . DARCOM Supp 1  
 Worldwide Ammunition Reporting System (WARS) . . . . . AR 700-22  
 Reporting of Item and Packaging Discrepancies . . . . . AR 735-11-2

c. AMC/DARCOM Regulations.

Safety Manual . . . . . AMC-R 385-100  
 Industrial, Medical and Hygiene Considerations . . . . . AMC-R 40-2  
 Preparation of Standing Operating Procedures (SOP's) . . . . . AMC-R 700-107  
 Hazard Analysis for Facilities, Equipment, and  
 Process Development . . . . . DARCOM-R 385-3  
 Depot Maintenance Program Scheduling, Workloading,  
 and Reporting System . . . . . DARCOM-R 750-28  
 Authorizing and Reporting of Demilitarization of  
 Class V Materiel . . . . . AMC-R 755-8

d. Military Standards.

Sampling Procedures and Tables for Inspection  
 by Attributes . . . . . MIL-STD-105  
 Sampling Procedures and Tables for Inspection by  
 Variables for Percent Defective . . . . . MIL-STD-414  
 Ammunition Data Cards . . . . . MIL-STD-1167  
 Lot Numbering of Ammunition . . . . . MIL-STD-1168

A-1

**FIGURE 4. Example of Appendix A, references (para 3.8.1.1).**

## MIL-M-63012A

## APPENDIX B

## CONSUMABLE MATERIALS LIST

NATIONAL STOCK NUMBER	DESCRIPTION PART NUMBER/CAGEC	UI/ UM
6810-00-184-4796	ACETONE, TECHNICAL 0-A-51 (81348)	5 GL
6810-00-543-7415	ALCOHOL, DENATURED 0E760 (81348)	GL
8010-00-297-2113	ENAMEL, AMMUNITION, OLIVE DRAB TT-E-516 (81348)	PT
8010-00-848-9272	ENAMEL, AMMUNITION, OLIVE DRAB, NO. 34087, PT SPRAY CAN TT-E-516 (81348)	5 GL
9310-00-161-7853	BOARD, STENCIL, OILD, 8" x 24" 10688529 (18876)	EA
8010-00-297-2119	ENAMEL, AMMUNITION, OLIVE DRAB NO. 34897, PT SPRAY CAN TT-E-516 (81348)	GL
7510-00-161-0811 7510-00-161-0813	INK, MARKING, STENCIL, BLACK TT-I-1795 (80244)	QT
7510-00-469-7910	INK, MARKING, STENCIL, BLACK TT-I-1795 (80244)	PT
7510-00-161-0815	INK, MARKING, STENCIL, WHITE TT-I-1795 (81348)	GL
7510-00-419-9564	INK, MARKING, STENCIL, WHITE TT-I-1795 (81348)	PT
7510-00-161-0816	INK, MARKING STENCIL, YELLOW TT-I-1795 (81348)	GL
7510-00-183-7698	INK, MARKING, STENCIL, YELLOW (SPRAY, PINT) TT-L-1795 (81348)	PT
5340-00-292-0886	SEALS, ANTIPILFERAGE, LEAD LEADSEAL (11821)	HD
B-1		

FIGURE 5. Example Appendix B, consumable materials list  
(Para 3.8.1.2).



## MIL-M-63012A

## APPENDIX D

## TABULATED DATA, MILITARY SPECIFICATIONS, AND DRAWINGS

## D-1. TABULATED DATA.

**NOTE:** Numerical values, such as weights, dimensions, etc., are nominal values, except when specified as maximum or minimum. Actual items may vary slightly from these values. Allowable limits can be obtained from the drawings indicated in paragraph D-3.

## Complete round:

Type	HE
Weight	95.6 lb.
Length (w/lifting plug)	26.93 in. max.

## Projectile:

Body material	Forged steel
Color	Olive Drab w/yellow marking
Filler and weight	TNC/14.6 lb. (deep cavity) Comp B/15.4 lb. (Comp B)

## Components:

Supplementary charge	0.36 lb. TNT
Packing	8 projectiles on pallet

## Pallet:

Weight	797 lb.
Dimensions	27-1/8 x 13-5/8 X 32 in.
Cube	6.8 cu. ft.

## Shipping and Storage Data:

Quantity - distance class	(18) 1.1
Storage compatibility group	D
	Upper +160° (for periods not more than 4 hrs/day)/
Lower	80°F (for periods not more than 3 days)
DOT shipping class	A
DOT designation	Explosive projectile
DODAC:	
Deep cavity	1320-D544
Normal cavity	1320-D571

D-1

**FIGURE 7. Example of Appendix D, Tabulated data, military specifications, and drawings (Sheet 1 of 2) (para 3.8.1.4).**

**MIL-M-63012A****D-2. MILITARY SPECIFICATIONS.**

Ammunition, General Specification for . . .	MIL-A-2550
Inspection System Requirements . . . . .	MIL-I-45208
Projectile, 155mm: HE, M107 . . . . .	MIL-P-60377
Inspection, Radiographic . . . . .	MIL-STD-453
Respirator, Air Filtering . . . . .	MIL-STD-609
Radiographic Inspection: Qualification of Equipment, Operators, and Procedures	MIL-R-11470

**D-3. DRAWINGS.**

Projectile, 155mm: HE, M107 . . . . .	9216352
Alignment and Calibration Standard for Ultrasonic Inspection of 155mm Projectile, HE, M107, w/Supplementary Charge . . . . .	9332437
Supplementary Charge Assembly . . . . .	8797090
Gage, ring, plain . . . . .	8651471
Spacer . . . . .	8797088
Pallet for 155mm Projectile . . . . .	7549275
Disc, Closing . . . . .	8838202

D-2

**FIGURE 7. Example of Appendix D, tabulated data, military specifications, and drawings (Sheet 2 of 2) (para 3.8.1.4).**

**MIL-M-63012A****APPENDIX E****APPROVED INTRAPLANT TRANSFER EQUIPMENT****E-1. GENERAL.**

a. This information is provided to assist the depot in developing an economical, efficient, and safe method of conveying and transporting ammunition and components through the operations cited in this DMWR.

b. The Ammunition Peculiar Equipment (APE) and approved equivalent non-APE listed in this appendix is approved and preferred for use in ammunition maintenance transfer operations. Use of equivalent, non-APE equipment is acceptable if the listed APE is not available.

c. Operation of approved APE and approved equivalent non-APE must be in accordance with all local safety requirements.

d. Use of APE is governed by AR 700-20.

e. Refer to TM 43-0001-47 and the applicable Operator's Manuals for further information and data concerning the listed ammunition transfer equipment.

f. Contact AMCCOM, Rock Island, IL, APE Section (AMSMC-DSM-ME) DSN 793-6881/5974 with further questions concerning transfer equipment, if required.

**E-2. APPROVED CONVEYOR SYSTEMS.**

a. Conveyor, Powered Belt, APE 1022M1. Used to convey artillery projectiles, small rockets, wooden and fiber boxed general supplies, miscellaneous ammunition, and ammunition components through plant buildings. The conveyor requires 220/440 VAC, 3-phase, 60-Hz power source. Conveyor lengths vary to suit installation needs.

b. System, Monorail, Conveyor, APE 1044M1. Used to convey loaded projectiles and/or fixed rounds of ammunition, 37mm through 155mm, through painting and drying operations. The conveyor requires a 220/440 VAC, 3-phase, 60-Hz power source. Monorail system lengths vary to suit installation needs. The monorail is used with the following paint booths: APE 1045, APE, 1069, APE 1070, APE 1205, APE 1214, AND APE 1280.

**FIGURE 8. Example of Appendix E, approved intraplant transfer equipment (Sheet 1 of 2)  
(para 3.8.1.5).**

**MIL-M-63012A**

c. Conveyor, Powered Belt, APE 2032. Used to convey small arms ammunition and other small items short distances. The conveyor requires a 220/440 VAC, 3-phase, 60-Hz power source. Conveyor lengths vary to suit installation needs. The conveyor is used with storage hoppers APE 2021 and APE 2031.

**E-3. APPROVED AMMUNITION CARTS.**

The following carts are designed to provide an economical, efficient, and safe method of conveyance for ammunition and components in operations where power conveyance is not safe, not practical, or not available. The carts are adaptable for transferring inspection samples, rejects, and re-runs on an operational line.

a. Cart, Ammunition, 37mm through 105mm Projectiles, APE 1176. Used to transport up to six projectiles during maintenance operations. The projectiles can be a maximum of 18 inches in length. The maximum load on the cart cannot exceed 400 pounds.

b. Cart, Ammunition, Complete Round, APE 1177. Used to transport four complete rounds of ammunition during maintenance operations. The cart accomodates 37mm through 105mm cartridges up to 40-inches long.

c. Cart, Ammunition, Small Items, APE 1177. Used to transport fuzes and other small items during maintenance operations.

d. Cart, Projectile, Navy, APE 7031. Used to transport heavy ammunition items or components, especially Navy 5-inch and 6-inch projectiles.

**E-4. APPROVED LIFTING DEVICES**

a. Life, Projectile (Conveyor - Monorail), APE 2137. Used to lift or lower 120mm through 8 inch projectiles from a belt conveyor to a monorail conveyor. Used in conjunction with approved conveyors APE 1022M1 and APE 1044M1. The lift must have access to air at 100 psi.

b. Device, Projectile Lifting, APE 2168. Used to raise or lower 155mm through 8 inch projectiles from a belt conveyor to a monorail conveyor. Used in conjunction with approved conveyors APE 1022M1 and APE 1044M1. The device must have access to air at 80-100 psi.

**FIGURE 8. Example of Appendix E, approved intraplant transfer equipment (Sheet 2 of 2) (para 3.8.1.5).**

**MIL-M-63012A****APPENDIX F****PENTACHLOROPHENOL (PENTA) -TREATED PACKING MATERIALS****F-1. GENERAL.**

The degree of hazard associated with PENTA-treated packing materials cannot be determined by visual examination. There are no quantifiable criteria to use in judging such terms as "loose" or "excessive". The guidance given herein should be followed under the direction of a resident Industrial Hygienist who has evaluated the actual PENTA exposure in question. PENTA itself is a registered pesticide and is toxic by inhalation, ingestion, or contact. In situation where liquid solutions of PENTA are to be used, the hygiene/occupational medicine support should be obtained prior to planning such operations.

**F-2. PERSONAL HYGIENE REQUIREMENTS.**

The handling of treated packaging materials represents less hazard, but it is necessary to maintain both procedural controls and good personal hygiene. Persons handling PENTA-treated dry wooden boxes or pallets will wear leather-palmed work gloves and flame-retardant coveralls or tyvek coveralls dry. Personnel should not be permitted to eat, drink, or smoke during work periods. Personnel should be required to wash prior to eating, drinking, smoking, or using toilet facilities, and after each shift. The leather-palmed gloves should be maintained separate from items of personal clothing and should be disposed of as PENTA-contaminated when no longer required. The coveralls should be laundered after use to prevent accumulation of PENTA. Any personnel who may be pregnant should not be allowed to work with PENTA-treated material. Personnel encountering problems relating to PENTA-treated material should be referred to Installation/Unit Medical Officer.

**F-3. AREAS OF WETNESS OR TACKINESS.**

PENTA-treated items that show areas of wetness, tackiness, or crystallization of surfaces represent a higher degree of hazard. When it is necessary to handle such materials, impervious protective gloves and aprons (neoprene or nitrile rubber) should be worn to prevent skin contact and contamination of clothing. The gloves may be Men's Solvent Resistant, Black, Type III, Gloves (NSN 8415-00-823-7455) or equivalent. All protective gear and clothing which directly contacts PENTA crystals, solution, or PENTA-treated materials showing evidence of wetness or tackiness should be replaced or laundered after use to prevent accumulation of PENTA. Even when the treated materials do not show evidence of wetness, tackiness, or crystallization, it is still good practice to have the clothing laundered after use.

**FIGURE 9. Sample Appendix F, pentachlorophenol (PENTA)-treated packing materials(sheet 1 of 3) (para 3.8.1.6).**

**MIL-M-63012A****F-4. VOLATILIZED PENTA.**

Under conditions of warm temperatures or enclosed storage, volatilized PENTA may cause respiratory distress and/or eye irritation. An obvious odor of PENTA or irritation of the mucous membranes of the eyes, nose or throat are indications of potentially harmful airborne PENTA dust, mist or vapor.

Ventilation sufficient to reduce the irritation to an unnoticeable level, or chemical cartridge respirators with organic vapor cartridges and dust, fume, or mist filters, including pesticide respirators, will be required. If the airborne PENTA concentration exceeds, or is expected to exceed, the Threshold Limit Value (TLV) or 0.5 mg/m<sup>3</sup> Time Weighted Average (TWA), a NIOSH-approved organic vapor respirator with dust prefilter must be worn. The U.S. Army Environmental Hygiene Agency provides the following sampling laboratories should be contacted to verify their particular sampling protocol:

<u>Mechanism</u>	<u>Equipment</u>	<u>Sample Rate or time</u>	<u>Sample Vol. in Liters</u>	
			<u>Min</u>	<u>Max</u>
a. Carried by Sawdust	Filter Cassette closed-face with spacer (CE 0.8 Micron)	1-2 Liters/Minute	50	500
b. Vapor	Midget Impinger 15 ml of Ethylene Glycol)	1.5 Liters/Minute	100	240

If the TLV of 0.5 mg/m<sup>3</sup> is exceeded, adequate precautions must be taken to reduce worker exposure to a safe level.

**F-5. WORKING PENTA-TREATED WOOD.**

Personnel should not burn PENTA-treated wood or scraps, due to the transmittability of PENTA particles, dust, and vapor into smoke, and should not be allowed to work PENTA-treated wood (sanding, sawing, drilling, planing, etc.) because of the potential release of PENTA-contaminated particles and dust.

**FIGURE 9. Sample Appendix F, pentachlorophenol (PENTA)-treated packing materials (sheet 2 of 3) (para 3.8.1.6).**



**MIL-M-63012A****F-6. DISPOSITION OF CONTAMINATED CLOTHING.**

Clothing, rags, or gloves that have been contaminated with PENTA, and are no longer required, should be placed in metal containers and sealed. The containers of waste material should be labeled as to contents and be provided to local property disposal personnel for appropriate disposal. In OCONUS locations, disposal should consider the environmental requirements of the host nation. Specific information on the safe storage and disposal of PENTA-contaminated materials may be obtained from U.S. ARMY Environmental Hygiene Agency, Toxicology Division (HSHB-07) and the Waste Disposal Engineering Division (HSHB-ES-H), Edgewood, MD 21040, DSN 584-2024.

**F-7. CRYSTALLIZATION (BLOOMING) OF PENTA-TREATED MATERIALS.**

Crystallization (bloom) of PENTA-treated materials may require correction if it poses a health hazard to individuals, as determined by local medical authorities. The process of removing excess crystals should be accomplished without increasing the health risk to exposed personnel. Specific procedures and industrial hygiene support should be requested from U.S. Army Environmental Hygiene Agency, Toxicology Division (HSHB-ES-H), Edgewood, MD 21040, DSN 584-2024.

**F-8. HANDLING OF LUMBER TREATED WITH ZINC NAPHTHENATE/COPPER NAPHTHENATE.**

Prevent inhalation, ingestion, and skin contact. Personnel should wash hands before eating, drinking, smoking, and using toilet facilities. All exposed areas of the body should be washed at the end of each workday. Leather palmed gloves should offer proper skin protection. If skin irritation is noted, a vinyl-coated glove can then be substituted. Coveralls may be required if irritation is noted for other areas of the body. A NIOSH-approved dust mask should be worn when sawing and machining treated wood.

**FIGURE 9. Sample Appendix F, pentachlorophenol (PENTA)-treated packing materials (sheet 3 of 3) (para 3.8.1.6).**

**MIL-M-63012A****APPENDIX A****SINGLE HAZARD ICONS PRESENTATION****10 SCOPE**

10.2 Scope. This appendix lists single hazard icons which may be used in technical manuals (TM) warnings either singly or in combination. This list is intended to include all approved single hazard icons; additional icons and definitions will be added, as applicable, when this document is amended or revised. This appendix is a mandatory part of the standard. The information contained herein is intended for compliance.

**20 APPLICABLE DOCUMENTS.**

This section is not applicable to this appendix.

**30 DEFINITIONS**

30.1 Icon. Pictorial representation; visual image to give immediate recognition of a hazard.

**40 GENERAL REQUIREMENTS**

40.1 Usage of icons. Icons shall be used with signal word(s). The signal word(s) shall be placed to the right of or below the icon(s) as shown in figure A-1. The icon(s) shall precede applicable text in TMs.

**40.2 Development of icons.**

40.2.1 Icons shall be enclosed in a square or rectangular box. The signal word(s) for single icons shall appear outside the box at the upper right-hand side. Type size for signal word(s) shall be no smaller than 10 point; 12 point bold face type is recommended. (See figure A-2 for presentation format for icon usage.)

40.2.2 As specified by the contracting activity, icons shall or shall not be prepared for electronic presentation digitizing per Government-provided requirements.

**50 DETAILED REQUIREMENTS**

50.1 Icons and definitions. The following icons shall be used in warnings for all TMs governed by this standard when applicable. Unless requirement is specifically excluded by the contracting activity, the signal words and definitions shall be used as listed herein.

MIL-M-63012A

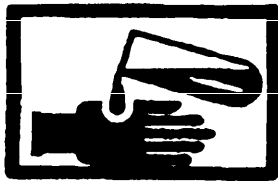
ICON

SIGNAL WORD - DEFINITION

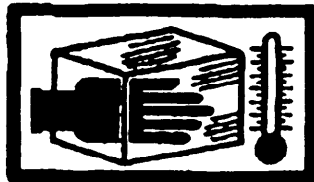
NOTE: Signal word appears in all capital letters below, preceding the definition.



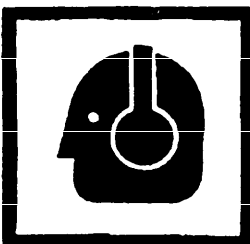
**BIOLOGICAL** - abstract symbol bug shows that a material may contain bacteria or viruses that present a danger to life or health.



**CHEMICAL** - drops of liquid on hand shows that the material will cause burns or irritation to human skin or tissue.



**CRYOGENIC** - hand in a block of ice shows that the material is extremely cold and can injure human skin or tissue.



**EAR PROTECTION** - headphones over ears shows that noise level will harm ears.

FIGURE A-1. Icons with signal word samples (Sheet 1 of 6)  
(reference Appendix A, para 40.1).

MIL-M-63012A



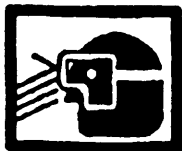
ELECTRICAL - electrical wire to arm with electricity symbol running through human body shows that shock hazard is present.



ELECTRICAL - electrical wire to hand with electricity symbol running through hand shows that shock hazard is present.



EXPLOSION - rapidly expanding symbol shows that the material may explode if subjected to high temperatures, sources of ignition or high pressure.



EYE PROTECTION - person with goggles shows that the material will injure the eyes.



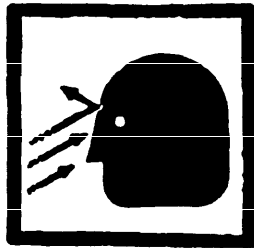
FALLING PARTS - arrow bouncing off human shoulder and head shows that falling parts present a danger to life or limb.



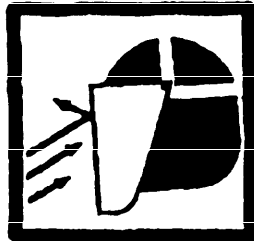
FIRE - flame shows that a material may ignite and cause burns.

FIGURE A-1. Icons with signal word samples (Sheet 2 of 6)  
(reference Appendix A, para 40.1.

MIL-M-63012A



**FLYING PARTICLES** - arrows bouncing off face shows that particles flying through the air will harm face.



**FLYING PARTICLES** - arrows bouncing off face with face shield shows that particles flying through the air will harm face.



**HEAVY OBJECT** - human figure stooping over heavy object shows physical injury potential from improper lifting technique.



**HEAVY PARTS** - hand with heavy object on top shows that heavy parts can crush and harm.



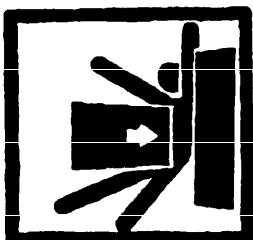
**HEAVY PARTS** - foot with heavy object on top shows that heavy parts can crush and harm.

**FIGURE A-1.** Icons with signal word samples (Sheet 3 of 6)  
(reference Appendix A, para 40.1.

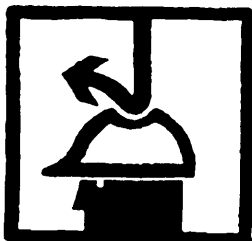
MIL-M-63012A



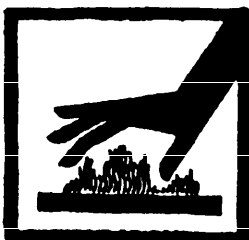
HEAVY PARTS - heavy object on human figure shows that heavy parts present a danger to life or limb.



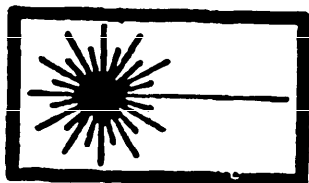
HEAVY PARTS - heavy object pinning human figure against wall shows that heavy, moving parts present a danger to life or limb.



HELMET PROTECTION - arrow bouncing off head with helmet shows that falling parts present a danger.



HOT AREA - hand over object radiating heat shows that part is hot and can burn.

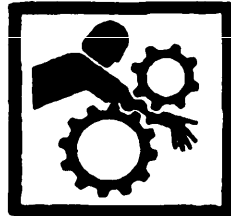


LASER LIGHT - laser light hazard symbol indicates extreme danger for eyes from laser beams and reflections.

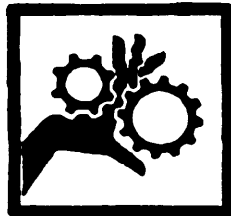
FIGURE A-1. Icons with signal word samples (Sheet 4 of 6)  
(reference Appendix A, para 40.1.



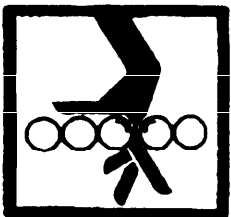
MIL-M-63012A



MOVING PARTS - human figure with an arm caught between gears shows that the moving parts of the equipment present a danger to life or limb.



MOVING PARTS - hand with fingers caught between gears shows that the moving parts of the equipment present a danger to life or limb.



MOVING PARTS - hand with fingers caught between rollers shows that the moving parts of the equipment present a danger to life or limb.



POISON - skull and crossbones shows that a material is poisonous or is a danger to life.



RADIATION - three circular wedges shows that the material emits radioactive energy and can injure human tissue.

FIGURE A-1. Icons with signal word samples (Sheet 5 of 6)  
(reference Appendix A, para 40.1).

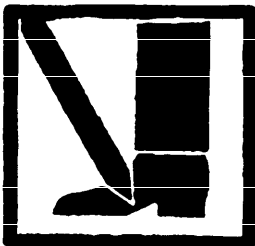
MIL-M-63012A



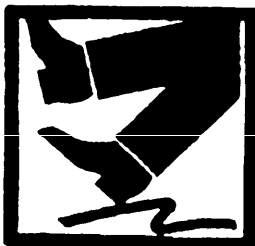
SHARP OBJECT - pointed object in hand shows that sharp object presents a danger to limb.



SHARP OBJECT - pointed object in hand shows that sharp object presents a danger to limb.



SHARP OBJECT - pointed object in foot shows that sharp object presents a danger to limb.

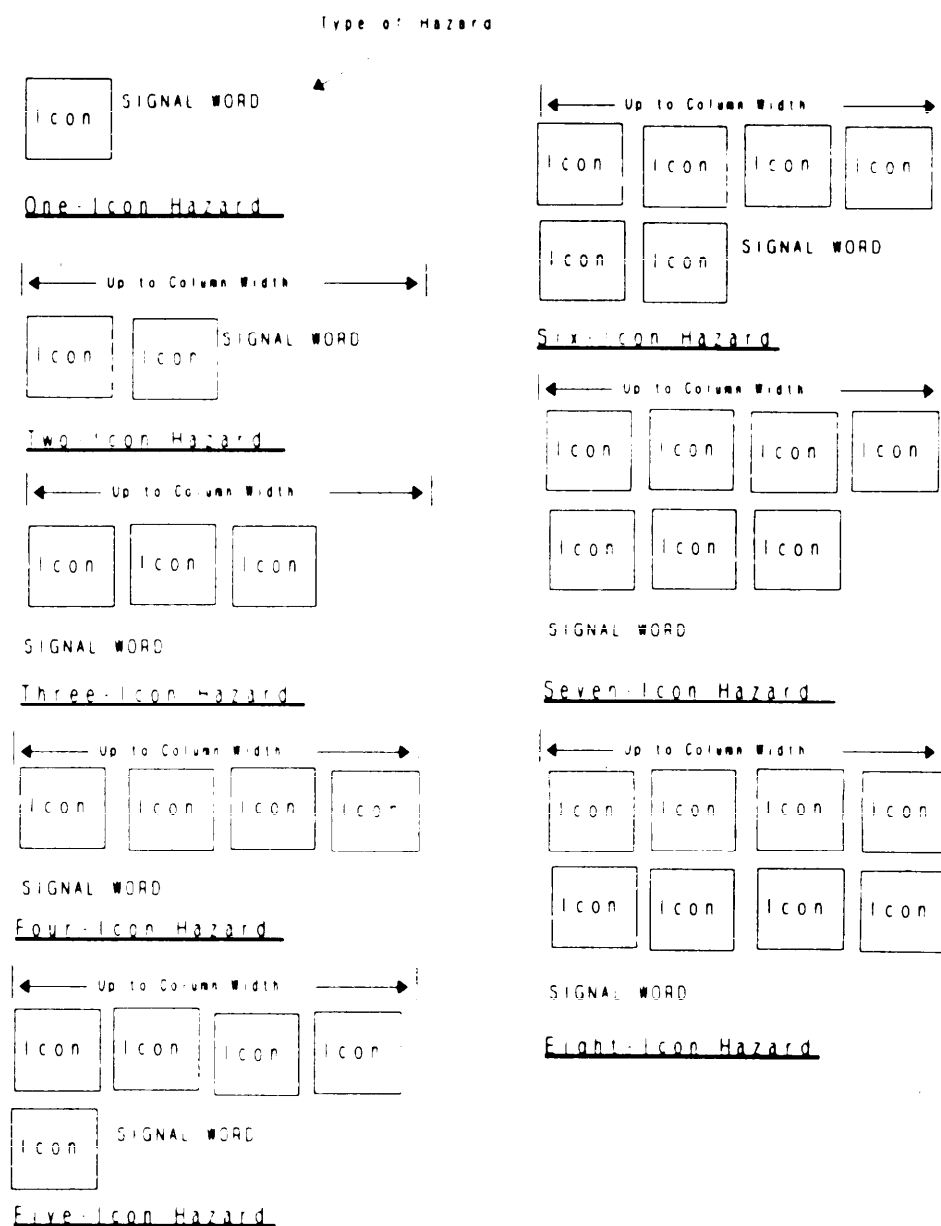


SLICK FLOOR - wavy line on floor with legs prone shows that slick floor presents a danger for falling.



VAPOR - human figure in a cloud shows that material vapors present a danger to life or health.

FIGURE A-1. Icons with signal word samples (Sheet 6 of 6)  
(reference Appendix A, para 40.1.

**MIL-M-63012A**

**Figure A-2. Multiple icon usage and presentation format (reference Appendix A, paras 40.1, 40.2.1).**

## MIL-M-63012A

## INDEX

Title  
Paragraph

Abbreviations . . . . .	2.1/3.1.3
Acquisition requirements . . . . .	6.2
Acronyms . . . . .	3.1.3
Appendix . . . . .	3.8/3.8.1
Appendixes, other . . . . .	3.8.1.9
Applicability . . . . .	1.3
APPLICABLE DOCUMENTS . . . . .	2.0
Approved intraplant transfer equipment . . . . .	3.2/3.8.1.5
Authentication page . . . . .	3.9
Cautions. . . . .	3.1.6
Changes from previous issue. . . . .	6.4
Change page. . . . .	3.3.1.4
Consumable Materials. . . . .	3.2f/3.8.1.2
Corrosion prevention and control (CPC) . . . . .	3.4.4
Cover . . . . .	3.3.1
Definitions . . . . .	3.7
Destruction notice . . . . .	3.3.1.1
Deviations and exceptions . . . . .	3.4.3
Disposition . . . . .	3.4.6
Distribution limitation statement . . . . .	3.3.1.1
Environmental requirements . . . . .	3.2k/3.8.1.7
Environmental regulations compliance . . . . .	3.4.10
Equipment and special facilities. . . . .	3.2g/3.8.1.3
Facilities . . . . .	3.2g/3.8.1.3
Federal item name . . . . .	3.8.1.2
Figures . . . . .	1.2
Forms . . . . .	3.4.2
Front matter . . . . .	3.2a/3.3
Government documents . . . . .	2.1
Hazard analysis . . . . .	3.21/3.8.1.8
Hazardous material warnings and icons . . . . .	3.1.7
Icons . . . . .	3.1.6
Illustrations . . . . .	3.1.4
Intended use . . . . .	6.1
Introduction . . . . .	3.2b/3.4

**MIL-M-63012A**

National stock numbers (NSN) . . . . .	3.1.2
Nomenclature . . . . .	3.1.2
NOTES . . . . .	6.0
Order of precedence . . . . .	2.3
Operational requirements. . . . .	3.5
PACKAGING . . . . .	5.0
Packaging and packing . . . . .	5.1
Part numbers . . . . .	3.1.2
Pentachlorophenol (PENTA)-treated packing . . . . .	3.2j/3.8.1.6
Protection . . . . .	3.4.8/3.4.9
Quality Acceptance Requirements . . . . .	3.2c/3.6
QUALITY ASSURANCE PROVISIONS . . . . .	4.0
References . . . . .	3.1.4/3.2e/3.8.1.1
Reporting errors . . . . .	3.3.2
Reports . . . . .	3.4.2
REQUIREMENTS . . . . .	3.0
Resource responsibility . . . . .	3.9.1
Resource recovery . . . . .	3.4.11
Responsibility for inspection . . . . .	4.1
Safety requirements . . . . .	3.4.7
SCOPE . . . . .	1.0
Scope . . . . .	1.1/3.4.1
Specifications . . . . .	2.1
Standards . . . . .	2.1.1/3.5.3
Style and format . . . . .	2.1
Supersession notice . . . . .	3.3.1.2
Table of contents . . . . .	3.3.3
Tabulated data . . . . .	3.2h/3.4.12
Title block . . . . .	3.3.2/3.3.2.1
Warning page . . . . .	3.3.1.3
Work planning . . . . .	3.4.5

**CUSTODIAN:**

Army - TM

Navy - SH

**PREPARING ACTIVITY:**

Army - TM

**Review Activities:**

Army - AL, AR, CR, EA, MI

Navy - AS, NW, NM

Project Number TMSS 0298

## STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

## INSTRUCTIONS

1. The preparing activity must complete blocks 1,2,3, and 8. In block 1, both the document number and revision letter should be given.
2. The submitter of this form must complete blocks 4,5,6, and 7
3. The preparing activity must provide a reply within 30 days from receipt of this form.

NOTE: This form may not be used to request copies of documents, nor to request waivers, or clarification of requirements on current contracts. Comments submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or to amend contractual requirements.

<b>I RECOMMEND A CHANGE</b>	1. DOCUMENT NUMBER MIL-M-63012A	2. DOCUMENT DATE (YYMMDD) 940726
3. DOCUMENT TITLE Manuals, Technical: Depot Maintenance Work Requirements for Maintenance/Demilitarization of Conventional and Chemical Ammunition		
4. NATURE OF CHANGE (Identify paragraph number and include proposed rewrite, if possible. Attach extra sheets as needed.)		
5. REASON FOR RECOMMENDATION		
6. SUBMITTER		
a. NAME (Last, First, Middle Initial)	b. ORGANIZATION	
c. ADDRESS (Include Zip Code)	d. TELEPHONE (Include Area Code) (1) Commercial  (2) AUTOVON (If applicable)	7. DATE SUBMITTED (YYMMDD)
8. PREPARING ACTIVITY		
a. NAME USAMC Logistic Support Activity	b. TELEPHONE (Include Area Code) (1) Commercial (2) AUTOVON Comm (205) 995-9858 DSN 645-9858	
c. ADDRESS (Include Zip Code) ATTN: AMXLS-APP Redstone Arsenal, AL 35898-7466	IF YOU DO NOT RECEIVE A REPLY WITHIN 45 DAYS, CONTACT: Defense Quality and Standardization Office 5203 Leesburg Pike, Suite 1403, Falls Church, VA 22041-3466 Telephone (703) 756-2340 AUTOVON 289-2340	

