## APPENDIX 39

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

CARTRIDGE, 4.2 INCH, GAS, PERSISTENT, M2, PACKED 2 PER WOODEN BOX, UNITIZED 48 BOXES PER 42" X 53" PALLET; APPROX BOX SIZE 27" L X 11-1/4"W X 7-1/4" H

● <u>NOTE</u>: THESE PROCEDURES ONLY APPLY TO 4.2 INCH CARTRIDGE OF TOXIC CHEMICAL MUNITIONS.

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:** 

APPROVED FOR PUBLIC RELEASE; DISTRIBUTION IS UNLIMITED.

#### U.S. ARMY MATERIEL COMMAND DRAWING APPROVED, U.S. ARMY NWH CAUTION: VERIFY PRIOR TO USE AT WWW.DAC.ARMY.MIL/DET THAT THIS OPERATIONS SUPPORT COMMAND IS THE MOST CURRENT VERSION OF THIS DOCUMENT. THIS IS PAGE 1 OF 4. DO NOT SCALE MSTA-AR-WEP-RP **NOVEMBER 1983** BASIC **MELVIN DAEUMER** ENGINEER OR TECHNICIAN REV. RANDIE UNSER **REVISION NO. 1 AUGUST 2002** APPROVED BY ORDER OF COMMANDING GENERAL, TRANSPORTATION U.S. ARMY MATERIEL COMMAND **ENGINEERING** SEE THE REVISION LISTING ON PAGE 2 NOISIVIO CLASS DRAWING VALIDATION DIVISION ENGINEERIA DIVISION 4116/ 19 20PA1002 48 ENGINEERIN 39 ion 7. French DIRECTOR ATT U.S. ARMY DEFENSE AMMUNITION CENTER

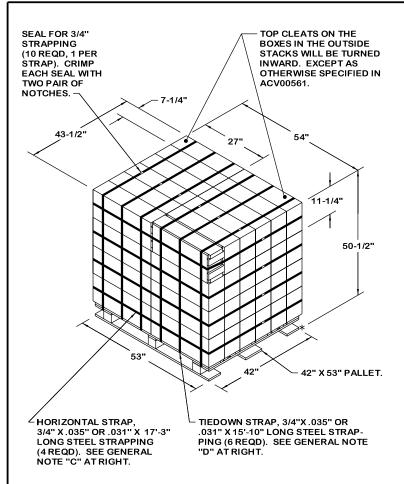
PALLET UNIT DATA					
ITEMS INCL	UDED	●HAZARD		APPROX WEIGHT LBS	
NSN	DODIC	CLASS AND DIVISION	COMPAT- ABILITY GROUP		
1315- 00-028-5024 00-028-5018 00-028-5027	C698 C703 C703	1. 2. 2 1. 2. 2 1. 2. 2	К К К	3, 462 3, 462 3, 462	

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).

### **REVISION**

REVISION NO. 1, DATED AUGUST 2002, CONSISTS OF:

- 1. CHANGING DODIC FOR SPECIFIED NATIONAL STOCK NUMBER IN THE PALLET UNIT DATA CHART.
- 2. DELETING ITEM BY NATIONAL STOCK NUMBER FROM THE PALLET UNIT DATA CHART.
- 3. UPDATING DRAWING FORMAT.



#### **PALLET UNIT**

SEE GENERAL NOTE "B" AT RIGHT

48 BOXES,								(APPROX)
DUNNAGE -	 	 	 	 -		- 15	LBS	
PALLET -	 	 	 	 -	-	- 90	LBS	

TOTAL WEIGHT - - - - - - - - - 3,465 LBS (APPROX) CUBE- - - - - - - - - - - - 68.6 CU FT (APPROX)

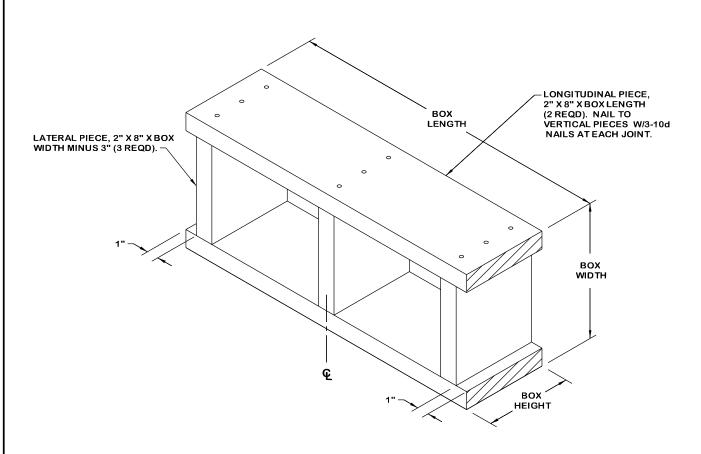
BILL OF MATERIAL
PALLET, 42" X 53" 1 REQD 90 LBS
STEEL STRAPPING, 3/4" - 164.00' REQD 14.64 LBS SEAL FOR 3/4" STRAPPING 10 REQD NIL

#### **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. HORIZONTAL STRAPS MUST BE TENSIONED AND SEALED PRIOR TO 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
```

- 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 4.2 INCH TOXIC CHEMICAL 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 1B 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. 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 14'-0", AND ONE HORIZONTAL STRAP MUST BE OMITTED. THIS WILL RESULT IN AN OVERALL UNIT HEIGHT OF 39-1/4", A GROSS UNIT WEIGHT OF 2,623 POUNDS, AND A UNIT CUBE OF 53.4 CUBIC FEET. ADDITIONALLY, THE UNIT MAY BE MODIFIED AS DESCRIBED WHEN BEING SHIPPED BY MILVAN OR ISO 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.



#### **FILLER ASSEMBLY**

(FOR MINUS ONE BOX)

PAGE 4