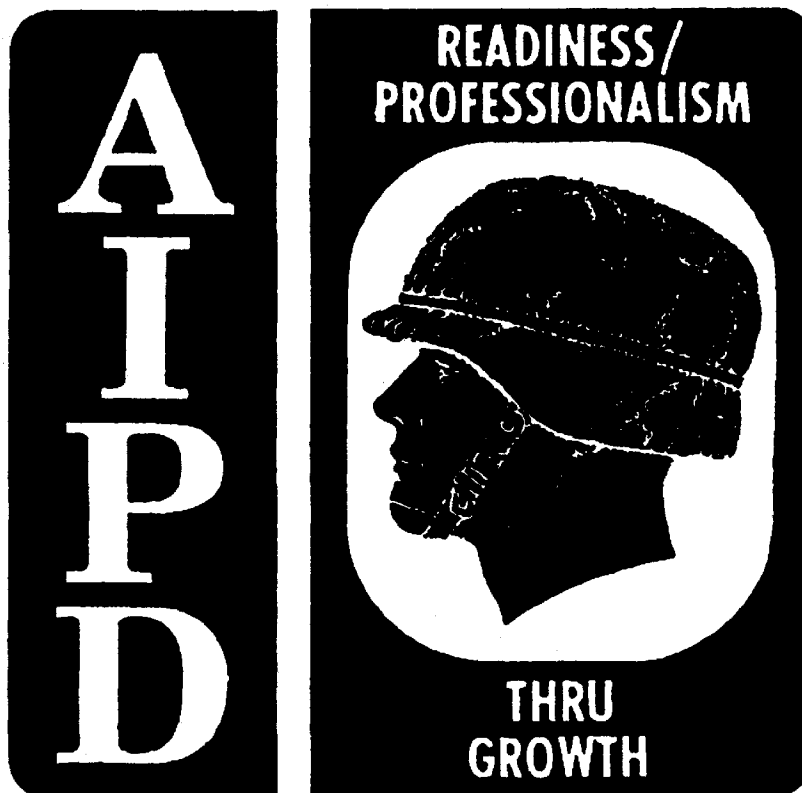


SUBCOURSE
MM3667

EDITION
A

US Army Ammunition Inspector
MOS 55X Skill Levels 3 and 4 Course

INTRODUCTION TO AMMUNITION
INSPECTION RECORDS



US ARMY ORDNANCE
MISSILE AND MUNITIONS CENTER AND SCHOOL

THE ARMY INSTITUTE FOR PROFESSIONAL DEVELOPMENT
ARMY CORRESPONDENCE COURSE PROGRAM

**US Army Ammunition Inspector
MOS 55X Skill Levels 3 and 4 Course**

**INTRODUCTION TO AMMUNITION
INSPECTION RECORDS**

SUBCOURSE MM3667

**Missile and Munitions
United States Army Combined Arms Support Command
Fort Lee, Virginia 23801-1809**

MM3667

This publication is provided for nonresident instruction only. It reflects the current thought of this school and conforms to published Department of the Army doctrine as closely as possible.

Users of this publication are encouraged to recommend changes and submit comments for its improvement. Comments should be keyed to the specific page and line of the text to which the change is recommended. Reasons will be provided for each comment to insure understanding and complete evaluation. Comments should be prepared using DA Form 2028 (Recommended Changes to Publications and Blank Forms) and forwarded directly to: ATCL-AO, Training Directorate, US Army Combined, Arms Support Command, 401 1st Street Fort Lee, VA 23801-1511.

CONTENTS

INTRODUCTION, v

Supplementary Requirements, v
Credit Hours, v

LESSON 1: MILITARY PUBLICATIONS, 1

Military Publications Language, 1

Commonly Used Terms, 1
Other Military Terms, 2

Administrative Publications, 2

Army Regulations, 2
Department of the Army Pamphlets, 2
Series Numbers, 2

Technical and Supply Publications, 3

Series Numbers, 3
Equipment Technical Manuals, 3
General Subject Technical Manuals, 4
Supply Bulletins, 4
Technical Bulletins, 4
Supply Catalogs, 5
Warnings, Cautions, and Notes, 6

Field Manuals, 7

Department of Defense Standardization Publications, 7

Miscellaneous Publications, 7

Army Materiel Command Regulations, 8
Ammunition Drawings, 8
Outloading and Storage Drawings, 8
TARIFF No. BOE-6000-E, 8

Frequently Used Publications, 14

TM 9-1300-206, 14
DOD Consolidated Ammunition Catalog, 16
TM 38-250, 17
SB 742-1, 18

REVIEW EXERCISES, 21

MM3667

LESSON 2: PREPARING AN AMMUNITION SURVEILLANCE INSPECTION REPORT, 23

Ammunition Surveillance Inspection Report, 23

Filling Out the ASIR, 23

Descriptive Data Section, 23

Conditions Encountered Section, 28

REVIEW EXERCISE, 33

LESSON 3: PREPARING AND POSTING DA FORM 3022-R AND MAINTAINING DD FORM 1650, 36

Preparing and Posting DA Form 3022-R, 36

Maintaining DD Form 1650, 40

REVIEW EXERCISES, 45

LESSON 4: MAKING A CONDITION CODE CHANGE, 51

Making a Condition Code Change Using DA Form 3151-R, 51

Making a Condition Code Change Using DA Form 2064, 55

Finalizing DA Form 3151-R, 56

Making a Condition Code Change Using DA Form 4508, 56

REVIEW EXERCISES, 62

EXERCISE SOLUTIONS, 75

INTRODUCTION

As an ammunition inspector, you must know the general requirements and procedures for preparing, posting, and maintaining ammunition inspection records. You must know the sources of information required by and available to an ammunition inspector. You must be able to prepare an Ammunition Surveillance Inspection Report (ASIR), prepare and post DA Form 3022-R (Army Depot Surveillance Record), and maintain DD Form 1650 (Ammunition Data Card). You must be able to fill out a DA Form 3151-R (Ammunition Stores Slip) and post the information required on DA Form 2064 (Document Register). You must also be able to make a condition code change using DA Form 4508 (Ammunition Transfer Record). All of these procedures are covered in the four lessons of this subcourse.

Supplementary Requirements

There are no supplementary requirements in material or personnel for this subcourse. You will need only this book and will work without supervision.

Credit Hours

Seven credit hours will be awarded for the successful completion of this subcourse—a score of at least 70 on the end-of-subcourse examination.

MM3667

***** IMPORTANT NOTICE *****

**THE PASSING SCORE FOR ALL ACCP MATERIAL IS NOW 70%.
PLEASE DISREGARD ALL REFERENCES TO THE 75% REQUIREMENT.**

Lesson 1 MILITARY PUBLICATIONS

One of the most important things you can learn as an ammunition inspector is how to use the military publications that are available to you as resources effectively. It is impossible to memorize every piece of information about the ammunition field; but if you know where to find the answers and how to use the resources available to you, you should be able to do anything required of you in your job.

Objectives: When you have completed this lesson, you should be able to go to the correct Army publication for the information you need to perform your duties as an ammunition inspector. You should also be able to identify the different letters and numbers used in various Army publications.

Conditions: You will have this subcourse book and will work without supervision.

Standard: You must score at least 70 on the end-of-subcourse examination that covers this lesson and lessons 2, 3, and 4 (answer 26 of the 35 questions correctly).

MILITARY PUBLICATIONS LANGUAGE

Commonly Used Terms

Some commonly used terms you will be seeing when you are using military publications are: basic publication, change, revision, superseded, and rescinded.

Basic Publication. A basic publication is an original publication as it is first printed, without any changes.

Change. A change is a separate publication containing corrections, additions, or deletions to portions of a previously issued publication. A vertical black line indicates the specific items that have been changed on each page. When you receive a change, post it to the publication by taking out the old pages and replacing them with the pages from the change.

Revision. A revision is a completely new edition of a publication. It replaces the previous edition and incorporates all previous changes as part of the new publication.

Superseded Publication. A superseded publication is one that has been replaced with a new publication. Specific chapters, paragraphs, figures, or appendices can also be superseded.

Rescinded Publication. A publication, or any portion of a publication, is rescinded when the information it contains becomes obsolete.

MM3667, Lesson 1

Other Military Terms

There are several resources you can go to when you run across a specific military term you do not understand. Three of the main resources available to you are AR 310-25, AR 310-50, and MIL-STD 444.

AR 310-25. This publication, the *Dictionary of United States Army Terms*, provides authorized definitions of terms that are used throughout the Army.

AR 310-50. AR 310-50 is the *Authorized Abbreviations and Brevity Codes*. This publication prescribes authorized abbreviations and brevity codes and procedures for their use throughout Department of the Army. This Army regulation is now on microfiche.

MIL-STD 444. The title of this publication is *Nomenclature and Definitions in the Ammunition Area*. It establishes uniform definitions for ammunition items. Use it if you find an unfamiliar ammunition-related term in a military publication.

ADMINISTRATIVE PUBLICATIONS

Administrative publications deal with administrative procedures that are used throughout the Army. There are two types of administrative publications, Army regulations (AR) and Department of the Army pamphlets (DA Pam).

Army Regulations

Army regulations outline the missions, responsibilities, and administrative procedures necessary to insure uniform compliance with policies throughout the Army. In other words, they tell you how things should be, how to get them that way, and how to keep them that way. Army regulations may be published bound, in loose-leaf format, or on microfiche.

Department of the Army Pamphlets

Department of the Army pamphlets contain informational, instructional, or reference material of a continuing nature pertaining to administrative matters. Their format is similar to that of an Army regulation.

Series Numbers

Administrative publications are assigned a series number in accordance with table 2-1 of AR 310-2. Some of the series numbers most often encountered in the ammunition field are listed below.

Series	Title
1	<i>Administration</i>
55	<i>Transportation and Travel</i>
75	<i>Explosives</i>
310	<i>Military Publications</i>
385	<i>Safety</i>

600	<i>Personnel</i>
700	<i>Logistics</i>
702	<i>Product Assurance</i>
740	<i>Storage and Supply Activities</i>
742	<i>Inspection of Supplies and Equipment</i>
725	<i>Requisition and Issue of Supplies and Equipment</i>
750	<i>Maintenance of Supplies and Equipment</i>

Department of the Army pamphlets in the 310 series (*Military Publications*) provide an index of all current Department of the Army publications. Some of these publications will prove useful to you in your career as an ammunition inspector. DA Pam 310-1, *Consolidated Index of Army Publications and Blank Forms*, lists all current Army regulations, Department of the Army pamphlets, Department of Defense publications, and blank forms.

TECHNICAL AND SUPPLY PUBLICATIONS

Technical and supply publications consist of equipment technical manuals, general subject technical manuals, supply bulletins, technical bulletins, and supply catalogs. The numbering systems for these publications have no relationship to the series numbers used for administrative publications.

Series Numbers

The basic series numbers assigned to technical and supply publications (except for supply catalogs) are listed below. Series 9, *Ordnance*, is the most commonly used series in the ammunition field.

Series	Title
1	<i>Aviation</i>
3	<i>Chemical</i>
5	<i>Engineers</i>
6	<i>Field Artillery</i>
7	<i>Infantry</i>
9	<i>Ordnance</i>
17	<i>Armor</i>
23	<i>Weapons</i>
38	<i>Logistics Management</i>
39	<i>Special Weapons</i>
43	<i>Maintenance</i>
44	<i>Air Defense Artillery</i>
55	<i>Transportation</i>

Equipment Technical Manuals

Equipment technical manuals (TM) contain instructions on the installation, operation, maintenance, and repair parts support of specific items of materials or groups of related equipment. They also contain related technical information

and procedures that you will be using when you inspect ammunition items or when you ship and store munitions.

Equipment technical manuals are numbered with a basic series number, the FSC assigned to the equipment in the manual, up to four digits identifying that particular manual, and two digits indicating the category of maintenance to which the manual applies. Each group of digits is set apart with hyphens. An example is: TM 9-1345-201-30.

The numbers given to the different categories of maintenance are:

Number	Category
10	<i>Operator crew</i>
20	<i>Organizational</i>
30	<i>Direct support</i>
40	<i>General support</i>

If an equipment technical manual is applicable to more than one level of maintenance, the first digit indicates the lowest level and the second digit the highest. For example, -24 indicates that the technical manual is applicable to organizational, direct support, and general support categories of maintenance. A two-digit maintenance code category that ends in "P" indicates that the technical manual is a parts manual.

Take another look at a complete number assigned to an equipment technical manual—TM 9-1345-201-30, for example. "TM" stands for technical manual, "9" is the series number, "1345" is the FSC for land mines, "201" is the manual identifying number, and "30" indicates direct support as the category of maintenance.

General Subject Technical Manuals

General subject technical manuals are numbered in the same manner as equipment technical manuals, except that a subnumber is assigned for further identification within the series. For example, the general subject technical manual *Military Chemistry and Chemical Agents* is assigned the number 3-215. The "3" is the basic series number identification. The "215" is the subnumber identifier. If TM 3-215 were published in more than one volume, a suffix (-1, -2, -3, etc.) would be added to the end of the sequence.

Supply Bulletins

Supply bulletins (SB) contain information pertaining to the mission objectives of supply operations. They are numbered according to the classification of the subject matter with a basic series number from either table 2-1 or table 2-2 of AR 310-2. A subnumber follows to distinguish the supply bulletin from other bulletins on the same subject. SB 742-1, *Ammunition Surveillance Procedures*, is one source of information that will be very valuable to you in your job.

Technical Bulletins

Technical bulletins (TB) contain technical information pertaining to specific weapons, equipment, and professional techniques, as well as general subjects.

Equipment Technical Bulletins. Equipment technical bulletins are numbered in the same manner as equipment technical manuals. In TB 9-1005-226-12, for example, "9" is the series number, "1005" is the FSC number, "226" is the bulletin identifier, and "12" is the category of maintenance. If there is more than one bulletin on a specific item or piece of equipment, there will be an added number in the series; for example, TB 9-1005-226-12-2.

General Subject Technical Bulletins. General subject technical bulletins are assigned a basic number similar to those used for general subject technical manuals.

Supply Catalogs

Supply catalogs are issued for use throughout the Federal government to keep track of the huge inventory of supply commodities. A unique numbering system divides this supply inventory into Federal supply groups (FSG) and then subdivides them into additional Federal supply classification (FSC) groups by code and number. See the chart below for the breakdown of this numbering system.

BREAKDOWN CHART	
FEDERAL SUPPLY GROUP (FSG) 13= ammunition.	13
FEDERAL SUPPLY CLASSIFICATION (FSC) 20= ammunition over 125mm.	1320
COUNTRY CODE (CC) 00= USA.(USA codes are 00 and 01.)	-00
NATIONAL ITEM IDENTIFICATION NUMBER (NIIN) 00-892-4201 = propellant charge, 175mm.	-00-892-4201
NATIONAL STOCK NUMBER (NSN) Complete NSN (13 digits) consists of the FSC (4 digits) and the NIIN (9 digits).	1320-00-892-4201
DEPARTMENT OF DEFENSE IDENTIFICATION CODE (DODIC) D361= additional 4 digits used with ammunition NSNs.	-D361
NSN AND DODIC NUMBER	1320-00-892-4201-D361
DEPARTMENT OF DEFENSE AMMUNITION CODE (DODAC) 1320-D361 indicates interchangeability of ammunition items. (All items with the same DODAC may be used in the same weapon for the same purpose.)	1320 -D361

Supply catalogs (SC) are issued for each FSG in the supply inventory. For example, the current catalog for ammunition items is the *DOD Consolidated Ammunition Catalog*. It is divided into eight parts as shown below:

Part	Title
I	Introduction
II	NSN Index
III	Item Name Index
IV	DODIC Index
V	Identification Data
VI	Management Data
VII	Packaging
VIII	Storage/Transportation Data

MM3667, Lesson 1

This catalog is available only on microfiche but may be special ordered for a fee. It replaced SC 1305/30IL and SC 1340/98IL.

Two Federal supply groups that will be of interest to you as an ammunition inspector are FSG 13, *Ammunition and Explosives*, and FSG 81, *Containers, Packaging, and Packing Supplies*.

Warnings, Cautions, and Notes

As an ammunition inspector, you must pay special attention to the warnings, cautions, and notes in technical publications. Warnings and cautions will appear just before the text to which they apply. Notes usually follow the text.

Every technical manual, technical bulletin, or supply bulletin that contains warnings or cautions will include a warning page inside the front cover or in the preliminary pages of the publication.

Warnings. These are instructions that you must follow to avoid the injury or death of personnel. You will find warnings in publications dealing with explosives, chemicals, and test procedures involving high voltage. An example is shown below.

WARNING

Do not attempt to remove foil instruction plate in initiator ports. When instruction plate is punctured or signs exist of damaged pellet charge assembly (under instruction plate), cover damaged port with tape and reject the propulsion section. Rocket motor igniter pyrotechnic pellets and particles can ignite the rocket motor if entrapped in initiator port during initiator or port plug installation.

Cautions. These are instructions that you must follow to avoid damaging or destroying equipment. For example, certain test procedures require that cable connections be made in a very specific order. An example of a caution is shown below.

CAUTION

When performing step 1, take care to avoid pulling on the wires of the connecting harness.

Notes. These are brief statements that emphasize particular operating procedures. An example is shown.

NOTE

Make certain that a hoisting device capable of lifting 6,000 pounds is used to install the rocket motor on the rocket motor cluster truck.

FIELD MANUALS

Field manuals (FM) contain military doctrine, tactics, and techniques. They may also contain instructional, informational, and reference material pertinent to military training and operations.

Field manuals are assigned a series number and an identifying subnumber. The series number indicates the subject matter. The subnumber distinguishes from other field manuals on the same basic subject. An ammunition inspector might use FM 9-38, *Conventional Ammunition Unit Operations*, or FM 23-30, *Grenades and Pyrotechnic Signals*.

**DEPARTMENT OF DEFENSE
STANDARDIZATION PUBLICATIONS**

There are two kinds of Department of Defense standardization publications, military specifications and military standards. Military specifications (MIL-SPECS) cover military items or commercial items that must meet military requirements. Military standards (MIL-STDS) are developed by the military services to establish engineering and technical limitations and applications for materials, processes, methods, designs, and engineering practices. Military standards are frequently used as reference sources for the inspection of ammunition and related materials.

Military specifications are numbered with a three-part symbol, each part separated by a hyphen; for example, MIL-A-2550. "MIL" indicates it is a military specification, "A" represents the first letter in the item nomenclature, and "2550" is a unique specification identification number.

Military standards are identified by the letters MIL-STD followed by a hyphen and an identifying number. One that you will be using, for example, is MIL-STD-129H, *Marking for Shipment and Storage*. "MIL-STD" means military standard, "129" is the identifying number, and "H" indicates the eighth revision of the basic military standard. (The basic standard before revisions was numbered "MIL-STD-129"; the first revision was indicated by "A," the second by "B," and so on.)

MISCELLANEOUS PUBLICATIONS

There are several other sources of information that do not fall into any of the categories covered so far. These are Army Materiel Command regulations (AMCR), ammunition drawings, outloading and storage drawings, and TARIFF No. BOE-6000-E.

REV NO: 1 APPROVED BY
 BUREAU OF EXPLOSIVES
M. P. Miller
 SUPERVISOR, MILITARY & INTERMODAL SERVICES
 DATE: 5/8/80

LANCE

LOADING AND BRACING (TL & LTL) IN
 CLOSED OR OPEN TOP VAN TRAILERS
 OF CONTROL SURFACE, M30 PACKED IN
 THE M596 CONTAINER, OR A PLYWOOD
 CONTAINER, AND THE M29 PACKED IN
 THE M597 CONTAINER (PALLETIZED AND
 UNPALLETIZED)

INDEX

ITEM	PAGE (S)
GENERAL NOTES, AND MATERIAL SPECIFICATIONS	2
CONTAINER AND PALLETIZED UNIT DETAILS	3
36-UNIT LOAD IN A 40'-0" LONG TRAILER (PALLETIZED)	4, 5
42-UNIT LOAD IN A 40'-0" LONG TRAILER (PALLETIZED)	6, 7
TYPICAL LTL (PALLETIZED)	9, 10
140-UNIT LOAD IN A 40'-0" LONG TRAILER (UNPALLETIZED)	12, 13
126-UNIT LOAD IN A 40'-0" LONG TRAILER (UNPALLETIZED)	14, 15
TYPICAL LTL (UNPALLETIZED)	16, 17
36-UNIT LOAD IN A 40'-0" LONG TRAILER (PALLETIZED) (MECHANICAL)	22, 23
42-UNIT LOAD IN A 40'-0" LONG TRAILER (PALLETIZED) (MECHANICAL)	24, 25
TYPICAL LTL (PALLETIZED) (MECHANICAL)	27
107-UNIT LOAD IN A 40'-0" LONG TRAILER (UNPALLETIZED) (MECHANICAL)	28, 29
126-UNIT LOAD IN A 40'-0" LONG TRAILER (UNPALLETIZED) (MECHANICAL)	30, 31
TYPICAL LTL (UNPALLETIZED) (MECHANICAL)	32
DETAILS	8, 11, 18, 19, 20, 21, 26

THIS DOCUMENT INCLUDES PROCEDURES FOR CONVENTIONAL TYPE TRAILERS AND FOR TRAILERS EQUIPPED WITH MECHANICAL BRACING DEVICES AS APPROVED BY THE BUREAU OF EXPLOSIVES, ASSOCIATION OF AMERICAN RAILROADS.

CAUTION:

PROCEDURES SHOWN FOR MECHANICAL BRACING DEVICE EQUIPPED TRAILERS ARE ONLY APPLICABLE FOR HIGHWAY MOVEMENT; NOT FOR CONTAINER/TRAILER-ON-FLAT-CAR MOVEMENTS.

THIS DRAWING, INCLUDING REVISION NUMBER 1, SUPERSEDES DRAWING 19-48-5921-GM11A138, DATED JUNE 1971.

REVISIONS				DATE	BY	CHECKED
1	JAN 80	<i>William J. Hoguen</i>				

APPROVED BY ORDER OF COMMANDING GENERAL, U.S. ARMY BATTERY, DEVELOPMENT AND PROGRESS COMMAND (BARCOM)
John L. Boyd
 U.S. ARMY DEFENSE ACQUISITION CENTER AND SCHOOL

U.S. ARMY DARCOM DRAWING

MAY 1980

CLASS	DIVISION	DRAWING	FILE
19	48	5921	GM IILCI

DO NOT SCALE

PROJECT: GM 623-70

Figure 1-2. Outloading Drawing.

MM3667, Lesson 1

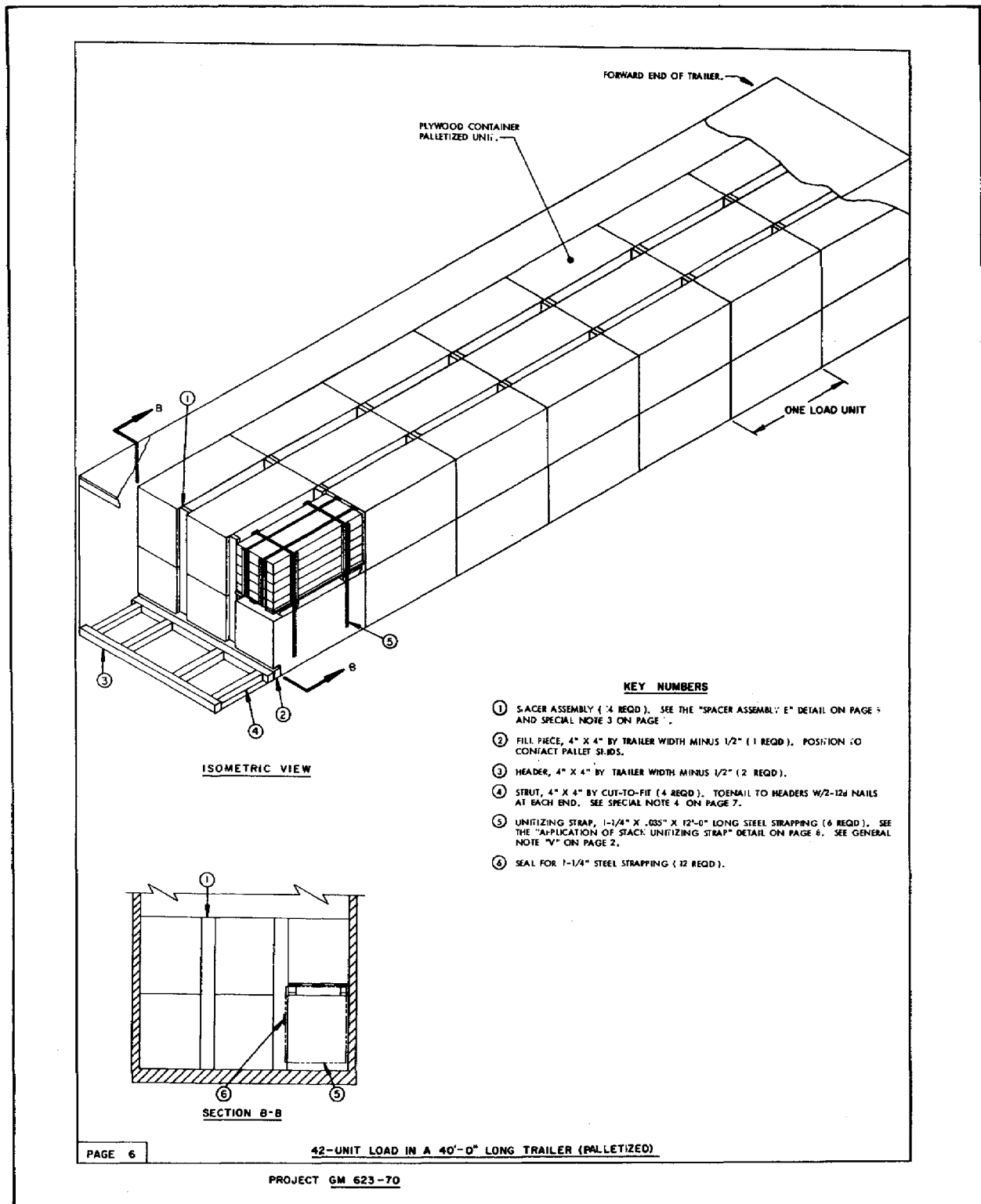


Figure 1-2. Outloading Drawing-continued.

STORAGE IN APPROVED MAGAZINES OF 155MM SEPARATE LOADING PROJECTILES, UNITIZED 8 ROUNDS PER 13-1/2" L X 27" W X 31-1/2" H PALLET UNIT

INDEX

ITEM	PAGE(S)
GENERAL NOTES, AND MATERIAL SPECIFICATIONS	2
DETAILS	3
STORAGE PROCEDURES (EARTH-COVERED MAGAZINES):	
80', 60' AND 40' L X 26'-0" W X 12'-9" H IGLOO MAGAZINES	4, 5
80' AND 40' L X 25' W X 10' H ARCH TYPE MAGAZINES (IGLOO)	6, 7
80' AND 40' L X 25' W X 11' H ARCH TYPE MAGAZINES (IGLOO)	8, 9
80' AND 40' L X 25' W X 12'-1-3/4" H ARCH TYPE MAGAZINES (IGLOO)	10, 11
81'-2" L X 26'-0" W X 12'-1-3/4" H ARCH TYPE MAGAZINE (IGLOO)	12, 13
80' L X 25' W X 14'-4" H STRADLEY AND 89' L X 24'-10" W X 14'-4" H OVAL ARCH MAGAZINES	14, 15
52" DIA CORBETTA MAGAZINE	16, 17
100' L X 50' W RECTANGULAR MAGAZINE	18, 19
TYPICAL MULTIPLE-LOT STORAGE PROCEDURES:	
IGLOO AND ARCH TYPE MAGAZINES	20, 21
STRADLEY AND OVAL ARCH TYPE MAGAZINES	22, 23
CORBETTA MAGAZINE	24, 25
RECTANGULAR MAGAZINE	26
STORAGE PROCEDURES (STANDARD ABOVE-GROUND MAGAZINES):	
METHOD OF MEASURING STACK SPACING	27
217' L X 50' W STANDARD MAGAZINE	28, 29
237' L X 50' W STANDARD MAGAZINE	30, 31

● HEIGHT OF UNIT MAY VARY SLIGHTLY, HOWEVER, PROCEDURES SPECIFIED HEREIN WILL APPLY.

THIS DRAWING SUPERSEDES DRAWING 19-48-4102-1-2-14PE 1001, DATED APRIL 1973, AS PERTAINS TO STORAGE PROCEDURES FOR 155MM, 8/PALLET SEPARATE LOADING PROJECTILES.

DO NOT SCALE

REVISIONS			

DESIGNED BY <i>RSW/DAK</i>	DRAWN BY <i>WJP/LEW</i>		
CHECKED BY <i>RSW/DAK</i>	APP. BY <i>John Byrd</i>		
APPROVED, U. S. ARMY ARMAMENT MATERIAL READINESS COMMAND			
<i>Barbara Kester</i>			
APPROVED BY HEAD OF COMMANDING GENERAL, U. S. ARMY MATERIEL DEVELOPMENT AND READINESS COM/LEO/16ARCOM			
<i>A. E. Hinger</i>			
MATERIEL CENTER			
U. S. ARMY DARCOM DRAWING			
SEPTEMBER 1978			
CLASS	DIVISION	DRAWING	FILE
19	48	4102/1	1-2-3-4-14 22 PE 1001

PROJECT FSA 1161-70

Figure 1-3. Storage Drawing.

MM3667, Lesson 1

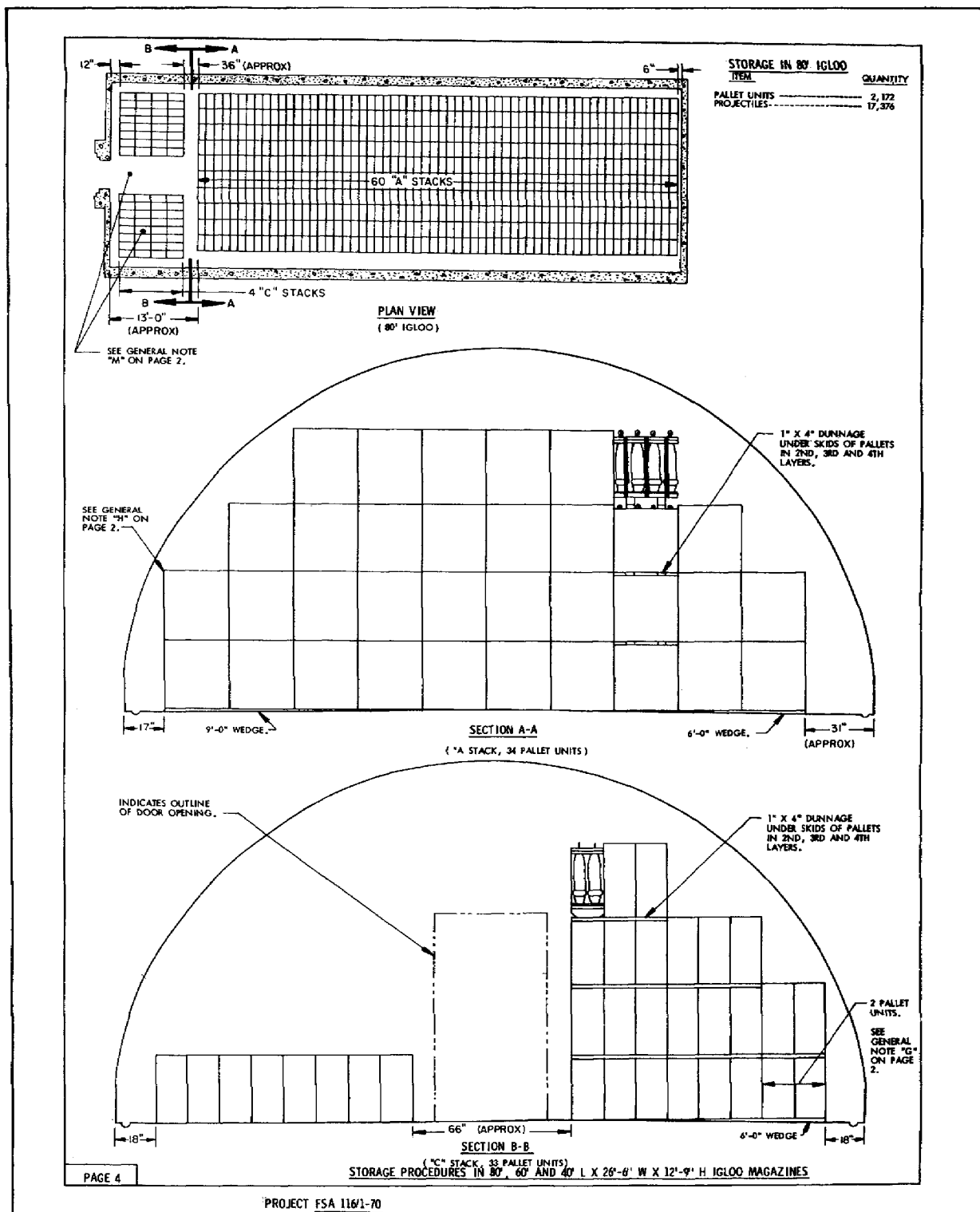


Figure 1-3. Storage Drawing-continued.

You will be using TARIFF No. BOE-6000-E when you inspect loaded vehicles or railcars that will be traveling over public routes. When the safety of civilians is involved, the rules contained in TARIFF No. BOE-6000-E takes precedence over military regulations.

TARIFF No. BOE-6000-E also tells you what placards must be posted on vehicles and railcars used to transport hazardous materials over public routes and what labels must be applied to individual containers or pallets. For the placards and labels used, see figure 1-4.

TARIFF No. BOE-6000-E can also be used to determine the compatibility of munitions. The Segregation and Separation Chart of Hazardous Materials (for transporting by public highway) (figure 1-5) shows which items may be loaded, transported, and stored together under Department of Transportation regulations. The letter X at the junction of a vertical and horizontal column shows that the items in those columns cannot be loaded, transported, or stored together. As you can see in the extract, detonators and detonating primers cannot be loaded, transported, or stored with explosive projectiles.

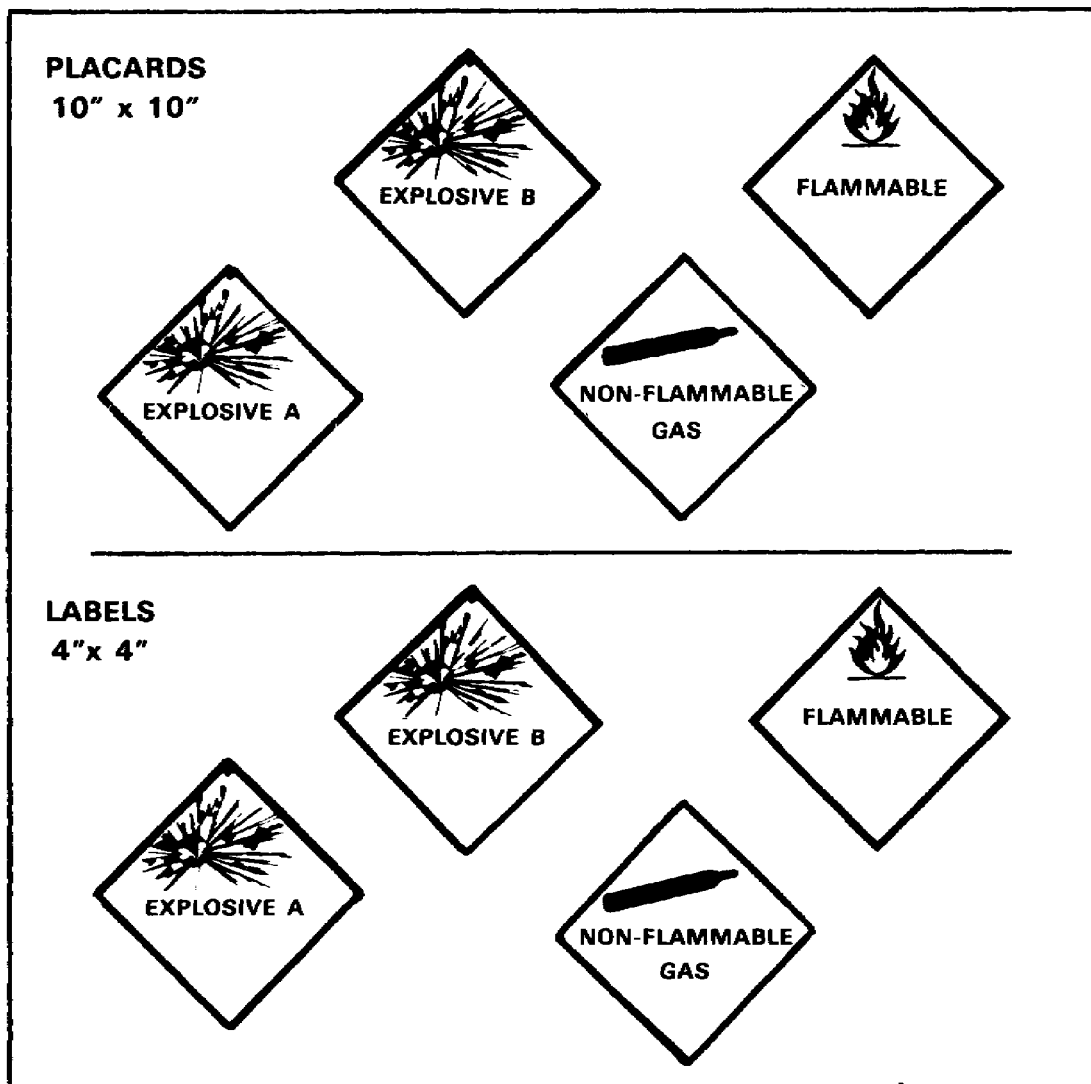


Figure 1-4. Placards and Labels Used During Transportation of Hazardous Materials.

Segregation and Separation Chart of Hazardous Materials

Footnotes

1. Except as prescribed in §173.81(c) or 177.835(g) loading and transportation of detonators or detonating primers with materials named in rows b, c, e, f, 3, 8a or 10 is prohibited.
2. Corrosive liquids must not be loaded above or adjacent to flammable solids, oxidizing materials, ammunition for cannon with or without projectiles or propellant explosives, except that shipper's loading carload shipments of corrosive liquids and flammable solids or oxidizing materials packages and who have obtained prior approval from the Department may load such materials together when it is known that the mixture of contents would not cause a dangerous evolution of heat or gas.
3. Explosives, class A, and explosives, class B must not be loaded or stored with chemical ammunition containing incendiary charges or white phosphorus either with or without bursting charges.
4. Bursting (explosive), boosters (explosive), or supplementary charges (explosive) without detonators when shipped by, to, or for the Departments of the Army, Navy, and Air Force of the United States Government may be loaded with any of the articles named except those in columns c, d, 3, 9, 11, 12, 13, 14, 15 and 16.
5. Does not include ammonium nitrate, fertilizer grade, which may be loaded, transported, or stored with high explosives, or with detonators containing no more than 1 gram of explosive each, excluding ignition and delay charges.
6. Normal uranium, depleted uranium, and thorium metal in solid form may also be loaded and transported with articles named in columns a, b, c, d, e, f, and g.

Instructions

The letter X at an intersection shows that these materials must not be loaded or stored together. Example: Detonating fuzes class A, with or without radioactive components, (g), must not be loaded or stored with high explosives or propellant explosives, (b).

OTHER HAZARDOUS MATERIALS	CLASS B EXPLOSIVES	Proprietary rocket starter			
		Fireworks, special			
		Small arms ammunition			
		Primers for cannon or black powder igniters, grenades, primed, combat caps, explosive cable			
		Percussion fuzes, tracer fuzes or			
		Time, combination or detonating fuzes			
		Detonators, detonating primers			
		Safety squibs, fuse lighters, fuse igniters, igniters, electric squibs, instantaneous fuse cord			
		Detonating cord			
		Fireworks, common			
		Blasting agents, n. o. s., or ammonium nitrate-fuel oil mixture; blasting agent label			
		Flammable liquids or flammable gases; flammable liquid or flammable gas label	11		
		Flammable solids; flammable solid label. Oxidizer; oxidizer label. Organic peroxide; organic peroxide label	12		
		Corrosive liquids; corrosive label	13	2X	
		Nonflammable gases; N. F. G. label	14		
		Poisonous gases or liquids in tank car tanks, cylinders, projectiles or bombs; poison gas labels	15	X	X
	Radioactive materials, radioactive label	16			

Figure 1-5. Extract of TARIFF No. BOE-6000-E, Segregation and Separation Chart of Hazardous Materials, page 369.

May 1985

369

§ 177.848

Chart

Instructions

The letter X at an intersection shows that these materials must not be loaded or stored together. Example: Detonating fuzes class A, with or without radioactive components, (g), must not be loaded or stored with high explosives or propellant explosives, (b).

		CLASS A EXPLOSIVES				CLASS B EXPLOSIVES				CLASS C EXPLOSIVES			
		a				b				c			
Low explosives or black powder													
High explosives, propellant explosives or detonating cord													
Initiating or priming explosives. Wet: Diazodinitrophenol fulminate of mercury, guanyl nitrosamino guanlydene hydrazine, lead azide, lead styphnate nitro mannite, nitroguanidine, pentaerythrite tetranitrate, tetrazene, lead mononitrososulfonate.										X X			
Detonators, detonating primers										1X 1X			
Ammunition for cannon with explosive projectiles, gas projectiles, smoke projectiles, incendiary projectiles, illuminating projectiles, ammunition for small arms with explosive projectiles, incendiary projectiles, rocket ammunition with explosive projectiles, gas projectiles, smoke projectiles, incendiary projectiles, illuminating projectiles, boosters (explosive), bursters (explosive), and supplementary charges (explosive) without detonators. 3/ 4/						1X X							
Explosive projectiles: bombs; torpedoes; mines; rifle or hand grenades (explosive); jet thrust units (jato), igniters jet thrust, rocket motors, igniters rocket motor. 3/						1X X							
Detonating fuzes, class A, with or without radioactive components		X X								X X			
Ammunition for cannon with empty, inert-loaded or solid projectiles, or without projectiles; or rocket ammunition with empty projectiles, inert-loaded or solid projectiles or without projectiles.										X			
Propellant explosives, jet thrust units (jato), igniters jet thrust, rocket motors, rocket engines (liquid), igniters, rocket motor, starter cartridges.										X			
Fireworks, special or railway torpedoes:						X X X				1X X X X			
Small arms ammunition, or cartridges, practice ammunition.										X			
Primers for cannon or small arms, empty cartridge bags—black powder igniters, empty cartridge cases, primed empty grenades, primed, combination primers or percussion caps, toy caps, explosive cable cutters, explosive rivets										X			
Percussion fuzes, tracer fuzes or tracers										X			
Time, combination or detonating fuzes.										X			
Detonators, detonating primers		1X				1X 1X				1X 1X			
Safety squibs, fuse lighters, fuse igniters, delay electric igniters, electric squibs, instantaneous fuse or igniter cord.										X			
Detonating cord.		1X				X X				1X X			
Fireworks, common						X X X				X X X X			
Heating agents, n. o. s., or ammonium nitrate-fuel oil lure; blasting agent label.		1X				X				1X X			
Flammable liquids or flammable gases; flammable liquid big gas label.						X X X				X X X X			
Flammable solid label, or label, I; organic peroxide label.						X X X				X X X X			
Toxic label.		2X				2X 2X				X X X X			
G. label.						X X X				X X X X			
Risk car tanks, cylinders, labels.		X X X X				X X X X				X X X X			
						6X 6X				6X 6X 6X 6X			

Figure 1-5. Extract of TARIFF No. BOE-6000-E, Segregation and Separation Chart of Hazardous Materials, page 369. Continued

FREQUENTLY USED PUBLICATIONS

TM 9-1300-206

TM 9-1300-206, *Ammunition and Explosive Standards*, is a publication you will be using frequently during inspections. It deals with safety in activities involving ammunition and explosives. It contains quantity-distance (QD) requirements. These precautions protect people and property in the territory adjacent to military establishments and reduce to a minimum the possibility of an explosion involving large amounts of explosives and ammunition.

TM 9-1300-206 also contains QD tables. In order to use these tables, you must first know what kind of ammunition is involved and what hazard class that ammunition falls into. Chapter 5 of TM 9-1300-206 contains tables for each hazard class and division (see figure 1-6) and lists the items within each class and division by nomenclature. Ammunition items are assigned to specific hazard class divisions according to the degree of danger they would present in the event of an accident (mass detonation, moderate fire, etc.).

Table 5-21. Summary of Quantity-Distance Classifications and Compatibility Groups

Item	Store compatibility group	Quantity-distance class
Adapter booster	D	1.1
Aluminum powder (in original shipping container or equivalent).	L	1.4
Aluminum powder (not in original shipping container or equivalent).	L	1.3
Ammonium nitrate (in original shipping container or equivalent).	L ⁷	1.4
Ammonium nitrate (not in original shipping containers or equivalent) exposed to fire hazards only or to detonation hazards at more than intraline distance.	L ⁷	1.3
Ammonium nitrate (not in original shipping containers or equivalent) exposed to detonations hazards at less than intraline distance.	L ⁷	1.1
Ammonium perchlorate (particle size 15 microns or less).	L ⁷	1.1
Ammonium perchlorate (particle size over 15 microns) in original shipping containers or equivalent.	L ⁷	1.4
Ammonium perchlorate (particle sizes over 15 microns) not in original shipping containers or equivalent, exposed to fire hazards only or exposed to detonation hazards at more than intraline distance.	L ⁷	1.3
Ammonium perchlorate (particle sizes over 15 microns) not in original shipping containers or equivalent, exposed to detonation hazards at less than intraline distance.	D	1.1
Ammonium picrate (Explosive D)	D	1.1
Ammunition, blank and saluting, cannon	C	1.3
Ammunition, small arms, less than .50 caliber, except .30 caliber API	S	1.4
Ammunition, .50 caliber, except API and incendiary rounds.	C	1.4
Ammunition, .30 and .50 caliber API and incendiary	G	1.4
Ammunition, 20mm, HE, HEI and functional packs containing HE and HEI	E	(04) 1.2
Ammunition, 20mm, practice and high pressure test	C	1.4
Ammunition, 20mm, incendiary and functional packs containing incendiary, except those containing HE or HEI	G	(04) 1.2
Ammunition, 20mm, API	G	1.4
Ammunition, 25mm, with inert projectile	C	1.4
Ammunition, 27mm, caseless	C	1.4

See notes at end of table.

Figure 1-6. Extract of TM 9-1300-206, Chapter 5, Table 5-21, Page 5-33.

Each division corresponds with a QD class (see figure 1-7). Hazard class 1, division 1, is QD class 1.1. Hazard class 1, division 2, is QD class 1.2, etc. Once you know an item's QD class, you can find out what its particular QD requirements are by using the QD tables for each hazard class.

Table 5-4. Class 1.1 Quantity-Distance Inhabited Buildings and Public Traffic Routes

Pounds of explosives		Distance in feet ²	
(Over)	(Not over)	Inhabited building	Public traffic route
0	1	40	25
1	2	50	30
2	5	70	40
5	10	90	55
10	20	110	65
20	30	125	75
30	40	140	85
40	50	150	90
50	100	190	115
100	200	235	140
200	300	270	160
300	400	295	175
400	500	320	190
500	600	340	205
600	700	355	215
700	800	375	225
800	900	390	235
900	1000	400	240
1000	1500	460	275
1500	2000	505	305
2000	3000	580	350
3000	4000	635	380
4000	5000	685	410
5000	6000	730	440
6000	7000	770	460
7000	8000	800	480
8000	9000	835	500
9000	10,000	865	520
10,000	15,000	990	595
15,000	20,000	1090	655
20,000	25,000	1170	700
25,000	30,000	1245	745
30,000	35,000	1310	785
35,000	40,000	1370	820
40,000	45,000	1425	855
45,000	50,000	1475	885
50,000	55,000	1520	910
55,000	60,000	1565	940
60,000	65,000	1610	965
65,000	70,000	1650	990
70,000	75,000	1685	1010
75,000	80,000	1725	1035
80,000	85,000	1760	1055
85,000	90,000	1795	1075
90,000	95,000	1825	1095
95,000	100,000	1855	1115
100,000	125,000	2115	1270
125,000	150,000	2350	1410
150,000	175,000	2565	1540
175,000	200,000	2770	1660
200,000	225,000	2965	1780
225,000	250,000	3150	1890
250,000	275,000	3250	1950
275,000	300,000	3345	2005
300,000	325,000	3440	2065
325,000	350,000	3525	2115
350,000	375,000	3605	2165

Figure 1-7. Extract of TM 9-1300-206, Table 5-4, Page 5-17.

MM3667, Lesson 1

DOD Consolidated Ammunition Catalog

The *DOD Consolidated Ammunition Catalog* is easy to use; every item listed has an assigned index number. You will use Part VII-Packaging of the catalog (see figure 1-8), as it contains the net explosive weight (NEW) per item, the number of items per container or pallet, and the shipping weight per container or pallet.

For example, if you need to find the explosive weight per package of an item with the NSN 1375-00-756-1864-M131, you must first refer to Part II-NSN Index (figure 1-8) to find the index number for that NSN. All NSNs are listed in numerical sequence but not by DODIC. Look down the listing until you find 1375-00-756-1864. The next column to the right shows the DODIC; in this example, M131. The next column to the right gives you the index number of 11176. Remember, this index number is used throughout the remaining parts of the catalog.

Refer now to Part VII-Packaging. You will find the index numbers in the first column, listed in numerical sequence. Look down the listing until you find index number 11176. To the right under the NSN column is the NSN 1375-00-756-1864. Under the Item NEW column you find that the NEW per item is .0026800 and under the Qty Per Ship Cont column you find that 3,600 items are packaged in one container. Therefore, the NEW per package is 9.648.

PART VII										PART II		
INDEX NO.	NSN	PACKAGE REF NO.	ITEM NEW TRANS STORAGE W/F-S/B	QTY PER SHIP CONT	SM1 CONT WT	SM2	SM3	SM4	SM5	NSN	DODIC MALC/LARC	INDEX NO.
	1375-00-728-5941		2.000000	20	52.5	17.63				1375-00-707-3044	M056	11166
	1375-00-728-5941	K8876128		20	52.5	17.63				1375-00-724-7040	M023	11167
11170	1375-00-728-7762		.5216	6	80.8					1375-00-724-9613	M591	11168
11171	1375-00-729-4375	K8825215		200	62.0	24.50				1375-00-728-5941	M024	11169
11172	1375-00-729-4378	K8825215		200	62.0	24.50	13.00	11.00		1375-00-728-7762	M022	11170
11173	1375-00-729-4632									1375-00-729-4375	M448	11171
11174	1375-00-736-0855									1375-00-729-4378	M450	11172
11175	1375-00-752-7745	K8797610		3	121.0	25.50	18.38	19.25		1375-00-729-4632	M444	11173
11176	1375-00-756-1864		.0026800	3600	25.0	20.00	9.88	8.38		1375-00-736-0855	M445	11174
	1375-00-756-1864		.0026800	3600	25.0	20.00	9.88	8.38		1375-00-752-7745	M445	11175
	1375-00-756-1864		.0026800	3600	25.0	20.00	9.88	8.38		1375-00-756-1864	M131	11176

Figure 1-8. Extract of DOD Consolidated Ammunition Catalog, Part II, Fiche 001, and Part VII, Fiche 003.

TM 38-250

TM 38-250, *Preparation of Hazardous Materials for Air Shipment*, is another publication you will use frequently. You should have it with you when you inspect ammunition prepared for shipment by military aircraft. It contains valuable information about labeling requirements, instructions to the pilot, and requirements for packaging and marking.

To find the packaging and marking requirements for a specific item, you must first determine the shipping name of the item and then find the shipping name in table 4-1 of the manual (figure 1-9), which lists them all alphabetically. It will tell you the specific paragraph you should turn to. For example, table 4-1 of TM 38-250 tells you to go to paragraph 5-23 for information regarding smoke grenades. In that paragraph, you will find such data as the type of containers required and the maximum allowable gross weight of those containers.

4-140 AFR 71-4(C4)/TM 38-250(C4)/NAVSUP PUB 505(CH-4)/
MCO P4030.19D(CH-4)/DLAM 4145.3(CH-4) 6 November 1981

Table 4-1. Continued.

Hazardous materials descriptions and proper shipping names	Hazard class	Identification number	Label(s) required (if not excepted)	Packaging Paragraph	L/S Group
SMALL ARMS AMMUNITION	Class C explosive		None	5-53	11
+ SMALL ARMS AMMUNITION, IRRITATING (tear gas) cartridge	Class C explosive		Irritant	5-53	11
• SMALL ARMS PRIMER	Class C explosive		None	5-18	12
• SMOKE CANDLE	Class C explosive		Explosive C	5-23	16
+ Smoke generator. See CHEMICAL AMMUNITION, NONEXPLOSIVE (containing a Poison A, Poison B, or irritating material, as appropriate)					
• SMOKE GRENADE	Class C explosive		Explosive C	5-23	16

5-23. Fireworks, Flares, and Signals:

Fireworks Common	<p>a. Packaging:</p> <p>(1) Common fireworks, signal flares, hand signal devices, smoke signals, smoke candles, smoke grenades, smoke pots, and Very signal cartridges, except as otherwise provided for, must be securely packed in specification containers as follows:</p> <p>(a) In wooden boxes, DOT 15A, 15B, 16A, or 19A. Gross weight of wooden boxes will not exceed 100 pounds except gross weight of 500 pounds is authorized for Very Signal cartridges only.</p>
Common Fireworks	
Hand Signal Devices	
Signal Flares	
Smoke Candles	
Smoke Grenades	
Smoke Pots	
Smoke Signals	
Very Signal Cartridges	

Figure 1-9. Extract of TM 38-250, Table 4-1, Page 4-2.

MM3667, Lesson 1

SB 742-1

SB 742-1, *Ammunition Surveillance Procedures*, provides the basic guidelines for the surveillance of ammunition by inspection and function testing. You will be referring to it quite often during your career as an ammunition inspector.

SB 742-1 provides guidelines for sample selection and distribution, describes the different types of inspections, and defines defect standards. For example, it assigns all items of conventional ammunition to four categories and establishes a periodic inspection interval for each category. As shown in the extracts in figure 1-10, AT mines fall into category X, so their periodic inspection interval is four years. This plan is based upon the expected rate of deterioration of each ammunition item.

forces at installations where AR 50-5 or AR 50-6 apply. Chapter 9 of this SB contains additional instructions.

k. Surveillance function test inspection (SFTI). Function test of ammunition will be conducted per paragraphs 3-1 through 3-3 and SB 3 series or SB 742 series publications for the specific item to be tested. The visual inspection conducted in conjunction with the preparation of function test samples may satisfy the PI required for the lot(s) tested, however, additional samples may be required.

2-4. Periodic inspection intervals.

a. The normal interval of inspection, except for stock in outside storage (see para 11-3) or industrial stock, is based on the assigned category for the item (expected rate of deterioration).

b. The normal interval of inspection for each category is given in table 2-1 below. This interval is to apply unless specified otherwise in the inspection procedures for a specific item or is adjusted according to paragraphs c through e below. Serviceable lot(s) will be transferred to condition code (CC-D) should the elapsed time since the date of the last inspection exceed the assigned interval by 6 months and will remain in CC-D until the required inspection is performed.

Table 2-1
Periodic Inspection Intervals

Category	Year
W	5
X	4
Y	3
Z	2

c. When the inspection results of a specific lot reveal progressive degradation of such degree that the lot may become unserviceable before expiration of the assigned category interval, the next inspection must be scheduled at a shorter interval based on conditions detected, storage conditions, and materiel involved.

d. The normal interval of inspection may be expanded whenever local storage conditions, climatic conditions, and previous inspections justify. A prime concern in the area of climatic conditions must be the degree of relative humidity. The QASAS in charge is responsible for determining those items and specific lots that will be placed in an expanded inspection interval status. As a minimum, adjusting an interval of inspection for specific lots/items will be based on the following criteria:

(1) Each lot being considered for expanded interval status must have had either an IRI, RI, or VI. Lots must also have had at least one PI.

(2) Data from previous inspections must indicate that no appreciable degradation has occurred.

(3) Lots will be stratified by Department of Defense Identification Code (DODIC), and any other criteria determined applicable (such as manufacturer, age, condition, storage history) and each stratum considered as a whole for possible interval expansion. This procedure is not intended to be used on a one-time basis to extend intervals on lots overdue for inspection. It is intended to identify types of ammunition that can be considered for change of category based on actual inspection history.

(4) The expanded inspection intervals will consist of an increase of 2 years for each category. A listing of strata recommended for interval expansion must be submitted to AMSMC-QAS for approval. Brief histories of lots involved and rationale for stratification must be included. This data will be used to determine if a permanent adjustment may be made to an inspection interval for a specific item.

e. For most efficient operations all similar items should be programmed during the same month of a given year's PI schedule. To establish and maintain a schedule by like items, it is permissible to vary the date of next inspection (DNIN) by decreasing the interval as much as 5 months or increasing the interval as much as 6 months (i.e., a lot due for PI in Oct 87 may be scheduled as early as May 87 or as late as Apr 88). Adjusting the schedule in this manner will have no effect on the provisions of b above.

f. Emphasis will be placed on the inspection of overdue lots placed in CC-D pending inspection. When the total workload precludes this, inspections will be scheduled to ensure that quantities of each type (NSN) materiel, particularly high-turnover items, are on-hand with a current inspection to fulfill issue requirements. For this purpose, a lot that has been inspected within the prescribed interval is considered as having a current inspection. For example, lot in category W may be issued with up to 5 years and 6 months elapsed time from the date of last inspection.

2-5. Ammunition inspection categories.

Ammunition items (except toxic chemical, nuclear, and MICOM-managed items) are separated into categories for assignment of PI intervals.

a. Category determination is based primarily on susceptibility to and rate of deterioration.

Figure 1-10. Extracts of SB 742-1, Pages 2-6, 2-7, and 2-8.

Items not listed under one of the existing categories will be reported to AMSMC-QAS and be considered as category Z until the correct category is established.

b. Data will be disseminated by message pending formal change to this bulletin. Changes in categories are effective immediately and intervals for inspections must be adjusted at time of change.

NOTE

Categories for specific items or family of items covered by a SASIP supersede guidance given for general items in this paragraph.

Item	Category	Item	Category
(1) Activators	X	(c) Chemical except WP	Z
(2) Additive Jacket	Y	(13) Boosters, all types	X
(3) Ammunition fixed and semi-fixed, 37-mm through 165-mm for guns and howitzers (see also para I-10):		(14) Burstern	Y
(a) AP (except 105-mm XM744), APERS, CAN, HE (all types), WP, TP	W	(15) Canisters, smoke	Z
(b) Blank, illuminating	Y	(16) Cartridge actuated devices (CADs)	Y
(c) Chemical, colored smoke, HC, leaflet, pyrotechnic, riot control	Z	(17) Cartridge, bomb ejection	Y
(d) 105-mm APFSDS-T M774	Annual	(18) Cartridge cases, primed:	
(4) Ammunition for mortars:		(a) Artillery	Z
(a) HE, WP, and practice w/explosive components	X	(b) Small arms	Y
(b) Practice w/o explosive	X	(19) Cartridge, delay	Y
(5) High explosives, bulk	X	(20) Cartridge, engine starter	Y
(51) Igniters, all types	Z	(21) Cartridge, ignition	Y
(52) Ignition cylinders	Z	(22) Cartridge, impulse	Y
(53) Incendiary devices, all types	Z	(23) Cartridge, photoflash	Y
(54) Increment, propellant	Y	(24) Cartridge, powder actuated	Y
(55) Inert ammunition, all types	W	(25) Charge, practice, hand grenade	Z
(56) Inert components and metal parts for ammunition items	X	(26) Chemical agent, bulk	Z
(57) Initiators for bomb fuzes	X	(27) Coupling base w/primer	Y
(58) Launcher and 35-mm cartridges CS	Z	(28) Cutters	Y
(59) Launcher and grenade, smoke M176, M226	Z	(29) Delay elements, all types, delay plungers:	
(60) Mines:		(a) Hermetically-sealed elements	Y
(a) APERS, AT, practice w/explosive components	X	(b) Not hermetically-sealed	Z
(b) Practice w/o explosive components, inert, empty	W	(30) Demolition kit, projected charge	X
(c) Chemical filled	Z	(31) Demolition block charges	X
(61) Packing materiel	W	(32) Destroyers, all types (document, cryptographic equipment, file)	Z
(62) Primers:		(63) Pyrotechnic, HE, WP, practice	X
(a) Artillery	Z	(b) Chemical, colored smoke, incendiary, riot control	Z
		(70) Shaped charges	Y
		(71) Signals	Z
		(72) Simulators	Z
		(73) Smoke pots	Z
		(74) Spotting charges	Z
		(75) Squibs	Z
		(76) Supplementary charges	X
		(77) Thermal batteries	X
		(78) Thickener	Z
		(79) Thrusters	Y
		(80) Tracers, all types	Y
		(81) Warheads, warhead sections:	
		(a) Flechette, HE, WP, practice w/explosive components	X
		(b) Practice w/o explosive components, inert	W
		(c) Chemical, colored smoke, incendiary, riot control	Z

Figure 1-10. Extracts of SB 742-1, Pages 2-6, 2-7, and 2-8--continued.

REVIEW EXERCISES

Circle the letter of the correct answer to each question.

1. You have received a copy of MIL-STD 644A, dated 3 Dec 84. It replaces MIL-STD 644, dated 22 Oct 80. How would you describe this situation?
 - a. MIL-STD-644A is a change to MIL-STD-644.
 - b. MIL-STD-644A supersedes MIL-STD-644.
 - c. MIL-STD-644A rescinds MIL-STD-644.
 - d. MIL-STD-644A deletes MIL-STD-644.

2. What are three types of technical and supply publications discussed in this lesson?
 - a. Technical manuals, supply bulletins, and technical bulletins.
 - b. Technical manuals, supply catalogs, and DA pamphlets.
 - c. Technical manuals, TARIFF No. BOE-6000-E, and technical bulletins.
 - d. Technical manuals, Army regulations, and DA pamphlets.

3. The complete number of an equipment technical manual containing information on demolition materials is TM 9-1375-213-34. What do the last two digits indicate?
 - a. Series number.
 - b. FSC.
 - c. Identifier.
 - d. Maintenance category.

4. Which of the following publications is a parts manual?
 - a. TM 9-1375-213-34 (Parts).
 - b. TM 9-1375-213-34P.
 - c. TM 9-1375-213-34.
 - d. TM 9-1375-213-34-PM.

5. What is the most commonly used series number for technical and supply publications in the ammunition inspection area?
 - a. Series 9, Ordnance.
 - b. Series 6, Field Artillery.
 - c. Series 43, Maintenance.
 - d. Series 55, Transportation.

MM3667, Lesson 1

6. What is the purpose of a caution in a technical publication?
 - a. To avoid injury to personnel.
 - b. To avoid death to personnel.
 - c. To avoid damage to equipment.
 - d. To insure right tools are used.

7. Which of the following is a national item identification number (NIIN)?
 - a. 13.
 - b. 00.
 - c. 00-892-4201.
 - d. 1320-00-892-4201.

8. You are inspecting a shipment of ammunition that will be transported over a public highway. What reference identifies the warning placards that should be posted?
 - a. SC 1305/30-IL.
 - b. TM 9-1300-206.
 - c. TARIFF No. BOE-6000-E.
 - d. TM 38-250.

9. What publication would you use to determine the hazard class and quantity-distance requirements of a specific type of ammunition?
 - a. SC 1305/30-IL.
 - b. TM 9-1300-206.
 - c. TARIFF No. BOE-6000-E.
 - d. TM 38-250.

10. When do the rules in TARIFF No. BOE-6000-E (published by Department of Transportation) take precedence over military regulations?
 - a. When the safety of military personnel is involved.
 - b. When the safety of civilians is involved.
 - c. When rail transportation is involved.
 - d. When shipments are going out of CONUS.

Recheck your answers to the Review Exercises. When you are satisfied that you have answered every question to the best of your ability, check your answers against the Exercise Solutions. If you missed three or more questions, you should retake the entire lesson, paying particular attention to the areas in which your answers were incorrect.

Lesson 2

PREPARING AN AMMUNITION SURVEILLANCE INSPECTION REPORT

The Ammunition Surveillance Inspection Report (ASIR) is used to record the results of all ammunition inspections. The information recorded on the ASIR is transferred later as a permanent record of inspection to the DA Form 3022-R (Army Depot Surveillance Record) (DSR) card. Therefore, it is very important that the entries on the ASIR are accurate.

Objective. When you have completed this lesson you should be able to prepare an ASIR correctly, using information available on DA Form 3022-R (Army Depot Surveillance Record) and DD Form 1650 (Ammunition Data Card), for a specific lot of ammunition.

Conditions. You will have this subcourse book and will work without supervision.

Standard. You must score at least 70 on the end-of-subcourse examination that covers this lesson and lessons 1, 3, and 4 (answer 26 of 35 questions correctly).

AMMUNITION SURVEILLANCE INSPECTION REPORT

The Ammunition Surveillance Inspection Report (ASIR) is an unnumbered, locally produced form. The ASIR used in this lesson (figure 2-1) is a representative example. You may find ASIRs that look a little different, but they all contain the same information.

The two major parts of an ASIR are the descriptive data section (top of the form) and the Conditions encountered section (bottom of the form).

FILLING OUT THE ASIR

Descriptive Data Section

The descriptive data section entries are made on the ASIR *before* the inspection of the items is conducted. The information needed to fill out this section of the report is found on DA Form 3022-R (Army Depot Surveillance Record) (DSR) (figure 2-2) and DD Form 1650 (Ammunition Data Card) (figure 2-3). DA Form 3022-R is prepared by the surveillance office, and the DD Form 1650 (top portion) is prepared by the manufacturer. These forms should be on file in the surveillance office prior to the inspection of the ammunition. A separate ASIR is prepared for each type of ammunition, by lot number, to be inspected. Refer to figures 2-1, 2-2, and 2-3 as you go through the form.

- *NSN/DODIC*—National Stock Number/Department of Defense Identification Code, taken from the NSN/PN block of the DSR card or from package markings; in this case, 1315-00-028-5006-C708.

MM3667, Lesson 2

AMMUNITION SURVEILLANCE INSPECTION REPORT (ASIR)

NSN/DODIC 1315-00-028-5006-C708		LOT/SERIAL NUMBER LS 600-23		DATE Current Date			
NOMENCLATURE Cartridge, 4.2-Inch Smoke, WP, M2 w/Fuze PD, M8							
DOT MARKING (SC) Ammunition for Cannon w/Smoke Projectile				DOT CLASS A			
PACKED (SC): 1/Fbr Cntr, 2 Rds/Wdn Box							
WT: 76	CU 1.1	LOAD DATE 11-1-78	EXPL WT: 0.28	STG COMP GRP & QD CLASS H(12)1.2			
NOTE: DESCRIBE IN REMARK COLUMN IF DIFFERENT FROM SUPPLY CATALOG							
F R O M	CC	QTY	LOC	T O	CC	QTY	LOC
	A	4,012	814		E	4,012	814
COMPONENTS		MODEL	LOT NUMBER	DATE (MFG)	GRADE		
Projectile		M2	COP-30206	7/60			
Fuze PD		M8	LS-501-9	6/61			
Ign Ctg		M2	FED-156				
CONDITIONS ENCOUNTERED PI Unserv CC:E Qty 4,012 LOC 814					CODE REMARKS		
Inspected 20 rounds of 10-box sample. Inspected 10 additional boxes at					Defect AQ Code: 32		
storage location. OUTER PACK: 10 out of 20 boxes with minor deterioration:					Class Code: 2		
DOT and markings correct and legible. INNER PACK: 8 out of 20 fiber					Percent Code: 5		
containers could not be opened by hand due to swelling from being wet (major).					Defect AQ Code: 31		
ITEM: No defects noted on fuze, projectile, or ignition ctg.					Class Code: 1		
CC "A" to CC "E"					Percent Code: 4		
Requires 100% inspection for unserviceable outer and inner pack. Replace							
unserviceable packs and remark condition code change on CC-8050-001.							
INSP'D BY <i>Signature</i>	REVIEWED BY	Q.A. SPEC (AMMO)		POSTED BY			

Figure 2-1. Completed Ammunition Surveillance Inspection Report (ASIR).

ARMY DEPOT SURVEILLANCE RECORD <small>For use of this form, see SB 742-1 The proponent agency is DARCOM.</small>					Name of Installation Miesau Army Depot						
NSN/PN 1315-00-028-5006-C708			Nomenclature Cartridge, 4.2-Inch Smoke WP, M2, w/Fuze PD, M8								
Lot/Serial No.	Grade	Date Mfg	Explo Wt/Pkg	Shelf Life Exp Dte	Wt/Cube	Stg Comp Grp & QD Class					
LS 600-23		11-1-78	0.28		76/1.1	H(12)1.2					
DOT Name Ammunition for Cannon w/Smoke Projectile				DOT Class A	Packed 1/Fbr Cntr, 2/Wdn Bx						
Component Nomenclature Projectile, M2 Fuze PD, M8 Ign Ctg, M2					Lot/Serial No. COP-30206 LS-501-9 FED-156						
Alt/MWO Status											
Location	Quantity	Cond Code	I L P	Location	Quantity	Cond Code	I L P	Location	Quantity	Cond Code	I L P
814	4,012	A									
DODAC/PN 1315-C708		Due Dates			Packed 1/Fbr Cntr, 2/Wdn Bx	Cond Code A	Caliber	Lot/Serial No. LS 600-23			
		Inspection	Monitor	Cal/Load Test							
RECORD OF INSPECTION											
Date	Type Inspection	Location	Conditions Encountered				Code Remarks				
12-2-84	PI	814	Inspection of 40 rounds from 20 containers. No deficiencies noted. Items to remain in CC "A." SFC Melvin <i>SFC Melvin</i>								

DA FORM 3022-R. 1 May 78

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Figure 2-2. Completed DA Form 3022-R (Army Depot Surveillance Record) (DSR).

MM3667, Lesson 2

DEPARTMENT OF DEFENSE AMMUNITION DATA CARD				Form Approved Budget Bureau No. 22-R0269		
1. ITEM NOMENCLATURE Cartridge, 4.2-Inch Smoke WP, M2, w/Fuze PD, M8		2. FSN 1315-00-028- 5006-C708		3. LOT NUMBER LS 600-23		
4. MANUFACTURING LOADING OR ASSEMBLING ACTIVITY Lone Star Army Ammunition Plant		5. NET QUANTITY 4,012		6. PACKING OF LOT 1/Fbr Cntr, 2/Wdn Bx		
7. CONTRACTOR Martin Marietta		8. CONTRACT OR ORDER NO. PRON A1-3-A0110		9. DRAWING OR REVISION 75-1-2846		
10. SPECIFICATION & REVISION MIL-P60366-1		11. DATE STARTED 10-12-78		12. DATE COMPLETED 11-1-78		
13. DATE INSPECTED 11-1-78		14. LINE 14D		15. ZONE WT SHELL None		
16. CHARGE WEIGHT 0.14		16A. INDEX OF POWDER N/A		16B. MPD IN INCHES N/A		
16C. PPDR IN INCHES N/A		16D. EXPLOSIVE WT. PER PKG 0.28		17. EXPECTED MUZZLE VELOCITY N/A		
18. EXPECTED PRESSURE N/A		19. SHELL WEIGHT 76.00		20. NUMBER OF TEST SAMPLES 10		
21. SENT TO Jefferson PG		22. DATE AND MODE OF SHIPMENT 11-4-73		C/C BTR N089-73 Plant Truck		
23. COMPONENTS (Continue on reverse, if necessary)						
COMPONENT	DRAWING NO.	MODEL	MANUFACTURER	DATE MFG.	LOT NO.	QUANTITY
Projectile	75-4-99D	M2	Lone Star AMMO	7/60	COP-30206	11,000
Fuze PD		M8		6/61	LS-501-9	10,000
Ign Ctg	75-14-449B	M2			FED-156	21,500
24. DISPOSITION Accepted			25. TYPED NAME OF GOVERNMENT INSPECTOR Malcolm Ingram			
			SIGNATURE <i>Malcolm Ingram</i>			

DD FORM 1650
1 FEB 68

23A. COMPONENTS (Continued)						
COMPONENT	DRAWING NO.	MODEL	MANUFACTURER	DATE MFG	LOT NO.	QUANTITY
26. REMARKS (Identify by appropriate symbols: *Changes in process; **Deviations from drawing or specification; ***Unusual occurrences or difficulties)						

Figure 2-3. Completed DD Form 1650 (Ammunition Data Card).

- *Lot/serial number*—lot/serial number of the ammunition taken from the Lot serial no. block of the DSR; in this case, LS 600-23. (If the item has just been received and no DSR card has been prepared, the information can be obtained from the Item nomenclature and Lot number blocks of the DD Form 1650 pertaining to the item of ammunition.)
- *Date*—current date of the inspection.
- *Nomenclature*—description of the item, found in the Nomenclature block of the DSR; in this case, Cartridge, 4.2 Inch: Smoke, WP, M2, w/Fuze, PD M8.
- *DOT marking (SC)*—Department of Transportation name, found in the DOT name block of the DSR card; in this case, Ammunition for Cannon w/Smoke Projectile.
- *DOT class*—Department of Transportation class, found in the DOT class block of the DSR card; in this case, A.
- *Packed (SC)*—method of packaging used, described in the Packing of lot block of DD Form 1650 and in the Packed block of the DSR card; in this case, 1/fbr cntr 2/fbr cntr/bx.
- *WT*—weight of the package, taken from the Wt/cube block of the DSR card; in this case, 76.
- *CU*—cube of package, taken from the Wt/cube block of the DSR card; in this case, 1.1.
- *Load Date*—the date item loading was completed, found in the Date completed block of DD Form 1650 and in the Date mfg block of the DSR card; in this case, 11/1/78.
- *Expl wt*—the net explosive weight per package, found in the Explosive wt. per pkg block of DD Form 1650 and in the Explo Wt/Pkg block of the DSR card; in this case, 0.28.
- *STG comp grp and QD class*—the storage compatibility group and quantity distance class, found on the DSR card in the stg comp grp and QD class block; in this case, H (12) 1.2.
- *CC*—condition code assigned to the lot prior to inspection (From block), found in the Condition code block of the DSR card; in this case, A. The CC for the To block is entered after the inspection has been completed.
- *Qty*—the number of items on hand in the lot prior to inspection (From block) (must be verified by stock control personnel), found in the Quantity block of the DSR card; in this case, 4,012. The Qty for the To block is entered after the inspection has been completed.
- *LOC*—the storage location of the ammunition prior to inspection (From block), taken from the Location block of the DSR card; in this case, 814. The LOC for the To block is entered after the inspection has been completed.
- *Components*—the component parts of the item, to include model number and lot number, found in the Components block of the DD Form 1650 and

MM3667, Lesson 2

the Components nomenclature block of the DSR card; in this case, Projectile, M2, COP 30206; Fuze, PD, M8, LS-501-9; Ignition Ctg, M2, FED-156.

Conditions Encountered Section

The Conditions encountered section is completed *during* the inspection as a record of inspection results. The number of samples inspected is recorded first; in this case, 20 rounds from a 10-box sample. If additional samples are inspected at the storage location, this should also be noted. In the sample, 10 additional boxes were inspected at the storage location. If any nonstandard conditions that might affect the ammunition are found at the storage location, they are also noted. There are none on the sample. The remainder of the Conditions encountered section is a record of defects, if any, found during the inspection.

- *Outer pack.* The outer pack inspection is recorded first. The sample form states that 10 out of 20 boxes showed minor deterioration. The DOT and markings are correct and legible.
- *Inner pack.* The inner pack inspection is recorded next. The sample form states that 8 out of 20 fiber containers were swollen from being wet and could not be opened by hand—a major defect.
- *Inspection results.* The next entry shows the inspection results on the item or items inspected. In the sample, no defects were noted on the fuze projectile or the ignition train.
- *Code remarks.* The code for the type of storage is entered first. Storage codes, defined in chapter 4 of AR 700-22, are listed below.

Code	Type of Storage
V	above-ground magazine
W	earth-covered magazine
X	outside covered
Y	outside uncovered

The sample ASIR shows code W.

When the inspection has been completed, the inspector evaluates the results and enters the following codes in the code remarks column: the percent code, the classification code, and the defect code.

To find the percent code, determine what percentage of the samples was defective and use the appropriate percent defective, found in table 4-2, AR 700-22 (see the extract in figure 2-4). Look in the Percent column for the percentage of samples defective. Then find the corresponding code in the Indicator column. For example, the sample ASIR (figure 2-1) indicates that 10 out of 20 of the outer packs, or 50%, showed deterioration. Find this percentage range in the Percent column. The range in this case is 45-54. This corresponds to an indicator number of 5. Code 5 is entered as the percent code for the outer pack. Eight out of 20 of the inner packs, or 40%, were defective. This is in the 35-44 percent range and corresponds to an indicator of 4. Code 4 is entered as the percent code for the inner packs.

15 October 1983	AR 700-22
Table 4-2. Assembly/Component/Packaging PERCENT DEFECTIVE	
<i>Indicator</i>	<i>Percent</i>
0.....	0
1.....	1-14
2.....	15-24
3.....	25-34
4.....	35-44
5.....	45-54
6.....	55-64
7.....	65-74
8.....	75-84
9.....	85-94
C.....	95-100

Figure 2-4. Extract of AR 700-22, Page 4-5.

To find the correct classification code, look in the classification table of AR 700-22 (see the extract in figure 2-5). Find the classification of the defect (whether it is critical, major, minor, etc.), and then enter the corresponding number as the classification code on the line above the percent code. On the sample ASIR, the deterioration of the outer pack is classified as minor, so the classification code is 2. The damage to the inner pack is classified as major, so the correct classification code is 1. The defect code consists of a defect/special remarks code, which identifies the type of defect, and an assembly/component/packaging code, which identifies the defective item. Tables for these codes appear in AR 700-22 (extracts are given in figures 2-6 and 2-7). Enter a defect code for each defect on the line above the class code.

The sample ASIR indicates that the outer pack of this item has deteriorated. The defects/special remarks code for deterioration is AQ. The assembly/component/packaging code is 32; this identifies the outer pack. Therefore, the defect code is AQ32. The inner pack has also deteriorated. The defects/special remarks code for deterioration is AQ. The assembly/component/packaging code is 31 for the inner pack. Therefore, defect code AQ31 is entered.

- **Recommendation.** Recommend a new condition code for the lot if you feel it is necessary. State what the old condition code was and what you feel the new one should be. You will not carry out an actual condition code change, however, until the chief inspector approves your recommendation.

15 October 1983	AR 700-22
Table 4-2. Assembly/Component/Packaging—Continued	
Classification	
0	Critical.
1	Major.
2	Minor.
3	Incidental.
4	Suspended—Suitable for Emergency Combat.
5	Suspended—From Issue and USE (SIU).
6	Suspended—From Issue, Movement, and Use (SIMU).
7	Restricted.
8	Special Remarks.
9	Special Remarks—Maintenance.
<p><i>Note:</i> Codes 4, 5 or 6 will be assigned and retained for each lot when suspended and will remain until lot is renovated/modified or released/restricted.</p>	

Figure 2-5. Extract of AR 700-22, Page 4-7.

Defects/Special Remarks	
<i>Indicator</i>	<i>Narrative</i>
AA	Missing.
AB	Loose.
AC	Wrong model.
AD	Wrong type.
AE	Wrong lot number.
AF	Mixed lots.
AG	Mixed models.
AH	Mixed ammunition types.
AJ	Leaking.
AK	Exuding.
AL	Agent contamination.
AM	Armed.
AN	Foreign matter.
AP	Corrosion (Verdigris).

Figure 2-6. Extract of AR 700-22, Page 4-7.

Assembly/Component/Packaging	
<i>Indicator</i>	<i>Narrative</i>
01.....	Assembly. (Complete round or item of issue.)
02.....	Fuze. (Nose fuze if item has two fuzes.)
03.....	Booster.
04.....	Bomblets.
05.....	Warheads.
06.....	Body, filled or empty (for projectile, grenade, mine, rocket, etc.)
07.....	Filler (inert, explosive, pyrotechnic compound, chemical agent).
08.....	Rotating band.
09.....	Cartridge case or cartridge case with liner.

Figure 2-7. Extract of AR 700-22, Page 4-5.

(On the sample ASIR, there is a condition code change from A to E.) If your recommendation for a change is approved, you must enter the document number of the condition code change and the document number of the material tags or labels prepared for the suspended lot as indicated on the sample ASIR. The procedures for making a condition code change are given in lesson 4.

If you have other recommendations to make, enter them in the Conditions encountered section as well. The sample ASIR indicates that the packing was found to be defective. It is recommended that 100% of the items be inspected for unserviceable outer and inner packs and that unserviceable packs be replaced and remarked.

- **Findings.** When you have completed your evaluation of the inspection results, summarize your findings on the very first line of the Conditions encountered section. First, state the type of inspection, using an abbreviation. On the sample form, the inspection was a periodic inspection, abbreviated PI. Immediately following that entry, indicate whether the items are serviceable (Serv) or unserviceable (Unserv) and give the condition code assigned to the lot as a result of the inspection. The lot of ammunition on the sample ASIR was changed from CC-A to CC-E. CC-E indicates unserviceable ammunition, so Unserv and CC-E are entered. Immediately following that entry, the quantity in the lot is entered. The quantity is found in the From block in the descriptive data section of the ASIR. On the sample, the quantity is 4,012, so Qty 4,012 is entered on the first line of the Conditions encountered section.

Next, still on the same line, enter the storage location of the lot. This information also appears in the From block of the descriptive data section of the ASIR. In this case, the location is 814; it is entered as Loc 814.

MM3667, Lesson 2

Go back next to the To block in the descriptive data section. Complete the To block by entering the condition code of the lot after inspection, the quantity in the lot, and the location of the lot. On the sample ASIR, the condition code of the lot is now E, but the quantity and location have not changed from those given in the From block.

- *Inspected by.* After completing the ASIR, review it to make sure that you have made all of the required entries and that they are correct. Then sign the ASIR in the Inspected by block.

REVIEW EXERCISE

Using the information on the DD Form 1650 in figure 2-8 and DA Form 3022-R in figure 2-9 and the additional information given below, fill out the blank ASIR in figure 2-10. (You will also need to refer back to figures 2-4, 2-5, 2-6, and 2-7.)

Additional information:

Type Inspection: PI
 Date: Present date.
 Number rounds: 1500

Inspected 20 rounds of 10-box sample.
 Inspected 10 additional boxes at storage location.

Outer Pack: No defects noted on boxes. All markings correct and legible. Banding and hardware in good condition.

Inner Pack: No defects noted on fiber containers. All markings correct and legible. Sealing tape applied correctly.

Item: Projectile - Paint in good condition and correct color. Markings correct and legible. Closing plug gasket missing on one projectile. Replaced during inspection. No defects noted on cartridge case and powder increments.

Recommend item remain in CC A.

When you are satisfied that you have completed the Review Exercise to the best of your ability, check your work against the Exercise Solutions. If you made more than six incorrect entries, retake the entire lesson paying particular attention to the areas in which your entries were incorrect.

DEPARTMENT OF DEFENSE AMMUNITION DATA CARD				Form Approved Budget Bureau No. 25-R0200		
1. ITEM NOMENCLATURE Ctg, 105mm: HE, M1, w/SUPPL CHG, W/O FUZE		2. NSN 1315-00-028-4830-C445		3. LOT NUMBER IOP 25-115		
4. MANUFACTURING LOADING OR ASSEMBLING ACTIVITY Iowa Ordnance Plant		5. NET QUANTITY 18,000		6. PACKING OF LOT 1/Fbr Cntr, 2 Cntr, 2 Rd/Wd Bx		
7. CONTRACTOR Martin Marietta		8. CONTRACT OR ORDER NO. OAP 2131-001-A		9. DRAWING OR REVISION 75-K-001-M		
10. SPECIFICATION & REVISION 75-M-022-B		11. DATE STARTED 12-3-79		12. DATE COMPLETED 2-17-80		
13. DATE INSPECTED 2-17-80		14. LINE 4		15. ZONE WT SHELL 3		
16. CHARGE WEIGHT 4.70		16A. INDEX OF POWDER		16B. MPD IN INCHES		
17. EXPECTED MUZZLE VELOCITY		18. EXPECTED PRESSURE		19. SHELL WEIGHT 37		
20. NUMBER OF TEST SAMPLES 10		21. SENT TO Yuma PG		22. DATE AND MODE OF SHIPMENT 2-20-80 Truck		
23. COMPONENTS (Continue on reverse, if necessary)						
COMPONENT	DRAWING NO.	MODEL	MANUFACTURER	DATE MFG.	LOT NO.	QUANTITY
Shell	74-3-99D	M1	Iowa Ord Plant	11-3-79	IOP 2-23	19,000
Ctg Case	75-14-550B	M14A1	Kentucky Ord Plant	9-20-79	KN 25-14	19,500
24. DISPOSITION Accepted			25. TYPED NAME OF GOVERNMENT INSPECTOR John W. Moore			
			SIGNATURE <i>John W. Moore</i>			

DD FORM 1650
1 FEB 68

Figure 2-8.

MM3667, Lesson 2

ARMY DEPOT SURVEILLANCE RECORD <small>For use of this form, see SB 742-1 The proponent agency is DARCOM.</small>						Name of Installation Miesau Army Depot					
NSN/PN 1315-00-028-4830-C445				Nomenclature Ctg,105mm: HE, M1, w/Suppl Chg, w/o Fuze							
Lot/Serial No. IOP 25-115		Grade	Date Mfg 2-17-80	Explo Wt/Pkg 9.40	Shelf Life Exp Dte	Wt/Cube 120/2.0	Stg Comp Grp & QD Class E(12)1.2				
DOT Name Ammunition for Cannon w/Explosive Projectile					DOT Class		Packed 1/Fbr Cntr, 2 Cntr, 2 Rd/Wd Bx				
Component Nomenclature Shell, M1 Ctg Case, M14A1						Lot/Serial No. IOP 2-23 KM 28-14					
Alt/MWO Status											
Location	Quantity	Cond Code	I L P	Location	Quantity	Cond Code	I L P	Location	Quantity	Cond Code	I L P
B-14	1,500	A									
DODAC/PN 1315-C445		Due Dates			Packed	Cond Code	Caliber	Lot/Serial No.			
		Inspection	Monitor	Cal/Load Test	1Fbr Cntr, 2 Cntr, 2Rd, Wd Box	A		IOP 25-115			
RECORD OF INSPECTION											
Date	Type Inspection	Location	Conditions Encountered					Code Remarks			

DA FORM 3022-R. 1 May 78

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Figure 2-9.

FOR INSTRUCTIONAL PURPOSES ONLY
AMMUNITION SURVEILLANCE INSPECTION REPORT (ASIR)

NSN/DODIC		LOT/SERIAL NUMBER			DATE				
NOMENCLATURE:									
DOT MARKING (SC):					DOT CLASS				
PACKED (SC):									
WT:	CU:	LOAD DATE:	EXPL WT:	STG COMP GRP & QD CLASS					
NOTE: DESCRIBE IN REMARK COLUMN IF DIFFERENT FROM SUPPLY CATALOG									
F R O M	CC	QTY	LOC		T O	CC	QTY	LOC	
COMPONENTS	MODEL	LOT NUMBER	DATE (MFG)	GRADE					
INSP'D BY	REVIEWED BY	O.A. SPEC (AMMO)		POSTED BY					

Figure 2-10.

MM3667, Lesson 3

Lesson 3 PREPARING AND POSTING DA FORM 3022-R AND MAINTAINING DD FORM 1650

The duties you have to perform as an ammunition inspector may include preparing and posting DA Form 3022-R (Army Depot Surveillance Record) and maintaining DD Form 1650 (Ammunition Data Card). Those are the procedures covered in this lesson.

Objectives. When you have completed this lesson you should be able to prepare and post DA Form 3022-R and maintain DD Form 1650.

Conditions. You will have this subcourse book and will work without supervision.

Standard. You must score at least 70 on the end-of-subcourse examination that covers this lesson and lessons 1, 2, and 4 (answer 26 of 35 questions correctly).

PREPARING AND POSTING DA FORM 3022-R

The information needed to prepare and post a DA Form 3022-R (figure 3-1) is taken from a completed ASIR (figure 3-2) for the item of ammunition. In some situations, DD Form 1650 (Ammunition Data Card) might be used instead. Beginning with the top portion of DA Form 3022-R, the following items are filled in:

- *Name of installation*—the preparer's unit; in this case, 696 Ord Co.
- *NSN/PN*—from the NSN/DODIC block on the ASIR; in this case, 1320-00-529-7331-D544.
- *Nomenclature*—from the Nomenclature block on the ASIR; in this case, Projectile, 155mm: HE, M107.
- *Lot/serial no.*—from the Lot/serial no. block of the ASIR; in this case, LOW 32-61.
- *Grade.* Leave blank; not applicable.
- *Date mfg*—from the Load date block of the ASIR; in this case, 1-11-78.
- *Explo wt pkg*—from the Expl wt block of the ASIR; in this case, 119 Plt.
- *Shelf life expdte.* Leave blank; does not apply to projectiles.
- *Wt/cube*—from the Wt and Cu blocks of the ASIR; in this case, 797/6.8.
- *Stg comp grp and QD class*—from the Stg comp grp and QD class block of the ASIR; in this case, D(18)1.1.
- *DOT name*—from the DOT marking (SC) block of the ASIR; in this case, Explosive Projectile.

ARMY DEPOT SURVEILLANCE RECORD <small>For use of this form, see SB 742-1 The proponent agency is DARCOM.</small>								Name of Installation 696 Ord Co				
NSN/PN 1320-00-529-7331-D544				Nomenclature Projectile, 155mm; HE, M107								
Lot/Serial No. LOW 32-61		Grade	Date Mfg 1-11-78	Explo Wt/Pkg 119 PIt	Shelf Life Exp Dte		Wt/Cube 797/6.8	Stg Comp Grp & QD Class D(18)1.1				
DOT Name Explosive Projectile					DOT Class A		Packed 8/pallet					
Component Nomenclature Liner Shell Suppl Chg						Lot/Serial No. HAR 1 NOR 8-1 LOW 2-73						
Alt/MWO Status												
Location	Quantity	Cond Code	I L P	Location	Quantity	Cond Code	I L P	Location	Quantity	Cond Code	I L P	
E14	728	A										
DODAC/PN 1320-D544		Due Dates Inspection 20 Apr 88			Monitor	Cal/Load Test	Packed 8/pallet	Cond Code A	Caliber	Lot/Serial No. LOW 32-61		
RECORD OF INSPECTION												
Date	Type Inspection	Location	Conditions Encountered					Code Remarks				
20 Apr 83	RI	E14	Inspected 24 projectiles of a 3-pallet sample. Inspected 17 additional pallets at storage location. OUTER PACK: Pallet - No defects noted. Markings correct and legible. Banding - No defects noted. ITEM: Projectile - Markings correct and legible. Lifting plug - No defects noted. Fuze well - One projectile had minor rust on threads. Suppl Chg and spacer - No defects noted. Rotating band and grommets - No defects noted. SFC Melvin <i>SFC Melvin</i>									

DA FORM 3022-R. 1 May 78

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Figure 3-1. Completed DA Form 3022-R (Army Depot Surveillance Record).

MM3667, Lesson 3

AMMUNITION SURVEILLANCE INSPECTION REPORT (ASIR)

NSN/DODIC 1320-00-529-7331-D544		LOT/SERIAL NUMBER LOW 32-61		DATE 20 April 1983			
NOMENCLATURE Projectile, 155mm: HE, M107							
DOT MARKING (SC) Explosive Projectile				DOT CLASS A			
PACKED (SC): 8/Pallet							
WT: 797	CU: 6.8	LOAD DATE 1/11/78	EXPL WT: 119	STG COMP GRP & QD CLASS D(18)1.1			
NOTE: DESCRIBE IN REMARK COLUMN IF DIFFERENT FROM SUPPLY CATALOG							
F R O M	CC	QTY	LOC	T O	CC	QTY	LOC
	A	728	E14		A	728	E14
COMPONENTS		MODEL	LOT NUMBER	DATE (MFG)	GRADE		
Liner			HAR 1	1972			
Shell		107	NOR 8-1	1973			
Suppl Chg			LOW 2-73	1973			
CONDITIONS ENCOUNTERED RI CC: A QTY: 278 LOC: E14						CODE REMARKS	
Inspected 24 projectiles of a 3-pallet sample. Inspected 17 additional							
pallets at storage location.							
OUTER PACK: Pallet - No defects noted. Markings correct and legible.							
Banding - No defects noted.							
ITEM: Projectile - Markings correct and legible. Lifting plug - No							
defects noted. Fuze well - One projectile had minor rust on threads.							
Suppl Chg and spacer - No defects noted. Rotating band and grommets - No							
defects noted.							
INSP'D BY		REVIEWED BY	Q.A. SPEC (AMMO)	POSTED BY			

Figure 3-2. Completed ASIR.

- *DOT class*—from the DOT class block of the ASIR; in this case, A.
- *Packed*—from the Packed (SC) block of the ASIR; in this case, 8/pallet.
- *Component nomenclature*—from the Components block of the ASIR; in this case, Liner, Shell, Suppl Chg.
- *Lot/serial no.*—from the Lot number block of the ASIR; in this case, HAR-1, NOR 8-1, LOW 2-73.
- *Alt/MWO status*. Leave blank; does not apply because maintenance work order is not prepared.
- *Location*—from the Loc block of the ASIR; in this case, E14.
- *Quantity*—from the Qty block of the ASIR; in this case, 728. Always check with the stock control section for the correct quantity on hand.
- *Cond code*—from the CC block of the ASIR; in this case, A.
- *ILP*—International Logistics Program. Leave blank; does not apply.

The Location, Quantity, Cond code, and ILP columns are repeated to allow for posting of additional changes.

- *DODAC/PN*—the first four digits and the last four digits from the NSN/DODIC block of the ASIR; in this case, 1320-D544.
- *Due dates inspection*. To determine the inspection date, you must know the ammunition category. This information is listed in section V of SB 742-1 (see the extract in figure 3-3). The category for the ammunition on the ASIR is Projectile, 155mm: HE, M107, w/suppl chg is category W. In section V of SB 742-1, the inspection interval for category W is five years. The date of the inspection shown on the ASIR is 20 Apr 83. Since 20 Apr 83 plus five years equals 20 Apr 88, this is the date entered in the Inspection block.

- a. Category W.*
- (1) Bombs, HE, unfuzed.
 - (2) Projectiles, Separate loading, HE and WP, unfuzed, excluding Projectile 8 inch, M424.
 - (3) Packing materiel.
 - (4) Inert ammunition, all types.
 - (5) Fixed and semifixed ammunition, except chemical illuminating, mortar, and recoilless rifle ammunition.
 - (6) Fixed and semifixed WP loaded ammunition.
 - (7) Small arms ammunition.
 - (8) Fuzes, all types, except fuzes with black power time train rings or unsealed black power delay elements, in hermetically sealed containers.
 - (9) Detonating cord in hermetically sealed containers.

Figure 3-3. Extract of SB 742-1, Section V, Page 2-13.

MM3667, Lesson 3

- *Due dates monitor.* Leave blank; used only at depot.
- *Due dates cal/load test.* Leave blank. This item is not calibrated or load tested.
- *Packed*—same as previous packed block entry; in this case, 8/pallet.
- *Cond code*—same as previous cond code block entry; in this case A. If defects were found, the condition code would change.
- *Caliber*—leave blank. Ammunition is millimeter, not caliber.
- *Lot/serial no.*—same as previous lot/serial no. entry; in this case LOW 32-61.
- *Date*—from the Date block of the ASIR; in this case, 20 Apr 83.
- *Type inspection*—from the first line of the Conditions encountered section of the ASIR; in this case, RI.
- *Location*—the last entry on the first line of the Conditions encountered section of the ASIR; in this case, E14.
- *Conditions encountered*—the information in the rest of the Conditions encountered section of the ASIR, reproduced *exactly*.
- *Code remarks*—defect code, class code, and percent code remarks; in this case, no defects were noted.

When you have completed DA Form 3022-R, sign it below the last entry in the Conditions encountered block and file it according to local policy.

MAINTAINING DD FORM 1650

DD Form 1650 (figure 3-4) is used as a record of ammunition and explosive materiel, and contains descriptive data pertaining to one lot of an item of ammunition. The form is filled out originally by the manufacturer of the ammunition. It is kept on file in the surveillance office but you are responsible for maintaining the form.

When a lot of ammunition or explosive material is changed or renovated, the DD Form 1650 for the lot must be updated by completing a new form. To do this, you use the information given in the Conditions encountered section of the ASIR for the ammunition.

The sample ASIR (figure 3-5) indicates conditions that call for changes to be made on the sample DD Form 1650 (figure 3-4). The changes that follow are made on the new DD Form 1650 (figure 3-6).

- *Item nomenclature.* The ASIR indicates that the renovation of the item consisted of modifying it from an M52B10 to an M525 configuration. This block is changed to show: Cartridge, 81mm: HE, M43A1 w/fuze, PD M525.
- *FSN.* Since the item nomenclature changed, this block is changed to read: 1315-00-555-4478-C225.

DEPARTMENT OF DEFENSE AMMUNITION DATA CARD				Form Approved Budget Bureau No. 22-R0269		
1. ITEM NOMENCLATURE Cartridge, 81mm: HE, M43A1 w/Fuze,PD,M52B10		2. FSN 1315-00-028-0469-C225		3. LOT NUMBER KOP 9-165-C		
4. MANUFACTURING LOADING OR ASSEMBLING ACTIVITY Kansas Ordnance Plant		5. NET QUANTITY 1,946		6. PACKING OF LOT 1/Fbr Cntr, 4/Wdn Bx		
7. CONTRACTOR KOP	8. CONTRACT OR ORDER NO.	9. DRAWING OR REVISION 75-1-88 Rev 6		10. SPECIFICATION & REVISION MIL-S-16307 Oct 1980		
11. DATE STARTED 30 Jan 82	12. DATE COMPLETED 31 Mar 82	13. DATE INSPECTED 30 Mar 82		14. LINE C	15. ZONE WT SHELL	
16. CHARGE WEIGHT 661 grains RAD38342	16A. INDEX OF POWDER	16B. MPD IN INCHES		16C. PPDR IN INCHES		
16D. EXPLOSIVE WT. PER PKG 4.92	17. EXPECTED MUZZLE VELOCITY 704 FPS	18. EXPECTED PRESSURE 4750 PSI		19. SHELL WEIGHT 7.15		
20. NUMBER OF TEST SAMPLES	21. SENT TO	22. DATE AND MODE OF SHIPMENT				
23. COMPONENTS (Continue on reverse, if necessary)						
COMPONENT Shell, HE Fuze, PD	DRAWING NO. 75-2-261C20 73-1-161A2	MODEL M43A1B1 M52B10	MANUFACTURER Mullins Mfg Co IOP (body)	DATE MFG. 1981 1981	LOT NO. MUA-7-4, -7-5 IOP 38-439 38-440	QUANTITY
24. DISPOSITION Provisoinally accepted			25. TYPED NAME OF GOVERNMENT INSPECTOR Casey Jones			
			SIGNATURE			

DD FORM 1650
1 FEB 68

23A. COMPONENTS (Continued)						
COMPONENT	DRAWING NO.	MODEL	MANUFACTURER	DATE MFG	LOT NO.	QUANTITY
Fin Assembly	75-2-26A22	M3	Scheible Co	1982	SC-2-71	
Primer, Perc	74-2-51A9	M34	Milan Arsenal	1981	-2-81	
Ctg Ignition	75-19-79G4	M8	Federal Lab Inc	1981	Ma-2-223	
Bursting Charge TNT Flake	75-14-192B4	Grade 1	Kankakee Ord	1981	FLI-1-65 KNK-2-2001	
Increment Prop	71-12-15A5	M1A1	Radford Arsenal	1981	-2-2006	
Increment Holder	71-12-19D3	M2A1	Walsh Mfg Co	1980	RAD-38-342 WMC-1-36	
26. REMARKS (Identify by appropriate symbols: *Changes in process; **Deviations from drawing or specification; ***Unusual occurrences or difficulties)						

Figure 3-4. Completed DD Form 1650 (Ammunition Data Card).

MM3667, Lesson 3

AMMUNITION SURVEILLANCE INSPECTION REPORT (ASIR)

NSN/DODIC 1315-00-555-4478-C225		LOT/SERIAL NUMBER RHN 500-1		DATE 6 Feb 83	
NOMENCLATURE Cartridge, 81mm: HE, M43A1 w/Fuze, PD M525					
DOT MARKING (SC) Ammunition for Cannon w/Explosive Projectile				DOT CLASS A	
PACKED (SC): 1/Fbr Cntr, 4 Cntr 4 Rds/Wdn Bx					
WT 50	CU 1.0	LOAD DATE:	EXPL WT: 4.92	STG COMP GRP & QD CLASS E(08)1.2	
NOTE: DESCRIBE IN REMARK COLUMN IF DIFFERENT FROM SUPPLY CATALOG					
F	CC	QTY	LOC		
R	A	1,946		T	
O				O	
M					
COMPONENTS	MODEL	LOT NUMBER	DATE (MFG)	GRADE	
CONDITIONS ENCOUNTERED					CODE REMARKS
1,946 Rds, Lot KOP 9-165C renovated at U.S. Army Depot, Miesau, Germany. The					
lot number changed from KOP 9-165C to RHN 500-1. Renovation consisted of					
modifying M52B10 fuze to M525 configuration. Head assembly was removed and					
replaced by T336E7 head assembly, Lot Number REX 5-3, drawing number C880019,					
date of mfg 1982. New head assemblies were repositioned and surveillance					
verification performed. The NSN changed from 1315-00-028-0469-C225 to					
1315-00-555-4478-C-225. Authorization for renovation, Ltr, SMUAD-RE,					
1st Ind, 18 December 1982. Renovation certified by Casey Jones, Ammo					
Inspector (Supv). Date started, 5 Feb 83; date completed, 6 Feb 83.					
INSP D BY	REVIEWED BY	Q.A. SPEC (AMMO)	POSTED BY		

Figure 3-5. Completed ASIR.

DEPARTMENT OF DEFENSE AMMUNITION DATA CARD				Form Approved Budget Bureau No. 22-R0269		
1. ITEM NOMENCLATURE Cartridge, 8mm: HE M43A1 w/Fuze, PD, M525		2. FSN 1315-00-555-4478-(C225)		3. LOT NUMBER RHN-500-1		
4. MANUFACTURING LOADING OR ASSEMBLING ACTIVITY US Army Depot, Miesau, Germany		5. NET QUANTITY 1,946		6. PACKING OF LOT 1/Fbr Cntr, 4/Wdn Bx		
7. CONTRACTOR US Army Depot, Miesau, Ger	8. CONTRACT OR ORDER NO.	9. DRAWING OR REVISION 75-1-88 Rev 6	10. SPECIFICATION & REVISION MIL-S-16307, Oct 1980			
11. DATE STARTED 5 Feb 83	12. DATE COMPLETED 6 Feb 83	13. DATE INSPECTED 6 Feb 83	14. LINE C	15. ZONE WT SHELL		
16. CHARGE WEIGHT 661 grains RAD38342	16A. INDEX OF POWDER	16B. MPD IN INCHES	16C. PPDR IN INCHES			
18D. EXPLOSIVE WT. PER PKG 4.92	17. EXPECTED MUZZLE VELOCITY 704 FPS	18. EXPECTED PRESSURE 4750 PSI	19. SHELL WEIGHT 7.15			
20. NUMBER OF TEST SAMPLES		21. SENT TO		22. DATE AND MODE OF SHIPMENT		
23. COMPONENTS (Continue on reverse, if necessary)						
COMPONENT Shell, HE Fuze, PD	DRAWING NO. 75-2-261C20 73-1-161A2	MODEL M43A1B1 M525	MANUFACTURER Mullins Mfg Co IOP (body)	DATE MFG. 1981 1981	LOT NO. MUA-7-4, -7-5 IOP-38-489 -38-440	QUANTITY
24. DISPOSITION Provisionally Accepted			25. TYPED NAME OF GOVERNMENT INSPECTOR Casey Jones			
			SIGNATURE			

DD FORM 1650
1 FEB 68

23A. COMPONENTS (Continued)						
COMPONENT	DRAWING NO.	MODEL	MANUFACTURER	DATE MFG	LOT NO.	QUANTITY
Head Assembly	C880019	T336E7	REX 5-3	1982	REX 5-3	
Fin Assembly	75-2-26A22	M3	Scheible Co	1982	SC-2-71-2-81	
Primer, Perc	74-2-51A9	M34	Milan Arsenal	1981	MA-2-223	
Ctg Ignition	75-19-79G4	M8	Federal Lab Inc	1981	FLI-1-65	
Bursting Charge TNT Flake	75-14-192B4	Grade 1	Kankakee Ord	1981	KNK-2-2001-2-2006	
Increment Prop	71-12-15A5	M1A1	Radford Arsenal	1981	RAD-38-342	
Increment Holder	71-12-19D3	M2A1	Walsh Mfg Co.	1980	WMC-1-36	

26. REMARKS (Identify by appropriate symbols: *Changes in process; **Deviations from drawing or specification; ***Unusual occurrences or difficulties)

1946 rds. Lot KOP 9-165C renovated at U.S. Army Depot, Miesau, Germany. The lot number changed from KOP 9-165C to RHN 500-1. Renovation consisted of modifying M52B10 fuze to M525 configuration. Head assembly was removed and replaced by T336E7 head assembly, Lot number REX 5-3, drawing number C880019, date of mfg 1982. New head assemblies were repositioned and surveillance verification performed. The NSN changed from 1315-00-028-0469-C225 to 1315-00-555-4478-C-225. Authorization for renovation, Ltr, SMUAD-RE, 1st Ind, 18 Dec 82. Renovation certified by Casey Jones, Ammo Inspector (Supv). Date started, 5 Feb 83; date completed, 6 Feb 83.

Figure 3-6. Completed DD Form 1650.

MM3667, Lesson 3

- *Lot number.* Change this block to read: RHN 500-1.
- *Manufacturing loading or assembling activity.* The ASIR shows that the item was renovated at US Army Depot, Miesau, Germany. Change this block to show US Army Depot, Miesau, Germany.
- *Contractor.* Change this block to show: US Army Depot, Miesau, Germany.
- *Net quantity.* The ASIR shows that 1,946 rounds were renovated. In this case, the number did not change. If the number had been different, the new number would be posted.
- *Date started.* Use the date shown on the ASIR; in this case, 5 Feb 83.
- *Date completed.* Use the date shown on the ASIR; in this case, 6 Feb 83.
- *Date inspected.* Use the date the ASIR was prepared; in this case, 6 Feb 83.
- *Components (continued) (block 23A).* The ASIR indicates that the head assembly was removed and replaced by T336E7 head assembly and that the entry in the Lot number block is REX 5-3, the Drawing number block entry is C880019, and the Date mfg block entry is 1982. Add this information to block 23a. In some cases, the ASIR will list changes in the components of an item, thus changing the descriptive data information listed beside the component item on the DD Form 1650.
- *Remarks.* Enter the remarks information shown in the Conditions encountered section of the ASIR *exactly*. When all the required new information has been entered on the new DD Form 1650, copy all of the unchanged information from the old DD Form 1650 to the new DD Form 1650. Review the new form to see that it is complete and accurate. Attach the old DD Form 1650 to the new one and forward both forms to the chief inspector.

REVIEW EXERCISES

1. Use the completed ASIR in figure 3-7 to fill out the blank DA Form 3022-R in figure 3-8.
2. Use the completed ASIR in figure 3-9 and the DD Form 1650 in figure 3-10 to fill out a new DD Form 1650 in figure 3-11.

When you are satisfied that you have completed the Review Exercises to the best of your ability, check your work against the Exercise Solutions. If you made more than 15 incorrect entries, retake the entire lesson paying particular attention to the areas in which your entries were incorrect.

MM3667, Lesson 3

AMMUNITION SURVEILLANCE INSPECTION REPORT (ASIR)

NSN/DODIC 1320-00-028-4375-D676		LOT/SERIAL NUMBER KOP 28 92		DATE Present Date			
NOMENCLATURE Charge, Propelling, 8-Inch, M2, White Bag							
DOT MARKING (SC) Propellant Explosive (Solid) Class B				DOT CLASS B			
PACKED (SC): 1/Mtl Cntr							
WT: 51	CU: 1.6	LOAD DATE: 8-25-79	EXPL WT 28.813	STG COMP GRP & QD CLASS C 1.3			
NOTE: DESCRIBE IN REMARK COLUMN IF DIFFERENT FROM SUPPLY CATALOG							
F R O M	CC	QTY	LOC	T O	CC	QTY	LOC
	A	2,000	A-16		A	2,000	A-16
COMPONENTS		MODEL	LOT NUMBER	DATE (MFG)	GRADE		
Propellant		M125	ROP 16-217				
Primer		MR2A4	KN 20-4				
Increment bags		M2	OAP 6-220				
CONDITIONS ENCOUNTERED PI 2,000 rds CC:A					CODE REMARKS		
Inspected 20 propelling charges of a 20-container sample.							
OUTER PACK: Paint in good condition. Markings correct and legible.							
Performed air test on 20 metal containers. One container failed air test due to container cover gasket broken. Replaced during inspection.							
ITEM: Propelling charge: No defects noted. Markings correct and legible.							
No discoloration noted on increment bags. Recommend item remain in CC:A							
INSP'D BY		REVIEWED BY	Q.A. SPEC (AMMO)	POSTED BY			

Figure 3-7.

FOR INSTRUCTIONAL PURPOSES ONLY

ARMY DEPOT SURVEILLANCE RECORD										Name of Installation	
For use of this form, see SB 742-1 The proponent agency is DARCOM.											
NSN/PN				Nomenclature							
Lot/Serial No.		Grade	Date Mfg		Explo Wt/Pkg		Shelf Life Exp Dte		Wt/Cube	Stg Comp Grp & QD Class	
DOT Name						DOT Class		Packed			
Component Nomenclature								Lot/Serial No.			
Alt/MWO Status											
Location	Quantity	Cond Code	I L P	Location	Quantity	Cond Code	I L P	Location	Quantity	Cond Code	I L P
DODAC/PN		Due Dates			Packed	Cond Code	Caliber	Lot/Serial No.			
		Inspection	Monitor	Cal/Load Test							
RECORD OF INSPECTION											
Date	Type Inspection	Location		Conditions Encountered				Code Remarks			

DA FORM 3022-R. 1 May 76

PREVIOUS EDITION IS OBSOLETE. (Paper size 8X10 1/2" Image size 7 X 9 1/2")

Figure 3-8.

MM3667, Lesson 3

AMMUNITION SURVEILLANCE INSPECTION REPORT (ASIR)

NSN/DODIC 1320-00-529-7331-D544			LOT/SERIAL NUMBER LOW 32-61M			DATE 12-2-84		
NOMENCLATURE Projectile, 155mm: HE M107 w/Suppl Chg								
DOT MARKING (SC) Explosive Projectile						DOT CLASS A		
PACKED (SC) 8/Pallet								
WT 797 P1t		CU 6.8 P1t		LOAD DATE 12-2-84		EXPL WT 119		STG COMP GRP & OD CLASS D(18)1.1
NOTE: DESCRIBE IN REMARK COLUMN IF DIFFERENT FROM SUPPLY CATALOG								
F R O M	CC	QTY	LOC		T O	CC	QTY	LOC
	E	7,682	D651			A	7,682	D651
COMPONENTS		MODEL	LOT NUMBER	DATE (MFG)	GRADE			
CONDITIONS ENCOUNTERED							CODE REMARKS	
Items renovated. The liners and supplementary charges were replaced at								
Anniston Army Depot with Liner Drawing Number 73-50-412K, Rev J, Lot #EL-3-73,								
mfg Reynolds Aluminum, 1984.								
Charge, Supplementary Drawing #74-50-318, Rev M, Lot No. KDB6-46, mfg.								
Dupont, 1984. Renovation certified by Joe Jones, Ammo Inspector (supv).								
IAW MSG #07789, add suffix "M" to lot number. Date started 10-2-84. Date								
completed 12-2-84.								
INSP'D BY		REVIEWED BY		Q.A. SPEC (AMMO)		POSTED BY		

Figure 3-9.

DEPARTMENT OF DEFENSE AMMUNITION DATA CARD				Form Approved Budget Bureau No. 22-R0269		
1. ITEM NOMENCLATURE Proj 155mm: HE, M107 w/suppl chg		2. FSN 1320-00-529-7331-D544		3. LOT NUMBER LOW 32-61		
4. MANUFACTURING LOADING OR ASSEMBLING ACTIVITY Longhorn Army Ammo Plant		5. NET QUANTITY 7,682		6. PACKING OF LOT 8/Pallet		
7. CONTRACTOR Martin Marietta	8. CONTRACT OR ORDER NO. PRON A1-3-A0110	9. DRAWING OR REVISION 75-14-449	10. SPECIFICATION & REVISION MIL-P60366-1			
11. DATE STARTED 10-2-73	12. DATE COMPLETED 11-1-73	13. DATE INSPECTED 11-1-73	14. LINE 14D	15. ZONE WT SHELL Z		
16. CHARGE WEIGHT N/A	16A. INDEX OF POWDER N/A	16B. MPD IN INCHES N/A	16C. PPDR IN INCHES N/A			
16D. EXPLOSIVE WT. PER PKG 119	17. EXPECTED MUZZLE VELOCITY N/A	18. EXPECTED PRESSURE N/A	19. SHELL WEIGHT 92.47			
20. NUMBER OF TEST SAMPLES 10	21. SENT TO Jefferson PG	22. DATE AND MODE OF SHIPMENT 11-4-73	C/C BTR NO 89-73 Plant Truck			
23. COMPONENTS (Continue on reverse, if necessary)						
COMPONENT	DRAWING NO.	MODEL	MANUFACTURER	DATE MFG.	LOT NO.	QUANTITY
Shell	75-4-990		Norris Ind	1973	NOR-1	7,700
24. DISPOSITION			25. TYPED NAME OF GOVERNMENT INSPECTOR			
			SIGNATURE			

DD FORM 1650
1 FEB 68

23A. COMPONENTS (Continued)						
COMPONENT	DRAWING NO.	MODEL	MANUFACTURER	DATE MFG	LOT NO.	QUANTITY
Liner	75-14-468K		Harvy Alum	1973	Har-1	20,000
Spacer	75-14-468H		Harvy Alum	1971	Har-16	4,500
Chg Suppl	75-14-468A		Longhorn AAP	1973	LOW-2-73	7,840
26. REMARKS (Identify by appropriate symbols: *Changes in process; **Deviations from drawing or specification; ***Unusual occurrences or difficulties)						

Figure 3-10.

MM3667, Lesson 3

FOR INSTRUCTIONAL PURPOSES ONLY

DEPARTMENT OF DEFENSE AMMUNITION DATA CARD				Form Approved Budget Bureau No. 22-R0269		
1. ITEM NOMENCLATURE		2. FSN		3. LOT NUMBER		
4. MANUFACTURING LOADING OR ASSEMBLING ACTIVITY		5. NET QUANTITY		6. PACKING OF LOT		
7. CONTRACTOR	8. CONTRACT OR ORDER NO.	9. DRAWING OR REVISION		10. SPECIFICATION & REVISION		
11. DATE STARTED	12. DATE COMPLETED	13. DATE INSPECTED		14. LINE	15. ZONE WT SHELL	
16. CHARGE WEIGHT	16A. INDEX OF POWDER	16B. MPD IN INCHES		16C. PPDR IN INCHES		
16D-EXPLOSIVE WT. PER PKG	17. EXPECTED MUZZLE VELOCITY	18. EXPECTED PRESSURE		19. SHELL WEIGHT		
20. NUMBER OF TEST SAMPLES	21. SENT TO	22. DATE AND MODE OF SHIPMENT				
23. COMPONENTS (Continue on reverse, if necessary)						
COMPONENT	DRAWING NO.	MODEL	MANUFACTURER	DATE MFG.	LOT NO.	QUANTITY
24. DISPOSITION			25. TYPED NAME OF GOVERNMENT INSPECTOR			
			SIGNATURE			

DD FORM 1650
1 FEB 68

23A. COMPONENTS (Continued)						
COMPONENT	DRAWING NO.	MODEL	MANUFACTURER	DATE MFG	LOT NO.	QUANTITY
26. REMARKS (Identify by appropriate symbols: *Changes in process; **Deviations from drawing or specification; ***Unusual occurrences or difficulties)						

Figure 3-11.

Lesson 4 MAKING A CONDITION CODE CHANGE

An ammunition inspector is required to make condition code status changes. These changes are made after the receipt of a message initiating a condition code change to an item of ammunition presently on hand. DA Form 3151-R (Ammunition Stores Slip), DA Form 2064 (Document Register), and DA Form 4508 (Ammunition Transfer Record) are all used in the process of making a condition code change, the subject of this lesson.

Objectives. When you have completed this lesson you should be able to make a condition code change using DA Form 3151-R, DA Form 2064, and DA Form 4508.

Conditions. You will have this subcourse book and will work without supervision.

Standard. You must score at least 70 on the end-of-subcourse examination that covers this lesson and lessons 1, 2, and 3 (answer 26 of 35 questions correctly).

MAKING A CONDITION CODE CHANGE USING DA FORM 3151-R

DA Form 3151-R (figure 4-1) must be used to make condition code changes whenever one of the following types of messages is received: temporary suspension (figure 4-2), permanent suspension (figure 4-3), release from suspension (figure 4-4), and ammunition restrictions (figure 4-5).

When you receive a message initiating a change, check your files to see if the items affected are on hand physically. If they are, you will have a DA Form 3022-R already filled out showing suspension notice. See figure 4-6. You will need this form to complete DA Form 3151-R.

Refer to figures 4-1 and 4-6 as you go through DA Form 3151-R item by item.

- *Authority.* Leave blank until you have filled out DA Form 2064. When you have filled out DA Form 2064, enter combined columns a and b of that form, using a hyphen between the first four and the second four digits; in this case, 4086-0002.
- *Date*—the Julian date that you are filling out the form, in this case, 4086.
- *From.* Enter Surveillance Section.
- *Name of activity*—the name of the activity that is preparing the form; in this case, Miesau Army Depot.
- *To.* Enter Stock Control Section.
- *Vehicle no.* Enter N/A. This form is being prepared to report a condition code change. Vehicles are not involved.

MM3667, Lesson 4

AMMUNITION STORES SLIP For use of this form, see FM9-33 the proponent is United States Army Training and Doctrine Command		AUTHORITY 4086-0002		DATE: 4086			
FROM: Surveillance Section		NAME OF ACTIVITY Miesau Army Depot					
TO: Stock Control Section		VEHICLE NO. N/A					
RECEIPT <input type="checkbox"/>	ISSUE <input type="checkbox"/>	OTHER (SPECIFY) CC <input checked="" type="checkbox"/> Change		DRIVER N/A			
NSN-DODIC NOMENCLATURE	LOT NO.	ACC	LOCATION		PLTS BXS	TOTAL ROUNDS	INIT
			FROM	TO			
1315-00-926-1885-C280 Ctg, 90mm: HE-T, Comp B, M71A1	IOP 3-7	N	A21	A21	$\frac{10}{20}$	400	
REMARKS Item #1. Condition code change from CC-A to CC-N; IAW P201441Z Mar 84. Suspended from issue and use, except for emergency combat. <div style="text-align: right;">_____ Chief Inspector's Signature</div>							
DATE	SIGNATURE OF ISSUING CHECKER	DATE	SIGNATURE OF RECEIVING CHECKER				

DA FORM 3151-R
1 APR 76

REPLACES DA FORM 3151, 1 JUL 66 WHICH MAY BE USED UNTIL EXHAUSTED.

Figure 4-1. Completed DA Form 315 1-R (Ammunition Stores Slip).

- *Receipt, issue, other (specify).* Make a check mark in the Other block and enter CC to report that the form is being used for a condition code change.
- *Driver.* Enter N/A. This form is being prepared to report a condition code change. Driver is not involved.
- *NSN DODIC nomenclature*—from the NSN/PN and Nomenclature blocks of DA Form 3022-R; in this case, 1315-00-926-1885-C280 CTG, 90mm: HE-T, Comp B, M71A1.

```

                                PRIORITY 00448
                                2115Z 20MR84
                                1 2 3

PTTUZYOW ROC1AFA3675 0971441-0000-RUCLGDA.
ANR 00000
P 201441Z MAR 84
FM COR ARRCOM ROCK ISLAND IL//DRSAR-QAS//
TO AIG 359
    AIG 7443
    AIG 7481

BT
UNCLAS
SUBJ: TB 9-1300-385-1 MAY 78
1. THIS IS A CLASS B SUSP.
2. THIS MSG IS INTERIM CH 76-64 to TB 9-1300-385-1 and INVOLVES TEMP SUSP
OF AMMO. THIS INFO WILL BE INCORPORATED INTO A PRINTED CH TO SUBJ TB
WITHIN 90 DAYS.
3. MIF A-26-76 APPLIES. FOL LOT(S) SUSP FR ISS AND USE EXCEPT FOR
EMERGENCY COMBAT. CONDITION N.
ITEM                                LOT NO.                                SUSP NO.
1315-00-926-1885-C280                IOP 3-7                                S-11424
CTG 90mm: HE-T, COMP B M71A
REASON: SHORT ROUND..
4. REPT QTY ON HAND IAW PARA 4-3 AR 75-1 to DRSAR-QAS

BT                                PRIORITY 00448
3675                                2115Z 20 MR 84

```

Figure 4-2. Message on Temporary Suspension of Ammunition.

- *Lot no.*—from the Lot/serial no. block of DA Form 3022-R; in this case, IOP-3-7.
- *ACC*—the condition code from the message you received initiating the change; in this case, N.
- *Location from*—from the Location block of DA Form 3022-R; in this case, A21. *NOTE:* The information in the Location block of the DA 3151-R will always show the current location.
- *Location to*—from the Location block of DA Form 3022-R; in this case, A21.

	ROUTINE 00248
	1855Z 28FB84
	1 2 3
RTTUZYOW ROCIAFA4718 0971441-0000-RUCLGDA	
ZNR 00000	
P 281530Z FEB 84	
FM CDR USA ARRCOM ROCK ISLAND IL//DRSAR-QAS//	
TO AIR 7539	
AIG 7443	
AIG 7481	
BT	
UNCLAS	
SUBJ: TB 9-1300-385-1 1 May 82	
1. THIS MSG SUPPLEMENT 80-15 TO TB 9-1300-385-1 APR 79 AND INVOLVES	
PERM SUSP OF ONE LOT OF AMMO. SUPPL 80-14 WAS XMIT ON 242150Z FEB 84	
BY PRIORITY MSG.	
2. MIF A 140-80 APPLIES. FOL LOT PERM SUSP FR ISSUE AND USE.	
<u>ITEM</u>	<u>LOT NO.</u>
1370-00-028-6007-L366	LOW 1-4
SIMULATOR, PROJECTILE,	
AIR BURST, M74A1	
FIX: 100% X-RAY FOR MISSING PROPELLANT. ACC-F	
3. THE ABOVE WILL BE RETAINED UNTIL REVISED TB IS RECEIVED.	
4. REPT QTY ON HAND IAW PARA 5-9, DA PAM 738-750.	
BT	
#4718	ROUTINE 00248
	1855Z 28FB84

Figure 4-3. Message on Permanent Suspension of Ammunition.

- *P/Its/Bxs*—the number of pallets and boxes of this item of ammunition. Make this entry only if your local SOP calls for it. In this case, 10/20. Otherwise, leave blank.
- *Total rounds*—the available number of rounds of this item of ammunition. Make this entry only if your local SOP calls for it. In this case, 400. Otherwise, leave blank.

NOTE: If your SOP calls for the two above entries to be made, go to the records clerk in the stock control section for the required information.

```

ROUTINE 00428
0925Z 15MAY84
1 2 3

RTTUZYOW ROCIAFA4921 0971441-0000-RUCLGDA
ZNR 00000
P 150825 MAY 84
FM CDR USA ARRCOM ROCK ISLAND IL//DRSAR-QAS//
TO AIG 7539
    AIG 7443
    AIG 7481
BT
UNCLAS
SUBJ: TB 9-1330-385-1 May 82
1. THIS MSG IS SUPPLEMENT 80-19 TO TB 9-1300-385-1 APR 79 AND INVOLVES
REL OF THREE LOTS OF SUSP AMMO. SUPPL 80-18 WAS XMIT ON 221450Z APR 84 BY
ROUTINE MSG.
2. MIF A-13-77 APPLIES. FOL LOTS REL FOR ISS AND USE:
ITEM LOT NO.
1305-00-892-2150-A131 RA-L-30-17
CTG 7.61MM LINKED 4 BALL, M80 and 1 TR M62
1305-00-926-3942-A165 LOD-L-570-15
CTG 7.162MM LINKED 4 BALL, M80 AND 1 TR, M62
1305-00-890-2330-A142 LC-L-500-12
CTG 7.62MM BALL, M80 LINKED
3. THE ABOVE INFO WILL BE RETAINED UNTIL REVISED TB IS RECEIVED.
BT ROUTINE 00428
#4921 0925Z 15MAY84
    
```

Figure 4-4. Message on Release from Suspension.

- *Init.* Leave blank. The stock records clerk will initial this block.
- *Remarks*—from the message authorizing the change or from the Conditions encountered block of DA Form 3022-R; in this case: Item 1. Condition code change from CC-A to CC-N; IAW P201441Z Mar 84, suspended from issue and use, except for emergency combat.
- *Date/signature.* The date and signature blocks at the bottom of DA Form 3151-R are left blank because in this case nothing is issued or received.

The completed DA Form 3151-R is sent to the control section.

```

ROUTINE 00337
1052Z 21APR84
1 2 3

RTTUZYOW ROCIAFA4827 0971441-0000-RUCLGDA
ZNR 00000
P 210830Z APR 84
FM CDR USA ARRCOM ROCK ISLAND IL//DRSAR-QAS//
TO AIG 7539
    AIG 7443
    AIG 7481

BT
UNCLAS
SUBJ: TB 9-1300-385-1 May 82
1. THIS MSG IS SUPPLEMENT 80-20 TO TB 9-1300-385-1 APR 83 AND INVOLVES
RESTRICTION OF TWO LOTS OF AMMO. SUPPL 80-19 WAS XMIT ON 101725Z APR 84
BY ROUTINE MSG.
2. MIF A-14-80 APPLIES. FOL LOTS ARE RELEASED FROM TEMP SUSP WITH
RESTRICTION:
ITEM                                LOT NO.
1340-01-029-8012-H557              LS-222-17RW
ROCKET, 66MM, HE, AT M72A2        LS-222-19RW
W/COUPLER AND NOZZLE WRAP
RESTRICTION: RESTRICTED TO TRAINING USE ONLY. CC-B.
3. THE ABOVE INFO WILL BE RETAINED UNTIL REVISED TB IS RECEIVED.
BT                                ROUTINE 00337
#4827                             1052Z 21APR84

```

Figure 4-5. Message on Ammunition Restrictions.

MM3667, Lesson 4

ARMY DEPOT SURVEILLANCE RECORD <small>For use of this form, see SB 742-1 The proponent agency is DARCOM.</small>						Name of Installation Miesau Army Depot					
NSN/PN 1315-00-926-1885-C280				Nomenclature Cartridge, 90mm HE-T, Comp B, M21A1, w/Fuze, PD, M51A5							
Lot/Serial No. IOP 3-7		Grade	Date Mfg 9-69	Explo Wt/Pkg 4-30	Shelf Life Exp Dte	Wt/Cube 132/2.7	Stg Comp Grp & QD Class E (12)1.2				
DOT Name Ammunition for Cannon w/Explosive Projectile					DOT Class A		Packed 1 Fbr Cntr 2 Cntr, 2 Rd/Wdn Bx				
Component Nomenclature							Lot/Serial No.				
Alt/MWO Status											
Location	Quantity	Cond Code	I L P	Location	Quantity	Cond Code	I L P	Location	Quantity	Cond Code	I L P
A21	400	A									
A21	400	N									
DODAC/PN 1315-C280		Due Dates			Packed		Cond Code	Caliber	Lot/Serial No. IOP 3-7		
		Inspection 20 Mar 89	Monitor	Cal/Load Test	1/Fbr Cntr 2 Cntr, 2 Rd/Wdn Bx						
RECORD OF INSPECTION											
Date	Type Inspection	Location	Conditions Encountered					Code Remarks			
20 Mar 84	Susp Notice	A21	Condition code change from CC:1 to CC:N IAW P2014412, Mar 84. Suspended from issue and use, except for emergency combat.								

DA FORM 3022-R, 1 May 78

PREVIOUS EDITION IS OBSOLETE. (Paper size 8X10 1/2" Image size 7 X 9 1/2")

Figure 4-6. Completed DA Form 3022-R (Army Depot Surveillance Record).

MAKING A CONDITION CODE CHANGE USING DA FORM 2064

DA Form 2064 (figure 4-7) is used to post a condition code change *after* you have completed DA Form 3151-R. It is your responsibility to post this change.

Using the latest register page (figure 4-7), which is already partially completed, the following items (shown as the last entry) are filled in.

- *Document number date (a)* – the current Julian date; in this case, 4086.
- *Document number serial (b)* – the number assigned for each entry on the DA Form 2064. In this case, 0002. *NOTE:* Numbering starts over with each new Julian date.
- *Document sent to (c)*. Enter Stock Control.
- *Stock number (d)* – from the NSN DODIC nomenclature block of DA Form 3151-R; in this case, 1315-00-926-1885-C280.

DOCUMENT REGISTER FOR SUPPLY ACTIONS <i>For use of this form, see DA PAM 710-2-1. The proponent agency is ODCSLOG.</i>			ELEMENT KEEPING THE REGISTER Surveillance Section USA Depot, Miesau			DOD ACTIVITY ADDRESS CODE AK4EK7			UNIT IDENTIFICATION CODE WB00AA			PAGE NUMBER 1	
DOCUMENT NUMBER		DOCUMENT SENT TO c	STOCK NUMBER d	NOUN e	REQUEST FOR f	PD g	INITIALS h	QUANTITY			DATE FOLLOW-UP DUE i	DATE COMPLETED m	REMARKS n
DATE a	SERIAL b							REQUEST i	REC'D TURN-IN j	DUE IN k			
4085	0001	Stock Control	1315-00-935-6031-C256	Ctg, 81mm: HE, M374, w/Fuze, PD, M324									Cond Code Change
4085	0002	"	1320-00-892-4201-D361	Ctg, Propelling, 175mm: M86									"
4086	0001	"	1305-00-990-5591-A112	Ctg, 7.62mm: blank, M82									"
4086	0002	"	1315-00-926-1885-C280	Ctg, 90mm: HE-T Comp B, M71A1									"

DA FORM 2064
JAN 82

EDITION OF SEP 65 IS OBSOLETE.

Figure 4-7. Completed DA Form 2064 (Document Register).

MM3667, Lesson 4

- *Noun (e)* – from the NSN DODIC nomenclature block of DA Form 3151-R; in the case, CTG, 90mm, HE-T, Comp B, M71A1.

Columns f, g, h, i, j, k, l, and m are left blank. The form is not being used for receipt and issue, only for a condition code change.

- *Remarks.* Enter Condition code change.

FINALIZING DA FORM 3151-R

When you have completed DA Form 2064, finalize DA Form 3151-R (figure 4-1) by filling in the authority block as shown on p. 50.

When you have completed DA Form 3151-R, give it to the chief inspector for review and approval. When the chief inspector approves and signs it, make a *copy* for your records.

MAKING A CONDITION CODE CHANGE USING DA FORM 4508

DA Form 4508 (figure 4-8) is used most often to control the movement of ammunition within an installation, to make serial/lot number, stock number, and item data changes, and to accomplish reclassification actions.

Before you can fill out DA Form 4508, you must have a completed ASIR (figure 4-9), a filled-out DA Form 2064 (figure 4-10), and a planograph (figure 4-11).

Refer to figures 4-8, 4-9, 4-10, and 4-11 as you go through the form item by item.

- *Date prepared* – the date you are preparing the form.
- *Control number* – from the Document number date and serial block of DA Form 2064; in this case, 4082-0003.
- *From and to* – information about any change in location, serial/lot number, stock number, reclassification, item data, or any other change. NOTE: Much of the information that you will be recording will be the same for both the From and the To section. When you have information that is the same for both sections, you may either copy the same information twice or only write it in the From section and write Same in the To section.
- *Stock number* – from the NSN/DODIC block of the ASIR; in this case, 1320-00-529-7331-D544 is entered in the From block and Same in the To block.
- *Nomenclature* – from the Nomenclature block of the ASIR; in this case, Projectile 155mm: HE, M107 w/Suppl Chg, is entered in the From block and Same in the To block.
- *Serial/lot number* – enter the information from the Lot/serial/number block of the ASIR; in this case, LOW 32-61 in the From block and Same in the To block.

		DATE PREPARED Present Date					CONTROL NUMBER 4082-0003						
STOCK NUMBER Same		NOMENCLATURE Same											
TO	SERIAL/LOT NUMBER		COND	SITE LOCATION	GRID LOCATION	RES S T E	T / S	L / C	M E T H	MGR	QUANTITY	NO. PKS	UP QTY
	SERIAL	LOT											
	Same		C	Same	CHCJ	A	I	M	AD1	504	63	8	
OF ACTION			SIGNATURE OF FOREMAN/CHECKER/INSPECTOR							DATE OF ACTION			
<input type="checkbox"/> RECLASSIFICATION <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> ITEM DATA CHANGE			SFC Joseph R. Smith APPROVED/DATE William A. Brown, GS-11 APPROVED/DATE Harvey Jones, GS-12, Ch, Surv							Present Date			

Figure 4-8. Completed DA Form 4508 (Ammunition Transfer Record). Continued

- *T/S* – the type storage code. You can find this information on the bottom of the planograph (Typ Spc) (figure 4-11) or on page C-5 of AMCR 740-25 (see extract at figure 4-13); in this case I in both the From and To blocks.
- *L/C* – the locally assigned location control code. This information is shown on the bottom of the planograph (Loc Ctl). If it is not in the planograph data, leave this block blank; in this case, it is blank.
- *Meth* – the method of storage. You will find this information on the bottom of the planograph (Mth Stg); in this case, M in both the From and To blocks.
- *Mgr* – the routing identifier code (RIC) of the ammunition manager. The RIC is obtained from stock control. In this case, AD1 is used in both From and To blocks.

MM3667, Lesson 4

AMMUNITION SURVEILLANCE INSPECTION REPORT (ASIR)

NSN/DODIC 1320-00-529-7331-D544		LOT/SERIAL NUMBER LOW 32-61		DATE Present Date			
NOMENCLATURE Projectile, 155mm: HE, M107, w/Suppl Chg							
DOT MARKING (SC) Explosive Projectile				DOT CLASS A			
PACKED (SC): 8/Pallet							
WT: 797	CU: 6.8	LOAD DATE: 1-11-73	EXPL WT: 119	STG COMP GRP & QD CLASS D(18)1.1			
NOTE: DESCRIBE IN REMARK COLUMN IF DIFFERENT FROM SUPPLY CATALOG							
F R O M	CC	QTY	LOC	T O	CC	QTY	LOC
	A	504	B1A		C	504	B1A
COMPONENTS		MODEL	LOT NUMBER	DATE (MFG)	GRADE		
Liner			HAR 1				
Shell		M101	NOR 8-1				
Suppl Chg			LOW 273				
CONDITIONS ENCOUNTERED PI					CODE REMARKS		
Inspected 80 projectiles of 10-pallet sample. Inspected 10 additional							
plts at storage location.							
OUTER PACK: 10 of 20 pallets with minor deterioration. DOD and markings							
correct and legible.							
ITEM: Marking correct and legible. Fuze well - minor rust on threads.							
Rotating band - minor overspray of paint.							
Recommend CC change from "A" to "C."							
INSP'D BY	REVIEWED BY	Q.A. SPEC (AMMO)		POSTED BY			

Figure 4-9. Completed ASIR.

- *Quantity* – from the Quantity blocks of the From and To sections of the ASIR; in this case, 504 in both the From and To blocks.
- *No. pkg* – the number of packages of ammunition; in this case, 63.
- *UP qty* – the number of units of ammunition per pack; in this case, 8.
- *Remarks*. Enter this statement: Condition code status change.
- *Type of action*. Enter an X in the Other block. Since this is a condition code status change, none of the other categories apply.
- *Signature of Foreman/Checker/Inspector* – the signature of the foreman, checker, or inspector; in this case, Joseph R. Smith.
- *Date of action* – the current date.

When you have completed the form, check it for accuracy and then forward one copy to the Control Section and one to the Surveillance Branch.

DOCUMENT REGISTER FOR SUPPLY ACTIONS <i>For use of this form, see DA PAM 710-2-1 The proponent agency is ODCSLOG</i>			ELEMENT KEEPING THE REGISTER Surveillance Section USA Depot, Miesau, Germany			DOD ACTIVITY ADDRESS CODE AK4EK7			UNIT IDENTIFICATION CODE WB			PAGE NUMBER 1	
DOCUMENT NUMBER		DOCUMENT SENT TO c	STOCK NUMBER d	NOUN e	REQUEST FOR f	PD g	INITIALS h	QUANTITY			DATE FOLLOWUP DUE j	DATE COMPLETED m	REMARKS n
DATE a	SERIAL b							REQUEST i	REC'D TURN IN k	DUEN l			
4081	0001	Stock Control	1315-00-985-6031-C256	Ctg, 81mm: HE, M374, w/Fuze									Cond Code Change
4081	0002	Stock Control	1320-00-892-4201-D361	Chg Prop 175mm									Cond Code Change
4082	0001	Stock Control	1305-00-990-5594-A112	Ctg, 7.62mm, blank									Cond Code Change
4082	0002	Stock Control	1315-00-925-1885-C280	Ctg, 90mm: HE-T, M71A									Cond Code Change
4082	0003	Stock Control	1320-00-529-7331-D544	Proj, 155mm: HE, M107									Cond Code Change

DA FORM 2064
JAN 82

EDITION OF SEP 85 IS OBSOLETE.

Figure 4-10. Completed DA Form 2064 (Document Register for Supply Actions).

MM3667, Lesson 4

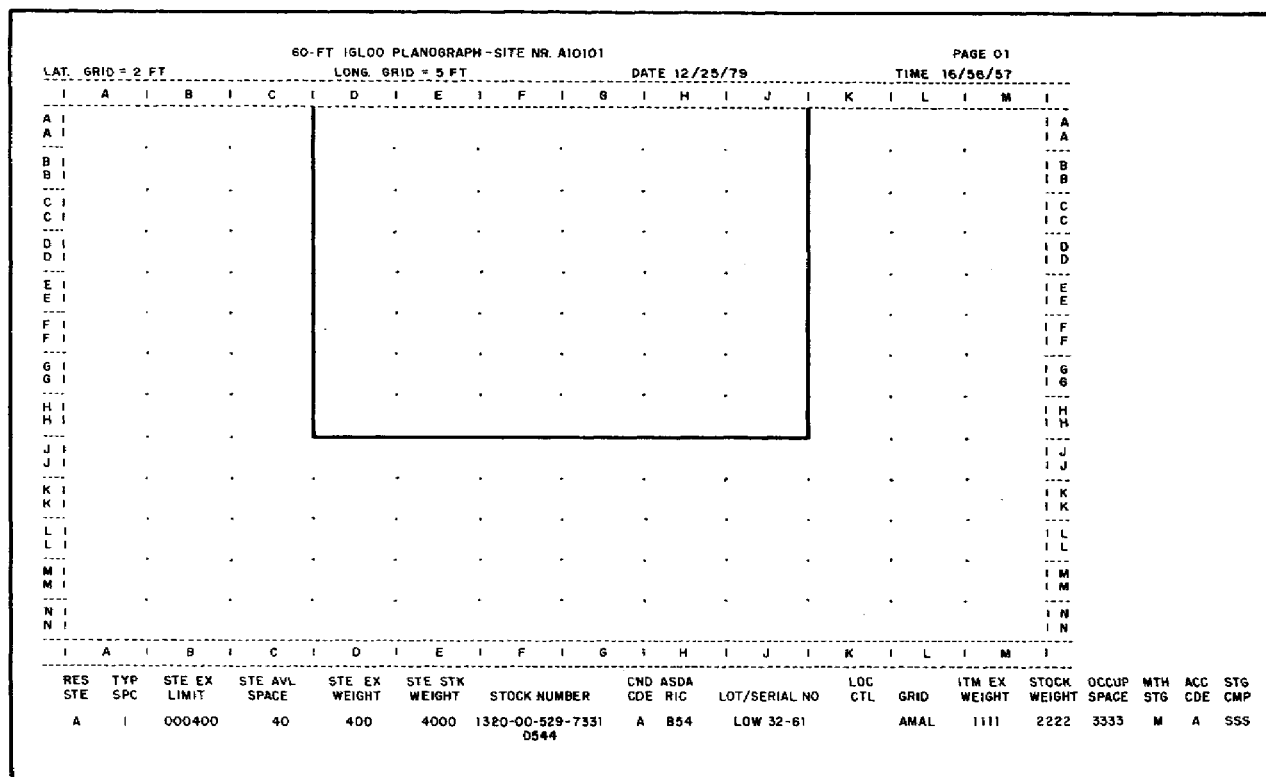


Figure 4-11. Planograph.

To determine the GRID LOCATION, study the planograph. Notice that it is labeled A to M across the top and bottom. Also notice that every other letter is I. These indicate halfway positions between letters. The sides of the planograph are lettered AA to HH.

Now, look at the lines drawn connecting the dots in the grid in the middle. In this sample, they start at the I between C and D, go down to the dot next to the HH, across the parallel dot under the I between the J and K, and then up to the I between J and K.

To read the grid location, start at the top left position and read to the bottom left. Then go back to the top left and over to the top right. The reading points are always at I positions, so to get the grid position, read the letter before it. So, the grid location on this planograph is CHCJ. C is the top left position (the letter before the I the line starts at), H is the bottom left position, back to C in the top left and over to J (the letter before the I the right-hand line starts at) in the top right position.

C-5. RESERVATION SITE CODES. These codes identify parent depot or a remote storage site controlled by the parent depot. In addition, they can be used to reserve space for a specific purpose.

<u>Code</u>	<u>Explanation</u>
A	Contingency stock--parent depot.
1	Materiel not reserved--remote storage site.
2	Contingency stock--remote storage site.
B through Z	Assigned by depot for depot use--parent depot.
3 through 0	Assigned by depot for depot use--remote storage site.
Blank	Materiel not reserved--parent depot.

Figure 4-12. Extract of AMCR 740-25, Page C-4.

C-7. TYPE-OF-SPACE-CODES. These codes will be used in association with the location number to indicate the type of space being used for the materiel.

<u>Code</u>	<u>Explanation</u>
A	Heated warehouse space (general purpose).
B	Unheated warehouse space (general purpose).
C	Controlled humidity warehouse space.
D	Flammable warehouse space.
E	Chill warehouse space.
F	Freeze warehouse space.
G	Shed, nonwarehouse space.
H	40-foot igloo.
I	60-foot igloo.
J	80-foot igloo.
K	Stradley magazine.

Figure 4-13. Extract of AMCR 740-25, Page C-4.

MM3667, Lesson 4

REVIEW EXERCISES

1. What is the first thing you do when you receive a message initiating a condition code change? (Circle the letter of the correct answer.)
 - a. Fill out DA Form 3151-R.
 - b. See if lot(s) listed in message is on hand physically.
 - c. Fill out DA Form 2064.
 - d. Make out suspension tags.

2. Using the message in figure 4-14, the information on the DA Form 3022-R in figure 4-15, and the additional information given below, fill out the blank DA Form 3151-R in figure 4-16.

Additional information: Surveillance Section is the name of your section. Miesau Army Depot is your activity. Control Section is the addressee. The current Julian date is 4340.

	PRIORITY 00448	
	215Z 05DC84	
	1 2	
PTTUZYOW ROCIAFA3675 0971441-0000-PUCLGDA.		
ZNR 0000		
P 052115Z DEC 84		
FM COR ARMCOR ROCK ISLAND IL//DRSAR-QAS//		
TO AIR 359		
AIG 7443		
AIG 7481		
BT		
UNCLAS		
SUBJ: TB 9-1300-385-1 MAY 82		
1. THIS IS A CLASS B SUSP.		
2. THIS MSG IS INTERIM CH 76-64 to TB 9-1300-385-1 AND INVOLVES TEMP SUSP OF AMMO. THIS INFO WILL BE INCORPORATED INTO A PRINTED CH TO SUBJ TB WITHIN 90 DAYS.		
3. MIF A-26-76 APPLIES. FOL LOT(S) SUSP FR ISS AND USE EXCEPT FOR EMERGENCY COMBAT. CONDITION CODE N.		
ITEM	LOT NO.	SUSP NO.
1315-C708	LS 600-23	S12249
CTG 4.2-INCH SMOKE, WP		
M2		
W/FUZE PD MB		
REASON: WATER DAMAGED FIBER CONTAINERS		
4. REPT QTY ON HAND IAW PARA 4-3 AR 75-1 to DRSAR QAS.		
BT		PRIORITY 00448
#5971		2115Z 05DC84

Figure 4-14.

ARMY DEPOT SURVEILLANCE RECORD <small>For use of this form, see SB 742-1 The proponent agency is DARCOM.</small>								Name of Installation Miesau Army Depot			
NSN/PN 1315-00-028-5006-C708				Nomenclature Cartridge, 4.2-Inch, Smoke w/Fuze PD, M8							
Lot/Serial No. LS 600-23		Grade	Date Mfg 7/60	Explo Wt/Pkg 4.28		Shelf Life Exp Dte		Wt/Cube 76/1.1	Stg Comp Grp & QD Class E(12)1.2		
DOT Name Ammunition for Cannon w/Smoke Projectile						DOT Class A		Packed 2/Wdn Bx			
Component Nomenclature Fuze PD, M8 Ign Ctg, M2								Lot/Serial No.			
Alt/MWO Status											
Location	Quantity	Cond Code	I L P	Location	Quantity	Cond Code	I L P	Location	Quantity	Cond Code	I L P
814	400	A									
DODAC/PN 1315-C708		Due Dates			Packed	Cond Code	Caliber	Lot/Serial No. LS 600-23			
		Inspection	Monitor	Cal/Load Test	2/Wdn Bx	A					
		18 Apr 85									
RECORD OF INSPECTION											
Date	Type Inspection	Location	Conditions Encountered					Code Remarks			

DA FORM 3022-R, 1 May 78

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Figure 4-15.

MM3667, Lesson 4

FOR INSTRUCTIONAL PURPOSES ONLY

AMMUNITION STORES SLIP For use of this form, see FM9-33 the proponent is United States Army Training and Doctrine Command				AUTHORITY			DATE:	
FROM:				NAME OF ACTIVITY				
TO:				VEHICLE NO.				
RECEIPT <input type="checkbox"/>		ISSUE <input type="checkbox"/>		OTHER (SPECIFY) <input type="checkbox"/>		DRIVER		
NSN-DODIC NOMENCLATURE	LOT NO.	ACC	LOCATION		PLTS BXS	TOTAL ROUNDS	INIT	
			FROM	TO				
REMARKS								
DATE		SIGNATURE OF ISSUING CHECKER			DATE		SIGNATURE OF RECEIVING CHECKER	

DA FORM 3151-R
1 APR 76

REPLACES DA FORM 3151, 1 JUL 66 WHICH MAY BE USED UNTIL EXHAUSTED.

Figure 4-16.

3. When do you post a condition code change on DA Form 2064? (Circle the letter of the correct answer.)
 - a. Before filling out DA Form 3151-R.
 - b. After filling out DA Form 3151-R.
 - c. After notifying storage platoon.
 - d. Before filling out DA Form 4508.

4. DA Form 2064 is already partially completed when you start to fill it out. Where do you get the information to fill in the Stock number, Noun, and Remarks blocks? (Circle the letter of the correct answer.)
 - a. From DA Form 3151-R.
 - b. From DA Form 4508.
 - c. From AMCR 740-25.
 - d. From Stock Control Section.

5. Use the planograph in figure 4-17 and the ASIR in figure 4-18 to fill out the DA Form 4508 in figure 4-19. Sign your name as the inspector and date the form.

Recheck your answers to the questions and your entries on the forms. When you are satisfied that you have answered the questions and completed the forms in the Review Exercises to the best of your ability, check your work against the Exercise Solutions. If you had more than 14 incorrect answers and entries, retake the entire lesson, paying particular attention to the areas in which your entries or answers were incorrect.

60-FT 16LOC PLANOGRAPH-SITE NR. A1Q101													SITE LOCATION		PAGE 01					
LAT. GRID = 2 FT						LONG. GRID = 5 FT						DATE 12/25/79	T 830	TIME 16/58/57						
A	B	C	D	E	F	G	H	I	J	K	L	M								
A																				
B																				
C																				
D																				
E																				
F																				
G																				
H																				
I																				
J																				
K																				
L																				
M																				
N																				
N																				

RES	STE	TYP	STE EX	STE AVL	STE EX	STE STK	STOCK NUMBER	CND	ASDA	LOC	ITM	STOCK	OCCUP	MTH	ACC	STG
STE	SPC	LIMIT	SPACE	WEIGHT	WEIGHT	WEIGHT		CDE	RIC	CTL	WEIGHT	WEIGHT	SPACE	STG	CDE	CMP
A	I	000400	40	400	4000	1315-00-028-5006	C758	A	B54	LS 600-23	AMAL	1111	2222	3333	M	A 555

Figure 4-17.

MM3667, Lesson 4

AMMUNITION SURVEILLANCE INSPECTION REPORT (ASIR)

NSN/DODIC 1315-00-028-5006-C708		LOT/SERIAL NUMBER LS 600-23		DATE 18 Feb 82			
NOMENCLATURE Cartridge 4.2-Inch Smoke WP, M2, w/Fuze PD M8							
DOT MARKING (SC) Ammunition for Cannon w/Smoke Projectile				DOT CLASS A			
PACKED (SC): 1/Fbr Cntr, 2 Rds/Wdn Bx							
WT. 7.68	CU 1.13	LOAD DATE 6/61	EXPL WT 0.29	STG COMP GRP & QD CLASS H(12) 1.2			
NOTE: DESCRIBE IN REMARK COLUMN IF DIFFERENT FROM SUPPLY CATALOG							
F R O M	CC	QTY	LOC	T O	CC	QTY	LOC
	A	4,012	814		E	4,012	814
COMPONENTS		MODEL	LOT NUMBER	DATE (MFG)	GRADE		
Projectile		M2	COB-30-206	7/60			
Fuze PD		M8	LS-501-9	6/61			
Ign Ctg		M2	FED-156				
CONDITIONS ENCOUNTERED PI, Unserv. CC-E, Qty. 4,012 LOC 814					CODE REMARKS		
Inspected 20 rounds of 10-box sample. Inspected 10 additional boxes							
at storage location. OUTER PACK: 10 of 20 boxes with minor deterioration;							
DOT and markings are correct and legible.							
INNER PACK: 8 of 20 fiber containers could not be opened by hand due to							
swelling from being wet (major).							
ITEM: No defects noted on fuze, projectile, or ignition ctg.							
CC "A" to CC "E."							
Requires 100% inspection for unserviceable outer and inner pack. Replace							
unserviceable packs and remark. Condition code change on CC-8050-001.							
INSP'D BY	REVIEWED BY	Q.A. SPEC (AMMO)		POSTED BY			

Figure 4-18.

FOR INSTRUCTIONAL PURPOSES ONLY

DATE PREPARED					CONTROL NUMBER					
NOMENCLATURE										
COND	SITE LOCATION	GRID LOCATION	RES			METH	MGR	QUANTITY	NO. PKG	UP QTY
			S	T	L					
SIGNATURE OF FOREMAN/CHECKER/INSPECTOR								DATE OF ACTION		
APPROVED/DATE										
APPROVED/DATE										

Figure 4-19. Continued

EXERCISE SOLUTIONS

LESSON 1

1. b (see page 1).
2. a (see pages 4 and 5).
3. d (see page 4).
4. b (see page 4).
5. a (see page 3).
6. c (see page 6).
7. c (see page 5).
8. c (see page 13).
9. b (see page 14).
10. b (see page 13).

LESSON 2

See filled-out ASIR, page 75.

LESSON 3

1. See filled-out DA Form 3022-R, page 76.
2. See filled-out DA Form 1650, page 77.

LESSON 4

1. b (see page 49).
2. See filled-out DA Form 3151-R, page 78.
3. b (see page 49).
4. a (see pages 54 and 55).
5. See filled-out DA form 4508, page 79.

MM3667

AMMUNITION SURVEILLANCE INSPECTION REPORT (ASIR)									
NSN/DODIC 1315-00-025-4830-C445			LOT/SERIAL NUMBER IOP 25-115				DATE Present Date		
NOMENCLATURE Cartridge, 105mm: HE: w/Suppl Chg, w/o Fuze									
DOT MARKING (SC): Ammunition for Cannon with Explosive Projectile							DOT CLASS A		
PACKED (SC): 1 Fbr Cntr, 2 Cntr, 2 Rd/Wd Bx									
WT. 120		CU. 2.0		LOAD DATE. 2-17-80		EXPL WT. 9.40		STG COMP GRP & OD CLASS E(12)1.2	
NOTE DESCRIBE IN REMARK COLUMN IF DIFFERENT FROM SUPPLY CATALOG.									
F R O M	CC	QTY	LOC		T O	CC	QTY	LOC	
	A	1,500	B-14			A	1,500	B-14	
COMPONENTS		MODEL	LOT NUMBER	DATE (MFG)	GRADE				
Shell		M1	IOP 2-23	11-3-79					
Ctg Case		M14A1	KM 28-14	9-20-79					
CONDITIONS ENCOUNTERED:								CODE RMKS	
PI 1,500 Rds CC:A									
Inspected 20 rounds of 10-box sample. Inspected 10 additional boxes at storage location.									
OUTER PACK: No defects noted on boxes. All markings correct and legible. Banding and hardware in good condition.									
INNER PACK: No defects noted on fiber containers. All markings correct and legible. Sealing tape applied correctly.									
ITEM: Projectile-Paint in good condition and correct color. Markings correct and legible. Closing plug gasket missing on one projectile; replaced during inspection. No defects noted on cartridge case and powder increments. Recommend item remain in CC:A.									
INSP'D BY		REVIEWED BY		O.A. SPEC (AMMO)			POSTED BY		

ARMY DEPOT SURVEILLANCE RECORD For use of this form, see SB 742-1 The proponent agency is DARCOM.								Name of Installation			
NSN/PN				Nomenclature							
1320-00-028-4375-D676				Charge, Propelling, 8 Inch, M2, White Bag							
Lot/Serial No.		Grade	Date Mfg	Explo Wt/Pkg	Shelf Life Exp Dte	Wt/Cube	Stg Comp Grp & QD Class				
KOP 28-92			8-25-79	28.813		51/1.6	C 1.3				
DOT Name					DOT Class		Packed				
Propellant Explosive (Solid) Class B					B		1/Mtl Cntr				
Component Nomenclature						Lot/Serial No.					
Propellant Primer Increment Bags						ROP 16-217 KN 20-4 OAP 6-220					
Alt/MWO Status											
Location	Quantity	Cond Code	I L P	Location	Quantity	Cond Code	I L P	Location	Quantity	Cond Code	I L P
A16	2,000	A									
DODAC/PN		Due Dates			Packed	Cond Code	Caliber	Lot/Serial No.			
1320-D676		Inspection	Monitor	Cal/Load Test	1/Mtl Cntr	A		ROP 28-192			
RECORD OF INSPECTION											
Date	Type Inspection	Location	Conditions Encountered				Code Remarks				
Present Date	PI	A-16	Inspected 20 propelling charges of a 20 container sample. OUTER PACK: Paint in good condition. Markings correct and legible. Performed air test on 20 metal containers. One container failed air test due to container cover gasket broken. Replaced during inspection. ITEM: Propelling charge: No defects noted. Marking correct and legible. No discoloration noted on increment bags. Recommend item remain in CC:A.								

MM3667

DEPARTMENT OF DEFENSE AMMUNITION DATA CARD				Form Approved Budget Bureau No. 22-R0269		
1. ITEM NOMENCLATURE Proj 155mm HE, M107 w/ Suppl Chg		2. FSN 1320-00-529-7331-D544		3. LOT NUMBER LOW 32-61 M		
4. MANUFACTURING LOADING OR ASSEMBLING ACTIVITY Anniston Army Depot		5. NET QUANTITY 7,682		6. PACKING OF LOT 8 Pallet		
7. CONTRACTOR Anniston Army Depot	8. CONTRACT OR ORDER NO. PRON A1-3-A0110	9. DRAWING OR REVISION 75-14-449	10. SPECIFICATION & REVISION MIL-P60366-1			
11. DATE STARTED 10-2-79	12. DATE COMPLETED 12-2-79	13. DATE INSPECTED 12-2-79	14. LINE 14D	15. ZONE WT SHELL Z		
16. CHARGE WEIGHT N/A	16A. INDEX OF POWDER N/A	16B. MPD IN INCHES N/A	16C. PPDR IN INCHES N/A			
16D. EXPLOSIVE WT. PER PKG 119	17. EXPECTED MUZZLE VELOCITY N/A	18. EXPECTED PRESSURE N/A	19. SHELL WEIGHT 92.47			
20. NUMBER OF TEST SAMPLES		21. SENT TO		22. DATE AND MODE OF SHIPMENT		
23. COMPONENTS (Continue on reverse, if necessary)						
COMPONENT Shell Liner	DRAWING NO. 75.4.990 73-50-412K REV J	MODEL	MANUFACTURER Norris Ind Reynolds Alum	DATE MFG. 1973 1979	LOT NO. NOP-8-1 EL 3-78	QUANTITY 7,700
24. DISPOSITION			25. TYPED NAME OF GOVERNMENT INSPECTOR			
			SIGNATURE			

DD FORM 1650
1 FEB 68

23A. COMPONENTS (Continued)						
COMPONENT	DRAWING NO.	MODEL	MANUFACTURER	DATE MFG	LOT NO.	QUANTITY
Spacer Chg Suppl	75-14-468H 74-50-318 REV M		Harris Alum Dupont	1971 1979	HAR 16 KDB6-46	
26. REMARKS (Identify by appropriate symbols: *Changes in process; **Deviations from drawing or specification; ***Unusual occurrences or difficulties)						
<p>Items renovated. Liners and suppl chg replaced at Anniston Army Depot with Liner Drawing Number 73-50-412K, Rev J, Lot #EL 3-73, mfg Reynolds Alum, 1984.</p> <p>Chg suppl drawing number 74-50-318, Rev M, Lot #KDB 6-46, mfg Dupont, 1984. Renovation cert by Joe Jones. Ammo Insp (supv), IAW MSG #07789. Add suffix "M" to lot #. Date started 10-2-84. Date completed 12-2-84.</p>						

MM3667

DATE PREPARED 18 Feb 78						CONTROL NUMBER				
NOMENCLATURE Same										
COZ	SITE LOCATION	GRID LOCATION	RES SITE	T/S	L/C	METH	MGR	QUANTITY	NO. PKG	UP QTY
B	814	AGAF	A	I	A			4,012		
SIGNATURE OF FOREMAN/CHECKER/INSPECTOR								DATE OF ACTION		
APPROVED/DATE										
APPROVED/DATE										