APPENDIX 7A

UNITIZATION PROCEDURES FOR COMPLETE ROUNDS PACKED IN CYLINDRICAL METAL CONTAINERS ON 4-WAY ENTRY PALLETS*

PA116 SERIES CONTAINER

NOTICE: THIS APPENDIX CANNOT STAND ALONE BUT MUST BE USED IN CONJUNCTION WITH THE BASIC UNITIZATION PROCEDURES DRAWING 19-48-4079-20PM1002.

DISTRIBUTION STATEMENT A:

APPROVED FOR PUBLIC RELEASE; DISTRIBUTION IS UNLIMITED.

*SEE GENERAL NOTE "J" ON PAGE 3.

U.S. ARMY MATERIEL COMMAND DRAWING											
APPROVED, U.S. ARMY FIELD SUPPORT COMMAND WILL A. F. LULOWA	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.										
AMSRD-AAR-AIL-TP		DO	NOT SCALE	JANUARY 1986							
0/10	ENGINEER OR	BASIC	LAURA A. FIEFFER		יותט		<u> </u>	300			
MACOUPP AMSFS-ST	TECHNICIAN	REV.	MARK GRACE	RE	REVISION NO. 4 MARCH 2004						
APPROVED BY ORDER OF COMMANDING GENERAL, U.S. ARMY MATERIAL COMMAND	TRANSPORTA ENGINEERI DIVISON	NG	G. L. Willis		SEE THE RE	VISION	LISTING	ON PAGE 2			
	VALIDATIO ENGINEERI		TESTED	CLASS	DIVISION	DRA	WING	FILE			
selwas.	DIVISON		tougl/In			4079/7A					
U.S. ARMY DEFENSE AMMUNITION CENTER	ENGINEERI DIRECTORA		Sur Blancles	19	48			20PM1002			

PALLET UNIT DATA									
ITEMS INCLUDED									
NSN	DODIC	•HAZARD CLASS AND DIVISION	•COMPATIBILITY GROUP	WEIGHT (LBS)					
1315-									
01-269-2256	C380	1. 2. 1	С	2, 241					
01-508-1349	C785	1. 2. 1	С	2, 101					
01-226-7418	C786	1. 2. 1	С	2, 061					
01-232-4638	C787	1. 2. 1	E	2, 421					

 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 JUNE 1986, CONSISTS OF:

- 1. ADDING ITEMS BY NATIONAL STOCK NUMBER (NSN) TO "PALLET UNIT DATA" CHART.
- 2. CHANGING CONTAINER WEIGHT.

REVISION NO. 2, DATED OCTOBER 1986, CONSISTS OF:

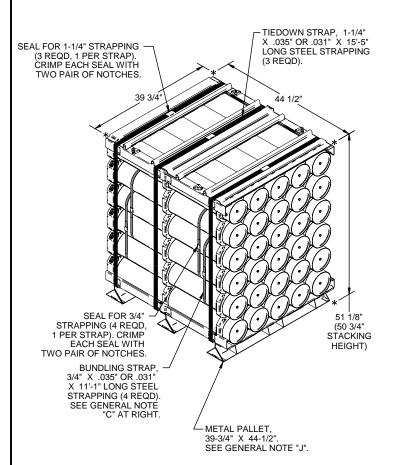
- 1. ADDING GENERAL NOTES "H" THROUGH "M".
- 2. DELETING PAGES 4 AND 5 (WOODEN FILLER ASSEMBLES).

REVISION NO. 3, DATED JANUARY 1989, CONSISTS OF:

1. ADDING ITEM BY NATIONAL STOCK NUMBER (NSN) TO "PALLET UNIT DATA" CHART.

REVISION NO.4, DATED MARCH 2004, CONSISTS OF:

- 1. UPDATING DRAWING FORMAT.
- 2. ADDING / DELETING ITEMS BY NATIONAL STOCK NUMBER (NSN) TO / FROM "PALLET UNIT DATA"



<u>PALLET UNIT</u>

SEE GENERAL NOTE "B" AT RIGHT

CONTAI NERS DUNNAGE -									
PALLET -									

TOTAL WEIGHT - - - - 2, 421 LBS CUBE - - - - - 52. 4 CU FT

BILL OF MATERIAL									
METAL PALLET, 39-3/4" X 44- 1/2"	1 REQD	161 LBS							
STEEL STRAPPING, 3/4"	44. 33' REQD	3. 96 LBS							
STEEL STRAPPING, 1-1/4"	46. 25' REQD	6. 61 LBS							
SEAL FOR 3/4" STRAPPING	4 REQD	NI L							
SEAL FOR 1-1/4" STRAPPING	3 REQD	NI L							

GENERAL NOTES

- A. THIS APPENDIX CANNOT STAND ALONE BUT MUST BE USED IN CONJUNCTION WITH THE BASIC UNITIZATION PROCEDURES DRAWING 19-48-4079-20PM1002. TO PRODUCE AN APPROVED UNIT LOAD, ALL PERTINENT PROCEDURES, MARKINGS, 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 CONTAINERS AND THE WEIGHT OF THE SPECIFIC ITEM BEING UNITIZED.
- C. BUNDLING STRAPS MUST BE TENSIONED AND SEALED PRIOR TO THE APPLICATION OF THE TIEDOWN STRAPS. BUNDLING STRAPS MUST ALSO BE INSTALLED AS CLOSE TO THE OUTER RINGS AS POSSIBLE, TO AVOID DAMAGE TO THE CONTAINER.
- D. ALTHOUGH THE CONTAINERS DEPICTED IN THE UNIT LOAD AT LEFT ARE CONSTRUCTED WITH INTERLOCKING DEVICES, THE INTERLOCKS WILL NOT FUNCTION PROPERLY UNLESS THE CONTAINERS ARE POSITIONED SO THAT THE "PINS" OF THE INTERLOCKS ARE FACING DOWNWARD. THIS ORIENTATION WILL AID IN THE PREVENTION OF CONTAINER MOVEMENT, BOTH LATERALLY AND LONGITUDINALLY, DURING SHIPMENT OF THE UNIT LOAD.
- E. INSTALL EACH TIEDOWN STRAP TO PASS UNDER THE DECK OF THE PALLET AND TO BE LOCATED AS SHOWN. TIEDOWN STRAPS WILL NOT BE APPLIED UNTIL THE BUNDLING STRAPS HAVE BEEN TENSIONED AND SEALED.
- F. THE FOLLOWING AMC DRAWINGS ARE APPLICABLE FOR OUTLOADING AND STORAGE OF THE ITEMS COVERED BY THIS APPENDIX.

BOXCAR - - - - - - - - - - - - - 19-48-4212/8A-5PM1003
END OPENING ISO CONTAINER - - 19-48-4215/8A-15PM1013
MILVAN - - - - - - - - - - - - - 15PM1013
MILVAN - - - - - - - - - - - - - 15PM1016
SIDE OPENING ISO CONTAINER - - 15PM1014
STORAGE - - - - - - - - - - - - - - 15PM1014
VAN TRAILER - - - - - - - - - - - - - 19-48-4213/8A-11PM1000

- G. 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.
- H. CONVERSION TO METRIC EQUIVALENTS: DIMENSIONS WITHIN THIS DOCUMENT ARE EXPRESSED IN INCHES, AND WEIGHTS ARE EXPRESSED IN POUNDS. WHEN NECESSARY, THE METRIC EQUIVALENTS MAY BE COMPUTED ON THE BASIS OF ONE INCH EQUALS 25.4MM AND ONE POUND EQUALS 0.454 KG.
- J. FOR DETAILS OF THE METAL PALLET SEE MILITARY SPECIFICATION MIL-P-48663.
- K. THE UNITIZATION PROCEDURES DEPICTED HEREIN MAY ALSO BE USED FOR UNITIZING COMPLETE ROUNDS WHEN IDENTIFIED BY DIFFERENT NATIONAL STOCK NUMBERS (NSN) THAN THOSE SHOWN ON PAGE 2, PROVIDED THE CONTAINER PACK DOES NOT VARY FROM WHAT IS DELINEATED HEREIN. THE EXPLOSIVE CLASSIFICATION OF OTHER ITEMS MAY BE DIFFERENT THAN WHAT IS SHOWN.
- L. EMPTY OR REJECT PA116 METAL CONTAINERS WILL BE USED AS FILLER CONTAINERS AS NECESSARY. IF FIVE FULL CONTAINERS ARE TO BE OMITTED, ONE FULL LAYER OF CONTAINERS WILL BE OMITTED. WHEN (EMPTY) FILLER CONTAINERS ARE USED IN PLACE OF OMITTED CONTAINERS TO COMPLETELY FILL OUT A LAYER ON A PALLET, THEY WILL BE MARKED AS SPECIFIED IN SPECIFIED IN ARDEC DRAWING NO. 12982865.
- M. FOR DETAILS OF THE PA116 CONTAINER SEE ARDEC DRAWING 9386831

CONTAINER DIMENSIONS - 444-1/2" LONG X 7-3/4" WIDE X 7-3/4" HIGH CONTAINER CUBE - - - 1.5 CUBIC FEET CONTAINER WEIGHT (WITH ROUND) - - - - 64, 69 OR 75 POUNDS (EMPTY) - - - - 23 POUNDS

N. FOR NSN 1315-01-226-7418-C786 ONLY, THE TOP COVER OF THE PALLET WILL BE MARKED "DOT-E-9649" IN ONE-INCH LETTERS NEAR THE CLOSED END OF THE CONTAINER.

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