APPENDIX 43E

UNITIZATION PROCEDURES FOR BOXED AMMUNITION AND COMPONENTS ON 4-WAY ENTRY PALLETS

CARTRIDGE, 81MM, PACKED 3 PER WIREBOUND BOX, UNITIZED 30 BOXES PER 40" X 48" PALLET; APPROX BOX SIZE 26-1/8" L X 15-1/4" W X 7-1/2" H

NOTICE: THIS APPENDIX CANNOT STAND ALONE BUT MUST BE USED IN CONJUNCTION WITH THE BASIC UNITIZATION PROCEDURES DRAWING 19-48-4116-20PA1002.

DISTRIBUTION STATEMENT A.

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U.S. ARMY MATERIEL COMMAND DRAWING BETTY J. KUNDERT DRAFTSMAN APPROVED, U.S. ARMY ARMAMENT, MUNITIONS AND CHEMICAL COMMAND SANDRA M. SCHULTZ **ENGINEER** NIH SUPPLY ENGINEERING DIVISION TRANSPORTATION VALIDATION ENGINEERING ENGINEERING NOIZIVIO : MOTSTATE AMSMC-TMJ AMSTA-AR-ESK APPROVED BY ORDER OF COMMANDING GENERAL, U.S. ARMY MATERIEL COMMAND MARCH 1993 CLASS NOIZIVIO DRAWING FILE U.S. ARMY DEFENSE AMMUNITION CENTER AND SCHOOL REVISION NO. 1 DECEMBER 1994 4116/ 20PA 48 19 43E 1002 SEE THE REVISION LISTING ON PAGE 2

DO NOT SCALE

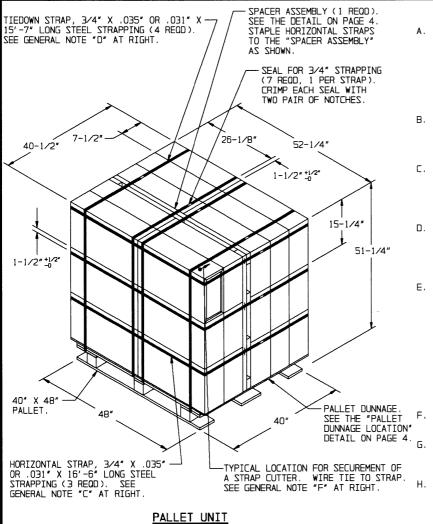
PALLET UNIT DATA						
ITEMS INCLUDED		HAZARD CLASS AND DIVISION		ADDDOV		
NZN	DODIC	OD CLASS	COMP GROUP	APPROX WEIGHT LBS		
1315- 00-563-7072	C256	(08)1.2	E	1,614		

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).

<u>REVISION</u>

REVISION NO. 1, DATED DECEMBER 1994, CONSISTS OF:

 DELETING ITEM BY NATIONAL STOCK NUMBER FROM "PALLET UNIT DATA" CHART.



SEE GENERAL NOTE "B" AT RIGHT.

30 BOXES OF 81MM	CTG (3 PER BOX) A	T 49 LBS	- 1,470 LBS (APPRO	χ)
DUNNAGE				
PALLET			- 80 FBZ	

TOTAL WEIGHT - - - - - - - - - - - - 1,614 LBS (APPROX) CUBE - - - - - - - - - - - 63.7 CU FT (APPROX)

BILL OF MATERIAL					
LUMBER	LINEAR FEET	BOARD FEET			
1" X 6" 2" X 4"	16.67 28.85	8.33 19.24			
NAILS	NO. REQD	SDANDS			
4d (1-1/2") 10d (3")	20 24	0.07 0.37			

PALLET, 40" X 48" - - - - - - 1 REOD - - - - 80 LBS STEEL STRAPPING, 3/4" - 111.83" REOD - - - 7.99 LBS SEAL FOR 3/4" STRAPPING - - - 7 REOD - - - - NIL STAPLE 15/16" W X 3/4" - - - 6 REOD - - - - NIL

GENERAL NOTES

- A. THIS APPENDIX CANNOT STAND ALONE BUT MUST BE USED IN CONJUNCTION WITH THE BASIC UNITIZATION PROCEDURES DRAWING 19-48-4116-20PA1002. 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 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
MILVAN - - - - 19-48-4166-15PA1003
SIDE OPENING ISO
CONTAINER - - - 19-48-4267-15PA1009

- FOR METHOD OF SECURING A STRAP CUTTER TO THE PALLET UNIT, SEE AMC DRAWING 19-48-4127-20P1000.
- IF ITEMS COVERED HEREIN ARE UNITIZED PRIOR TO ISSUANCE OF THIS APPENDIX, THE BOXES NEED NOT BE REUNITIZED SOLELY TO CONFORM TO THIS APPENDIX.
- H. THE UNITIZATION PROCEDURES DEPICTED HEREIN MAY ALSO BE USED FOR UNITIZING 81MM 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.
- J. WHEN THE UNIT LOAD DEPICTED AT LEFT IS TO BE USED FOR UNITIZING MARINE CORPS AMMUNITION, ONE LAYER OF BOXES MUST BE OMITTED, TIEDOWN STRAP LENGTHS MUST BE DECREASED TO 13'-1', ONE HORIZONTAL STRAP MUST BE OMITTED, AND THE SPACER ASSEMBLY MUST BE MODIFIED. SPACER ASSEMBLY MUST BE MODIFIED. SPACER ASSEMBLY MUST BE ELIMINATING ONE HORIZONTAL PIECE, LOCATING THE TOP OF THE CENTER HORIZONTAL AT 17", AND CHANGING VERTICAL PIECE LENGTH TO 30-1/2". THIS WILL RESULT IN AN OVERALL UNIT HEIGHT OF 36-3/4", A GROSS UNIT WEIGHT OF 1,101 POUNDS, AND A UNIT CUBE OF 45.0 CUBIC FEET. ADDITIONALLY, THE UNIT MAY BE MODIFIED AS DESCRIBED WHEN BEING SHIPPED BY MILVAN OR END OR SIDE OPENING INTERMODAL FREIGHT CONTAINER. THE DETERMINATION TO REDUCE THE LOAD BY A LAYER FOR TRANSPORTATION WILL BE MADE BY THE RESPONSIBLE COMMAND AND WILL BE BASED UPON ECONOMICS OF TRANSPORTATION AND HANDLING.
- K. THE STYLE I 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.
- L. ALL DUNNAGE SHALL BE PRESERVATIVE TREATED IN ACCORDANCE WITH GENERAL NOTE "X" IN THE BASIC PROFESSIONS.

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