

APPENDIX 2

UNITIZATION PROCEDURES FOR BOXED WHITE PHOSPHORUS (WP) AND PLASTICIZED WHITE PHOSPHORUS (PWP) LOADED AMMUNITION ON 4-WAY ENTRY PALLET

**CARTRIDGE, 60MM, PACKED 16 PER WIREBOUND
BOX, UNITIZED 18 BOXES PER 40" X 48" PALLET;
APPROX BOX SIZE 15" L X 13-1/4" W X 17-3/4" H**

**NOTICE: THIS APPENDIX CANNOT STAND ALONE BUT MUST BE USED IN CONJUNCTION WITH
THE BASIC UNITIZATION PROCEDURES DRAWING 19-48-4015-20PA1004.**

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U.S. ARMY MATERIEL COMMAND DRAWING

<p>APPROVED. U.S. ARMY JOINT MUNITIONS COMMAND WCT</p> <p><i>David C. Pedlow</i></p> <p style="text-align: right; font-size: small;">AMSTA-AR-WEP-RP</p> <p>APPROVED BY ORDER OF COMMANDING GENERAL, U.S. ARMY MATERIEL COMMAND</p> <p><i>Charles P. Fros</i></p> <p style="text-align: center; font-size: x-small;">U.S. ARMY DEFENSE AMMUNITION CENTER</p>	<p>CAUTION: VERIFY PRIOR TO USE AT WWW.DAC.ARMY.MIL/DET THAT THIS IS THE MOST CURRENT VERSION OF THIS DOCUMENT. THIS IS PAGE 1 OF 4.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">DO NOT SCALE</td> <td colspan="2" style="text-align: center;">JANUARY 1983</td> </tr> <tr> <td style="width: 15%; font-size: x-small;">ENGINEER OR TECHNICIAN</td> <td style="width: 15%; font-size: x-small;">BASIC REV.</td> <td colspan="2" style="text-align: center;">WILLIAM R. FRERICHS</td> </tr> <tr> <td></td> <td></td> <td colspan="2" style="text-align: center;">MELVIN D. SIX</td> </tr> <tr> <td colspan="2"></td> <td style="text-align: center;">REVISION NO. 3</td> <td style="text-align: center;">FEBRUARY 2003</td> </tr> <tr> <td colspan="4" style="text-align: center; font-size: x-small;">SEE THE REVISION LISTING ON PAGE 2</td> </tr> <tr> <td style="font-size: x-small;">TRANSPORTATION ENGINEERING DIVISION</td> <td style="font-size: x-small;">VALIDATION ENGINEERING DIVISION</td> <td style="font-size: x-small;">CLASS</td> <td style="font-size: x-small;">DIVISION</td> </tr> <tr> <td style="font-size: x-small;">ENGINEERING DIRECTORATE</td> <td style="font-size: x-small;">TESTED</td> <td style="font-size: x-small;">DRAWING</td> <td style="font-size: x-small;">FILE</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">19</td> <td style="text-align: center;">48</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">4015/2</td> <td style="text-align: center;">20PA1004</td> </tr> </table>	DO NOT SCALE		JANUARY 1983		ENGINEER OR TECHNICIAN	BASIC REV.	WILLIAM R. FRERICHS				MELVIN D. SIX				REVISION NO. 3	FEBRUARY 2003	SEE THE REVISION LISTING ON PAGE 2				TRANSPORTATION ENGINEERING DIVISION	VALIDATION ENGINEERING DIVISION	CLASS	DIVISION	ENGINEERING DIRECTORATE	TESTED	DRAWING	FILE			19	48			4015/2	20PA1004
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PALLET UNIT DATA				
ITEMS INCLUDED		● HAZARD CLASS AND DIVISION	● COMPAT-ABILITY GROUP	APPROX WEIGHT LBS
NSN	DODIC			
1310-00-140-1536 01-236-1354 01-482-1259	B630 B646 BA14	1. 2. 2 1. 3	H H	1, 934 2, 132 2, 132

- HAZARD CLASSIFICATION DATA CONTAINED IN THE ABOVE CHART IS FOR GUIDANCE AND INFORMATIONAL PURPOSES ONLY. VERIFICATION OF THE SPECIFIED DATA SHOULD BE MADE BY CONSULTING THE MOST RECENT JOINT HAZARD CLASSIFICATION SYSTEM LISTING OR OTHER APPROVED LISTING(S).

REVISIONS

REVISION NO. 1, DATED SEPTEMBER 1987, CONSISTS OF:

1. ADDING ITEM BY NATIONAL STOCK NUMBER TO THE "PALLET UNIT DATA" CHART.
2. ADDING HAZARD CLASSIFICATION NOTE.

REVISION NO. 2, DATED JULY 1988, CONSISTS OF:

1. CHANGING BOX SIZE.
2. ADDING ALTERNATIVE LOAD STRAPS TO "PALLET UNIT" DRAWING.

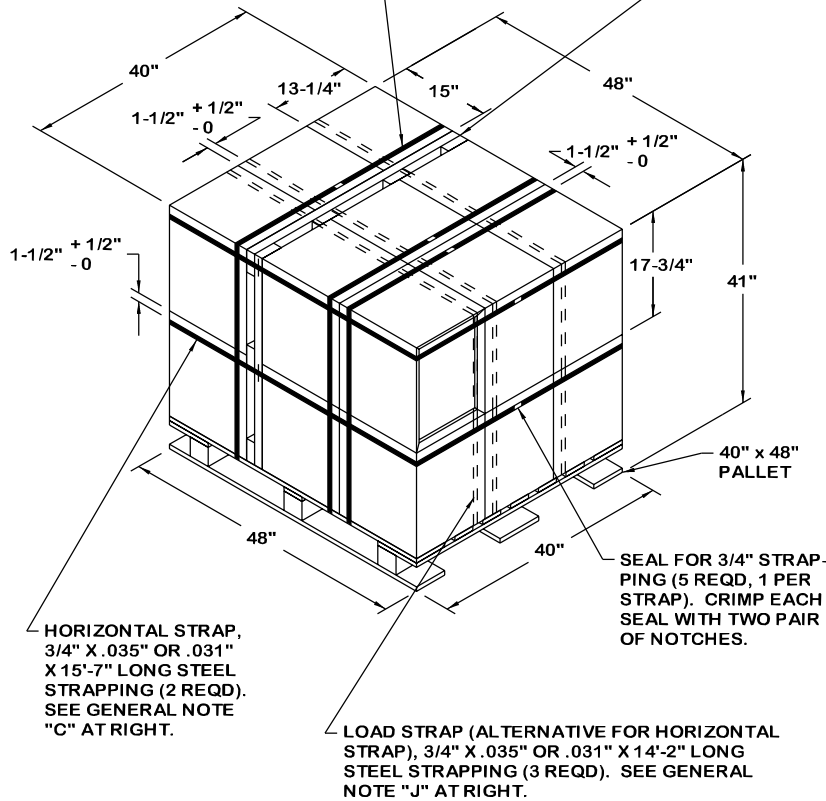
REVISION NO. 3, DATED FEBRUARY 2003, CONSISTS OF:

1. UPDATING DRAWING FORMAT.
2. ADDING ITEM BY NATIONAL STOCK NUMBER TO THE "PALLET UNIT DATA" CHART.
3. UPDATING GROSS WEIGHT AND HAZARD CLASS.
4. ADDING PRESERVATIVE TREATMENT AND BOX DRAWING REFERENCE GENERAL NOTES.
5. DELETING STRAP CUTTER GENERAL NOTE.

GENERAL NOTES

TIEDOWN STRAP, 3/4" X .035" OR .031" X 12'-9" LONG STEEL STRAPPING (3 REQD). SEE GENERAL NOTE "D" AT RIGHT.

SPACER ASSEMBLY (1 REQD). SEE THE DETAIL ON PAGE 4. STAPLE HORIZONTAL STRAPS TO SPACER ASSEMBLY AS SHOWN.



- A. THIS APPENDIX CANNOT STAND ALONE BUT MUST BE USED IN CONJUNCTION WITH THE BASIC UNITIZATION PROCEDURES DRAWING 19-48-4015-20PA1004. TO PRODUCE AN APPROVED UNIT LOAD, ALL PERTINENT PROCEDURES, SPECIFICATIONS AND CRITERIA SET FORTH WITHIN THE BASIC DRAWING WILL APPLY TO THE PROCEDURES DELINEATED IN THIS APPENDIX. ANY EXCEPTIONS TO THE BASIC PROCEDURES ARE SPECIFIED IN THIS APPENDIX.
- B. DIMENSIONS, CUBE AND WEIGHT OF A PALLET UNIT WILL VARY SLIGHTLY DEPENDING UPON THE ACTUAL DIMENSIONS OF THE BOXES AND THE WEIGHT OF THE SPECIFIC ITEM BEING UNITIZED.
- C. INSTALL EACH HORIZONTAL STRAP TO ENCIRCLE A LAYER OF BOXES ON THE PALLET. NOTE THAT THE STRAPS WILL BE LOCATED AS SHOWN, NEAR THE TOP OF EACH LAYER. HORIZONTAL STRAPS MUST BE TENSIONED AND SEALED PRIOR TO THE APPLICATION OF TIEDOWN STRAPS.
- D. INSTALL EACH TIEDOWN STRAP TO PASS UNDER THE TOP DECK BOARDS OF THE PALLET. NOTE THAT THE STRAPS WILL BE LOCATED AS SHOWN, NEAR THE SIDE CLEATS OF THE END PANELS OF THE BOX. TIEDOWN STRAPS WILL NOT BE APPLIED UNTIL THE HORIZONTAL STRAPS HAVE BEEN TENSIONED AND SEALED.
- E. THE FOLLOWING AMC DRAWINGS ARE APPLICABLE FOR OUTLOADING AND STORAGE OF THE ITEMS COVERED BY THIS APPENDIX.
 - CARLOADING - - - - - 19-48-4115-5PA1002
 - TRUCKLOADING - - - - - 19-48-4117-11PA1003
 - STORAGE - - - - - 19-48-4118-1-2-3-4-14-22PA1002
 - END OPENING ISO CONTAINER - - - - - 19-48-4153-15PA1002
 - MILVAN - - - - - 19-48-4166-15PA1003
 - SIDE OPENING ISO CONTAINER - - - - - 19-48-4267-15PA1009

PALLET UNIT

SEE GENERAL NOTE "B" AT RIGHT.

18 BOXES OF 60MM CARTRIDGES (16 PER BOX) @ 112 LBS - 2,016 LBS (APPROX)
 DUNNAGE - - - - - 36 LBS
 PALLET - - - - - 80 LBS

TOTAL WEIGHT - - - - - 2,132 LBS (APPROX)
 CUBE - - - - - 45.6 CU FT (APPROX)

- F. IF ITEMS COVERED HEREIN ARE UNITIZED PRIOR TO ISSUANCE OF THIS REVISION TO THIS APPENDIX, THE CONTAINERS NEED NOT BE REUNITIZED SOLELY TO CONFORM TO THIS REVISION.
- G. THE UNITIZATION PROCEDURES DEPICTED HEREIN MAY ALSO BE USED FOR UNITIZING 60MM CARTRIDGES WHEN IDENTIFIED BY DIFFERENT NATIONAL STOCK NUMBERS (NSN) THAN WHAT IS SHOWN ON PAGE 2, PROVIDED THE BOX PACK DOES NOT VARY FROM WHAT IS DELINEATED HEREIN. THE EXPLOSIVE CLASSIFICATION OF OTHER ITEMS MAY BE DIFFERENT THAN WHAT IS SHOWN.
- H. THE STYLE 1 PALLET DELINEATED IN THE DETAIL AT LEFT NEED NOT HAVE CHAMFERS OR STRAP SLOTS AS SPECIFIED WITHIN MILITARY SPECIFICATION MIL-P-15011 WHEN USED FOR THE UNITIZATION OF ITEMS COVERED BY THIS APPENDIX.
- J. LOAD STRAPS MAY BE USED IN LIEU OF HORIZONTAL STRAPS. LOAD STRAPS WILL BE LOCATED AS SHOWN IN THE DETAIL AT LEFT. LOAD STRAPS WILL BE PREPOSITIONED ON THE PALLET DECK.
- K. DIMENSIONS OF THE SPACER ASSEMBLIES ARE APPROXIMATE AND MUST BE VERIFIED IN ACCORDANCE WITH GENERAL NOTE "W" IN THE BASIC PROCEDURES. THESE ASSEMBLIES MUST NOT PROTRUDE PAST THE TOPS AND/OR SIDES OF THE CONTAINERS.
- L. ALL DUNNAGE SHALL BE PRESERVATIVE TREATED IN ACCORDANCE WITH GENERAL NOTE "Z" IN THE BASIC PROCEDURES.
- M. FOR DETAILS OF THE WIREBOUND BOX SEE DRAWINGS 9317918 OR 9255568.

BILL OF MATERIAL		
LUMBER	LINEAR FEET	BOARD FEET
2" X 4"	21.83	14.56
NAILS	NO. REQD	POUNDS
10d (3")	24	0.37
PALLET, 40" X 48"	1 REQD	80 LBS
STEEL STRAPPING, 3/4"	69.96' REQD	6.25 LBS
SEAL FOR 3/4" STRAPPING	5 REQD	NIL
STAPLE, 15/16" X 3/4"	4 REQD	NIL

