APPENDIX 7

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

CARTRIDGE, 7.62MM, PACKED VARIOUS QUANTI-TIES PER M19 SERIES METAL CONTAINER, 4 CON-TAINERS PER WIREBOUND BOX, UNITIZED 40 BOX-ES PER 35" X 45-1/2" PALLET; APPROX BOX SIZE 17-1/2" L X 11-1/2" W X 8-1/8" H

<u>NOTICE:</u> 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, COMBAT CAPABILITIES DEVELOPMENT COMMAND ARMAMENTS CENTER HANSSEN.JO Digitally signed by HANSSEN.JOSEPH.W. SEPH.W.1376 1376495538	<u>CAUTION</u> : VERIFY PRIOR TO USE AT https://www.dau.edu/cop/ammo/Pages/Default.aspx THAT THIS IS THE MOST CURRENT VERSION OF THIS DOCUMENT. THIS IS PAGE 1 OF 4.							
495538 Date: 2023.03.28 09:08:14 -05'00' FCDD-ACE-LTP	DO NOT SCALE				MARCH 1983			
	DESIGN BASIC GEORGE B. FECKE							
VVARD.GINA. WARD.GINA.M. 1369379808	ENGINEER	REV.	QUYEN TRAN] _{RE\}	REVISION NO. 14 MARCH 2023			
M.1369379808 Date: 2023.03.29 08:23:50 -05'00'	ENGINEERING DIVISON		FIEFFER.LAUR Digitally signed by FIEFFER.LAURA A.1230375727 Date: 2023.03.13 11:15:45-0500					
AMSJM-MLT APPROVED BY ORDER OF COMMANDING GENERAL.				SEE THE REVISION LISTING ON PAGE 2				
U.S. ARMY MATERIEL COMMAND	TEST ENGINEER		FELICIANO.AD Digitally signed by FELICIANO.ADIN.1259200373	CLASS	DIVISION	DRAWING		FILE
BRAILSFORD.KEIT Digitally signed by H.ANTHONY.10286 BRAILSFORD.KEITH.ANTHONY.	TEST REPORT	IA	IN.1259200373 Date: 2023.03.16 06:20:05					
55661 Date: 2023.04.13 16:53:02 -05'00'	EXPLOSIVE SAFETY DIRECTORATE		CUMMINS.PAU CUMMINS.PAULA.1231883122 L.A.1231883122 Date: 2023.03.22 06:37:51-0500'	19	48	41 [·]	16/7	20PA1002

PALLET UNIT DATA									
ITEMS INCL	UDED			APPROX WEIGHT (LBS)					
NSN	DODIC	*HAZARD CLASS AND DIVISION	*COMPATI- BILITY GROUP						
1305-									
00-752-8087	A111	1.4	S	2,441					
01-181-1750	A111	1.4	S	2,433					
00-305-0909	A122	1.4	S	3,133					
00-301-1679	A124	1.4	S	3,133					
00-542-1968	A128	1.4	S	3,185					
00-580-0131	A129	1.4	S	3,225					
00-892-2150	A131	1.4	S	3,169					
01-569-2912	A131	1.4	S	3,169					
00-892-2330	A143	1.4	S	3,185					
01-569-2917	A143	1.4	S	3,185					
00-892-2335	A146	1.4 1.4	S	3,185					
00-889-2169	A151		S	3,169					
00-460-2600	A159	INERT		3,253					
00-926-4009 01-380-9975	A159 A255	INERT 1.4 S		3,185					
01-398-1450		1.4	S C	3,185					
01-398-1450	AA03 AA04	1.4	C C	3,265 3,185					
01-398-1449	AA04 AA35	1.4	C C	3,185					
01-463-1508	AA35 AA39	1.4	-						
01-463-1508	AA39 AB60	1.4	S S	3,325 3,325					
01-598-5913	AB00 AB79	1.4	S	3,185					
01-606-7016	AB75 AB85	1.4	S	3,185					
01-606-7003	AB85	1.4	S	3,185					
01-650-7935	AC09	1.4	s	2,993					
01-696-9664	AC65	1.4	S	1,892					

*HAZARD CLASSIFICATION DATA CONTAINED IN THE ABOVE CHART IS FOR GUIDANCE AND INFORMATIONAL PURPOSES ONLY. VERIFI-CATION 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 SEPTEMBER 1984, CONSISTS OF:

ADDING ITEM BY NATIONAL STOCK NUMBER TO THE "PALLET UNIT DATA" CHART.

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

ADDING ALTERNATIVE FILLER ASSEMBLY.

REVISION NO. 3, DATED OCTOBER 1987, CONSISTS OF:

ADDING GENERAL NOTE "M" ("STYLE 1A PALLET").

REVISION NO. 4, DATED MAY 1989, CONSISTS OF:

ADDING ALTERNATIVE HORIZONTAL STRAPPING.

REVISION NO. 5, DATED SEPTEMBER 1993, CONSISTS OF:

ADDING ITEMS BY NATIONAL STOCK NUMBER TO THE "PALLET UNIT DATA" CHART.

REVISION NO. 6, DATED MARCH 1994, CONSISTS OF:

- 1. ADDING ITEMS BY NATIONAL STOCK NUMBER TO THE "PALLET
- UNIT DATA" CHART. 2. DELETING ITEM BY NATIONAL STOCK NUMBER TO THE "PALLET UNIT DATA" CHART.
- 3. CHANGING THE WEIGHT OF ITEM BY NATIONAL STOCK NUMBER IN THE "PALLET UNIT DATA" CHART.

REVISION NO. 7, DATED SEPTEMBER 1995, CONSISTS OF:

ADDING ITEMS BY NATIONAL STOCK NUMBER TO THE "PALLET UNIT DATA" CHART.

REVISION NO. 8, DATED JUNE 2002, CONSISTS OF:

 ADDING ITEMS BY NATIONAL STOCK NUMBER TO THE "PALLET UNIT DATA" CHART.
CORRECTING THE STRAPPING REQUIREMENTS.

REVISION NO. 9, DATED JANUARY 2005, CONSISTS OF:

ADDING ITEM BY NATIONAL STOCK NUMBER TO THE "PALLET UNIT DATA" CHART.

REVISION NO. 10, DATED FEBRUARY 2014, CONSISTS OF CHANGES PER ECPS R11K2042-1 AND R11K2012 INCLUDING:

ADDING ITEMS BY NATIONAL STOCK NUMBER TO THE "PALLET UNIT DATA" CHART.

REVISION NO. 11, DATED AUGUST 2016, CONSISTS OF:

ADDING ITEM BY NATIONAL STOCK NUMBER TO THE "PALLET UNIT DATA" CHART.

REVISION NO. 12, DATED FEBRUARY 2020, CONSISTS OF CHANGES PER ECP R19K3007 INCLUDING:

1. ADDING ITEMS BY NATIONAL STOCK NUMBER TO THE "PALLET

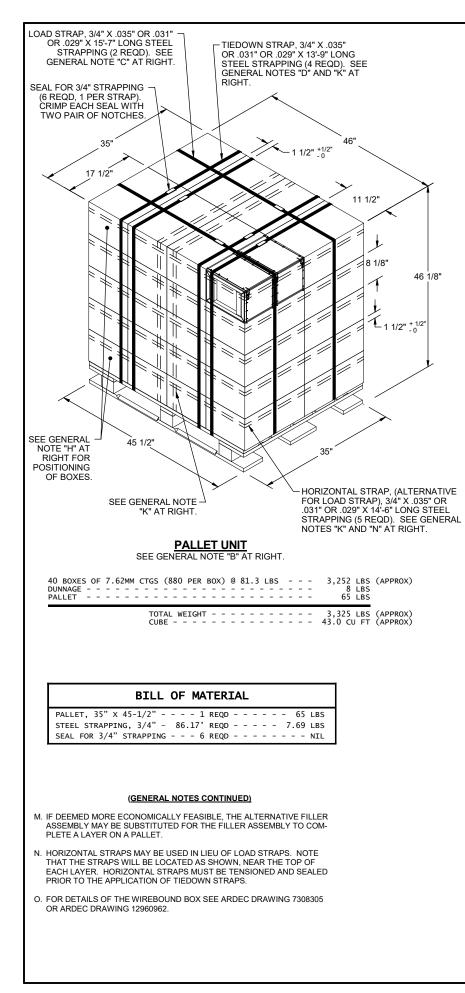
- UNIT DATA" CHART. 2. DELETING ITEMS BY NATIONAL STOCK NUMBER TO THE "PALLET UNIT DATA" CHART.
- 3. UPDATING THE SIGNATURE BLOCKS ON COVER PAGE.

REVISION NO. 13, DATED OCTOBER 2020, CONSISTS OF CHANGES PER ECP R20S3001 INCLUDING:

ADDING ITEM BY NATIONAL STOCK NUMBER TO THE "PALLET UNIT DATA" CHART.

REVISION NO. 14, DATED MARCH 2022, CONSISTS OF CHANGES PER ECP R21K2011 AND R22K3002 INCLUDING:

ADDING ITEM BY NATIONAL STOCK NUMBER TO THE "PALLET UNIT DATA" CHART.



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 PRO-DUCE AN APPROVED UNIT LOAD, ALL PERTINENT PRO-CEDURES, SPECIFICATIONS AND CRITERIA SET FORTH WITHIN THE BASIC DRAWING WILL APPLY TO THE PRO-CEDURES DELINEATED IN THIS APPENDIX. ANY EXCEP-TIONS 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 DIMEN-SIONS OF THE BOXES AND THE WEIGHT OF THE SPECIF-IC ITEM BEING UNITIZED.
- C. THE LOAD STRAPS WILL BE THREADED THROUGH THE STRAP SLOTS OF A PALLET. LOAD STRAPS MUST BE TENSIONED AND SEALED PRIOR TO APPLICATION OF TIEDOWN STRAPS. SEE GENERAL NOTE "J" BELOW FOR AN EXCEPTION TO THIS REQUIREMENT.
- D. INSTALL EACH TIEDOWN STRAP TO PASS UNDER THE TOP DECK BOARDS OF THE PALLET. NOTE THAT THE STRAPS WILL BE LOCATED AS SHOWN, NEAR THE SIDE CLEATS OF THE END PANELS OF THE BOX. 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.

TRUCKLOADING	19-48-4115-5PA1002 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 7.62MM 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 CLASSIFICA-TION OF OTHER ITEMS MAY BE DIFFERENT THAN WHAT IS SHOWN.
- H. POSITION THE TWO OUTBOARD BOXES ON BOTH OF THE 35" SIDES OF THE BOTTOM LAYER OF THE UNIT WITH THE TOPS DOWNWARD, AND THE TWO OUTWARD BOXES ON BOTH OF THE 35" SIDES OF THE TOP LAYER OF THE UNIT WITH TOPS UPWARDS. NOTE THAT THE SPECIFIC POSITIONING OF THE OUTBOARD BOXES IS ONLY A RE-QUIREMENT WHEN UTILIZING LOAD STRAPS. IF THE AL-TERNATIVE HORIZONTAL STRAPS ARE USED IN AC-CORDANCE WITH GENERAL NOTE "N", THE BOXES DO NOT HAVE TO BE POSITIONED AS DESCRIBED ABOVE.
- J. THE STYLE 1A 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. LOAD STRAPS WILL BE PRE-POSITIONED ON THE PALLET DECK PRIOR TO PLAC-ING THE BOXES ON A PALLET WITHOUT STRAP SLOTS.
- K. IF THE PALLET DOES NOT HAVE STRAP SLOTS, AND THE TOTAL WEIGHT OF A 40-BOX UNIT EXCEEDS 2,800 POUNDS, TWO ADDITIONAL TIEDOWN STRAPS MUST BE ADDED. THIS MODIFICATION MUST ALSO BE USED WHEN USING THE ALTERNATIVE HORIZONTAL STRAPS TO SE-CURE A UNIT LOAD EXCEEDING 2,800 POUNDS.
- L. WHEN THE UNIT LOAD DEPICTED AT LEFT IS TO BE USED FOR UNITIZING MARINE CORPS AMMUNITION, ONE LAY-ER OF BOXES MUST BE OMITTED, TIEDOWN STRAP LENGTHS MUST BE DECREASED TO 12'-5", AND LOAD STRAP LENGTHS MUST BE DECREASED TO 14'-2". THIS WILL RESULT IN AN OVERALL UNIT HEIGHT OF 38", A GROSS UNIT WEIGHT OF 2,892 POUNDS, AND A UNIT CU-BE OF 35.4 CUBIC FEET. ADDITIONALLY, THE UNIT MAY BE MODIFIED AS DESCRIBED WHEN BEING SHIPPED BY MILVAN OR ISO INTERMODAL FREIGHT CONTAINER, VAN TRAILER, OR BOXCAR. THE DETERMINATION TO RE-DUCE THE LOAD BY A LAYER FOR TRANSPORTATION WILL BE MADE BY THE RESPONSIBLE COMMAND AND WILL BE BASED UPON ECONOMICS OF TRANSPORTA-TION AND HANDLING.

(CONTINUED AT LEFT)

PAGE 3

DRAWING 19-48-4116/7

