

APPENDIX 7

UNITIZATION PROCEDURES FOR BOXED WHITE PHOSPHORUS (WP) AND PLASTICIZED WHITE PHOS- PHORUS (PWP) LOADED AMMUNI- TION ON 4-WAY ENTRY PALLETS

**CARTRIDGE, 105MM, PACKED 2 PER WOODEN BOX,
UNITIZED 20 BOXES PER 35" X 45-1/2" PALLET;
APPROX BOX SIZE 37-1/4" L X 12" W X 7-5/8" 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 style="font-size: small;">APPROVED, U.S. ARMY FIELD SUPPORT COMMAND <i>T.P.R.</i> <i>David A. Rostovich</i> AMSRS-AAR-AIL-TP</p>	<p>CAUTION: VERIFY PRIOR TO USE AT WWW.DAC.ARMY.MIL THAT THIS IS THE MOST CURRENT VERSION OF THIS DOCUMENT. THIS IS PAGE 1 OF 4.</p>			
<p style="font-size: small;">APPROVED BY ORDER OF COMMANDING GENERAL, U.S. ARMY MATERIEL COMMAND</p> <p style="font-size: small;">U.S. ARMY DEFENSE AMMUNITION CENTER</p>	DO NOT SCALE		FEBRUARY 1983	
	ENGINEER OR TECHNICIAN	BASIC REV.	<p>WILLIAM R. FRERICHS</p> <p>MARK GRACE</p>	
TRANSPORTATION ENGINEERING DIVISION	VALIDATION ENGINEERING DIVISION		TESTED	<p>REVISION NO. 2</p> <p>MAY 2005</p>
SEE THE REVISION LISTING ON PAGE 2			CLASS	DIVISION
ENGINEERING DIRECTORATE			19	48
			4015/ 7	20PA1004

PALLET UNIT DATA				
ITEMS INCLUDED		*HAZARD CLASS AND DIVISION	*COMPATIBILITY GROUP	APPROX WEIGHT (LBS)
NSN	DODIC			
1315-				
00-028-4831	C454	1. 2. 1	H	2, 473
00-113-5741	C454	1. 2. 1	H	2, 473
00-143-7616	C454	1. 2. 1	H	2, 473
00-145-7536	C454	1. 2. 1	H	2, 473
00-439-6121	C454	1. 2. 1	H	2, 473
00-439-6122	C454	1. 2. 1	H	2, 473
00-470-5368	C454	1. 2. 1	H	2, 473
00-892-4895	C454	1. 2. 1	H	2, 473
00-892-4999	C454	1. 2. 1	H	2, 473
00-166-4440	C477	1. 2. 1	H	2, 473
00-228-6282	C477	1. 2. 1	H	2, 473
00-228-6283	C477	1. 2. 1	H	2, 473
00-228-6284	C477	1. 2. 1	H	2, 473

*HAZARD AND 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

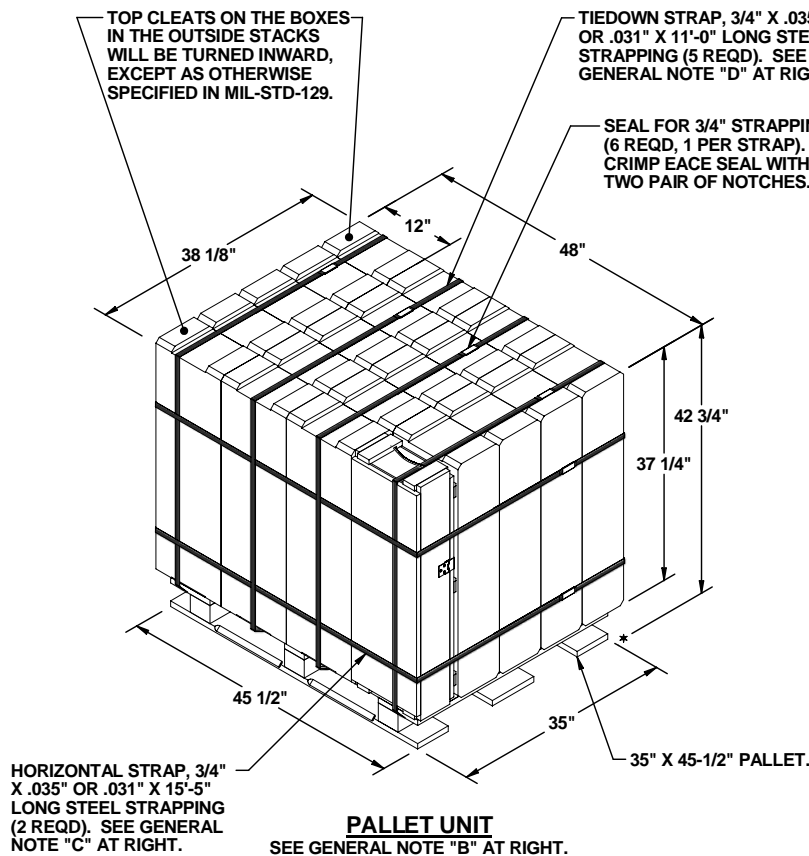
REVISION NO. 1, DATED DECEMBER 1986, CONSISTS OF:

1. CHANGING BOX DIMENSIONS.
2. UPDATING PALLET UNIT TO CONFORM TO 1. ABOVE.
3. UPDATING NATIONAL STOCK NUMBERS IN "PALLET UNIT DATA" CHART.

REVISION NO. 2, DATED MAY 2005, CONSISTS OF:

1. REMOVING DOT CLASS AND CG CLASS COLUMNS FROM "PALLET UNIT DATA" CHART.
2. REMOVING NSN 1315-00-021-6478.
3. UPDATING "PALLET UNIT DATA" QD CLASS COLUMN TO "1.2.1".
4. REMOVING STRAP CUTTER FROM VIEW AND STRAP CUTTER NOTE.
5. UPDATING GENERAL NOTES.

GENERAL NOTES



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 ENIRCLE THE LAYER OF BOXES ON THE PALLET. HORIZONTAL STRAPS MUST BE TENSIONED AND SEALED PRIOR TO THE APPLICATION OF TIEDOWN STRAPS.

D. INSTALL EACH TIEDOWN STRAP TO PASS UNDER THE DECK/STRINGER BOARDS OF THE PALLET AND TO BE LOCATED AS SHOWN. 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
- MI LVAN - - - - 19-48-4166-15PA1003
- SIDE OPENING ISO
- CONTAINER - - - - 19-48-4267-15PA1009

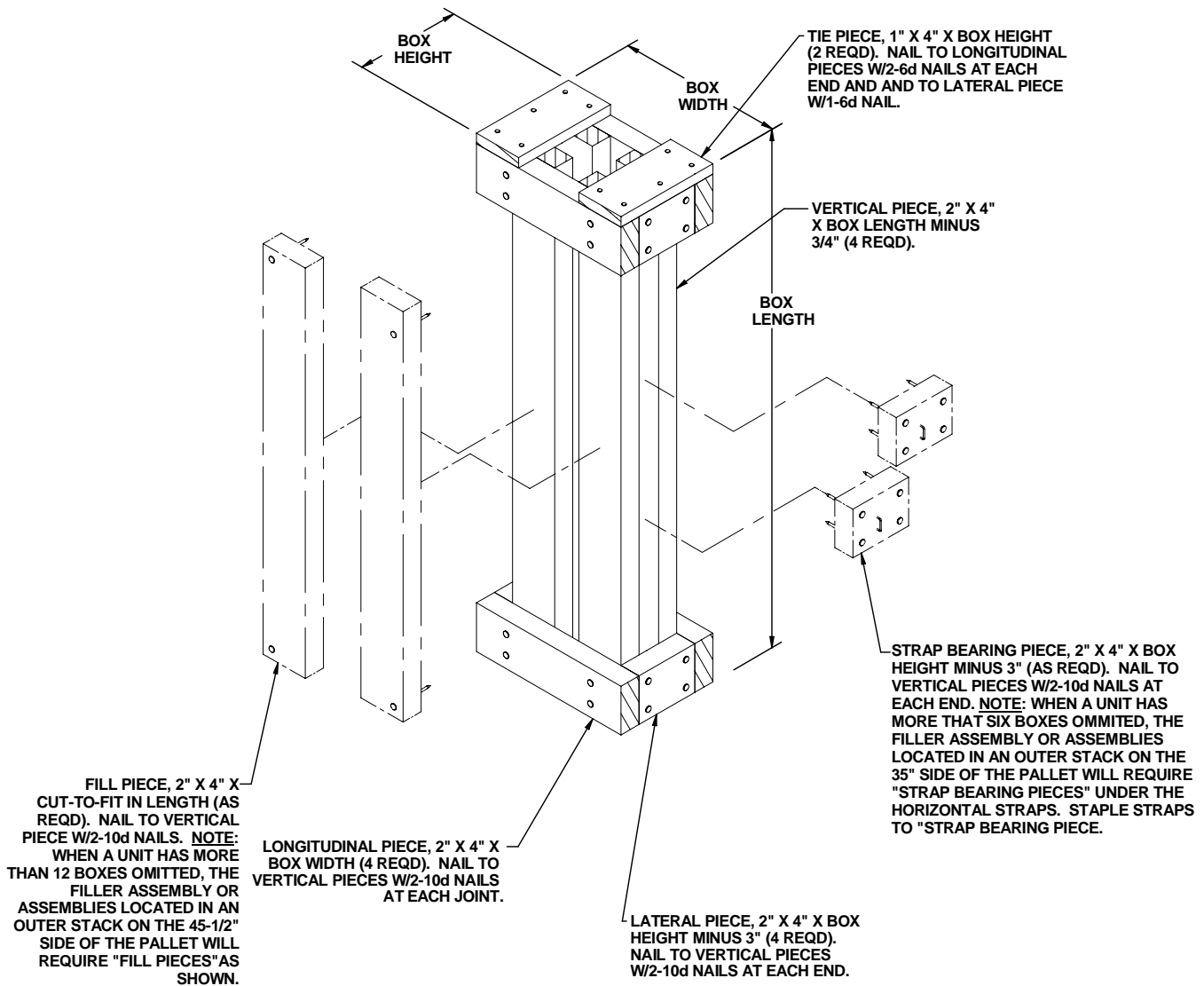
F. IF ITEMS COVERED HEREIN ARE UNITIZED PRIOR TO ISSUANCE OF THIS REVISION TO THIS APPENDIX, THE BOXES NEED NOT BE REUNITIZED SOLELY TO CONFORM TO THIS REVISION.

G. THE UNITIZATION PROCEDURES DEPICTED HEREIN MAY ALSO BE USED FOR UNITIZING 105MM 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. IF THERE IS NEED FOR FILLER ASSEMBLIES AND AT LEAST TWO PALLET UNITS ARE BEING CONSTRUCTED, NOT MORE THAT 16 FILLERS WILL BE INSTALLED IN ANY ONE PALLET UNIT. ADDITIONAL FILLERS CAN BE PUT IN A SECOND PALLET UNIT AS REQUIRED WHEN THE QUANTITY OF 16 FILLERS IN THE FIRST REDUCED PALLET UNIT IS INSUFFICIENT TO SATISFY THE TOTAL REDUCTION NEEDED. USING TWO PALLET UNITS TO SATISFY THE PALLETIZATION CRITERIA APPLICABLE TO LESS-THAN-FULL PALLET UNITS IS AN EXCEPTION TO THE BASIC PROCEDURES. HOWEVER, THE EXCEPTION IS NECESSARY FOR THE AMMUNITION PACK COVERED BY THIS APPENDIX TO MOST EFFECTIVELY GET AN ACCEPTABLE, COMPACT AND SOUND PALLET UNIT.

20 BOXES OF 105MM CARTRIDGE (2 PER BOX) @ 120 LBS - - -	2,400 LBS
DUNNAGE - - - - -	8 LBS
PALLET - - - - -	65 LBS
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TOTAL WEIGHT - - - - -	2,473 LBS (APPROX)
CUBE - - - - -	45.3 CU FT (APPROX)

BILL OF MATERIAL		
PALLET, 35" X 45-1/2" - - - - 1 REQD - - - - -		65 LBS
STEEL STRAPPING, 3/4" - 85.50' REQD - - - - -		7.63 LBS
SEAL FOR 3/4" STRAPPING - - - 6 REQD - - - - -		NIL



FILLER ASSEMBLY
(FOR MINUS ONE BOX)