# <u>APPENDIX 110J</u>

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

FLARE, AIRCRAFT OR FLARE, TARGET PACKED 4
PER WOODEN BOX, UNITIZED 9 BOXES PER 40" X 48"
PALLET; APPROX BOX SIZE 43" L X 16" W X 15" H

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

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# **U.S. ARMY MATERIEL COMMAND DRAWING**

APPROVED, U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND 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. REHMSTEDT.MA RK.J.1230548400 3 RDAR-EIL-TP DO NOT SCALE APPROVED U.S. ARMY JOINT MUNITIONS COMMAND OCTOBER 1994 CASILLAS.GILB Digitally signed by CASILLAS.GILBERT.J.1230393 **ENGINEER** BASIC SANDRA M. SCHULTZ ERT.J.12303936 SPENCER HOVEY 44 **TECHNICIAN** RF\/ AMS.JM-LIT **REVISION NO. 2 JANUARY 2014** TRANSPORTATION APPROVED BY ORDER OF COMMANDING FIEFFER.LAUR **ENGINEERING** GENERAL, U.S ARMY MATERIEL COMMAND SEE THE REVISION LISTING ON PAGE 2 A.A.1230375727 DIVISON CLASS DIVISION DRAWING SHIMP.UPTON SHIMP UPTON IN 121121257183 SHIMP UPTON IN 121121257183 OLE-NI, OULUSA, OLE-NI, OULUSA, OLE-NI, OL GORDON WA TESTED VALIDATION LTER.G.12395 **ENGINEERING** DIVISON 4116/ 20PA1002 **EXPLOSIVE** WILLIAMS.KENY WILLIAMS DN: caUS, DN: 19 48 110J SAFETY ON.L.1231212392 DIRECTORATE U.S. ARMY DEFENSE AMMUNITION CENTER

PALLET UNIT DATA				
ITEMS INCLUDED		*		
NSN	DODIC	*HAZARD CLASS AND DIVISION	*COMPATI- BILITY GROUP	APPROX WEIGHT (LBS)
1370-				
01-331-3485	L440	1. 3	G	1, 843
01-483-2406	L440	1. 3	G	1, 843
01-537-9031	L440	1. 3	G	1, 612
01-335-5053	L443	1. 3	G	1, 843
01-335-6075	L660	1. 3	G	1, 843
01-335-6074	L661	1. 3	G	1, 843
01-537-9304	LA29	1. 3	G	1, 828

 $<sup>^{\</sup>star}$ HAZARD CLASSIFICATION DATA CONTAINED IN THE ABOVE CHART IS FOR GUIDANCE AND INFORMATIONAL PUR-POSES 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 JULY 2003, CONSISTS OF:

- ADDING ITEM BY NATIONAL STOCK NUMBER (NSN) TO "PALLET UNIT DATA" CHART.
   ADDING GENERAL NOTE WITH BOX DRAWING REFERENCE AND ELIMINATE STRAP CUTTER GENERAL

REVISION NO. 2, DATED JANUARY 2014, CONSISTS OF CHANGES PER ECP R11K3002 INCLUDING:

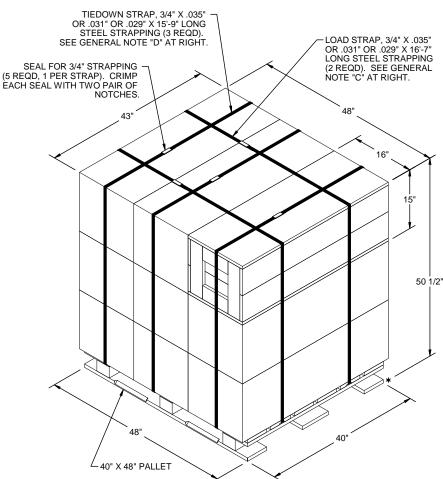
- 1. ADDING ITEM BY NATIONAL STOCK NUMBER (NSN) TO "PALLET UNIT DATA" CHART.
- ADDING GENERAL NOTE WITH BOX DRAWING REFERENCE.
   ADDING NEW STRAP THICKNESS TO UNITIZATION TIEDOWN AND LOAD STRAPS.

## **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. THE LOAD STRAPS MAY BE THREADED THROUGH THE STRAP SLOTS OF A PALLET OR PRE-POSITIONED ON THE PALLET DECK PRIOR TO PLACING THE BOXES ON THE PALLET. LOAD STRAPS MUST BE TENSIONED AND SEALED PRIOR TO APPLICATION OF TIEDOWN STRAPS.
- D. INSTALL EACH TIEDOWN STRAP TO PASS UNDER THE TOP DECK BOARDS OF THE PALLET AND TO BE LOCATED AS SHOWN. TIEDOWN STRAPS WILL NOT BE APPLIED UNTIL THE LOAD STRAPS HAVE BEEN TENSIONED AND SEALED.
- E. THE FOLLOWING AMC DRAWINGS ARE APPLICABLE FOR OUTLOADING AND STORAGE OF THE ITEMS COVERED BY THIS APPENDIX.

CARLOADI NG - - - 19-48-4115-5PA1002
TRUCKLOADI NG - - 19-48-4117-11PA1003
STORAGE - - - 19-48-4118-1-2-3-4-1422PA1002
END OPENI NG I SO
CONTAI NER - - - 19-48-4153-15PA1002
MI LVAN - - - - 19-48-4166-15PA1003
SI DE OPENI NG I SO
CONTAI NER - - - 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 FLARES 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-DTL-15011 WHEN USED FOR THE UNITIZATION OF ITEMS COVERED BY THIS APPENDIX.
- J. FOR DETAILS OF THE ASTM D6880 WOOD BOX SEE AIR FORCE DRAWING SPI 01-331-3485.



PALLET UNIT
SEE GENERAL NOTE "B" AT RIGHT.

TOTAL WEIGHT - - - - - - - - - - - - - 1,843 LBS (APPROX)
CUBE - - - - - - - - - 60.3 CU FT (APPROX)

# BILL OF MATERIAL

PALLET, 40" X 48" - - - - - 1 REOD - - - - - 80 LBS STEEL STRAPPING, 3/4" - 80. 42' REOD - - - - 7. 18 LBS SEAL FOR 3/4" STRAPPING - - 5 REOD - - - - - NIL

PAGE 3

