

APPENDIX 8A

UNITIZATION PROCEDURES FOR BOXED WHITE PHOSPHORUS (WP) AND PLASTICIZED WHITE PHOSPHORUS (PWP) LOADED AMMUNITION ON 4-WAY ENTRY PALLETS

CARTRIDGE, 4.2", PACKED 2 PER WOODEN BOX,
UNITIZED 20 BOXES PER 35" X 45 $\frac{1}{2}$ " PALLET;
APPROX BOX SIZE 31 $\frac{3}{8}$ " L X 11 $\frac{7}{8}$ " W X 7 $\frac{3}{8}$ " H

| PALLET UNIT DATA | | | | | | |
|------------------|-------|-----------------------|----------|----------|------------|-----------------|
| ITEMS INCLUDED | | HAZARD CLASSIFICATION | | | | WEIGHT (LBS) |
| NSN | DODIC | DOT CLASS | CG CLASS | QD CLASS | COMP GROUP | |
| 1315- | | | | | | |
| 00-008-7787 | C708 | A | II-D | (12)1.2 | H | 1,590 |
| 00-028-5020 | C708 | A | II-D | (12)1.2 | H | 1,590 |
| 00-465-6032 | C708 | A | II-D | (12)1.2 | H | 1,590 |
| 00-926-1935 | C708 | A | II-D | (12)1.2 | H | 1,590 |
| 00-935-9131 | C708 | A | II-D | (12)1.2 | H | 1,590 |
| 00-935-9214 | C708 | A | II-D | (12)1.2 | H | 1,590 |
| 00-965-0846 | C708 | A | II-D | (12)1.2 | H | 1,590 |

NOTICE: THIS APPENDIX CANNOT STAND ALONE BUT MUST BE USED IN CONJUNCTION WITH THE BASIC UNITIZATION PROCEDURES DRAWING 19-48-4015-20PA1004.

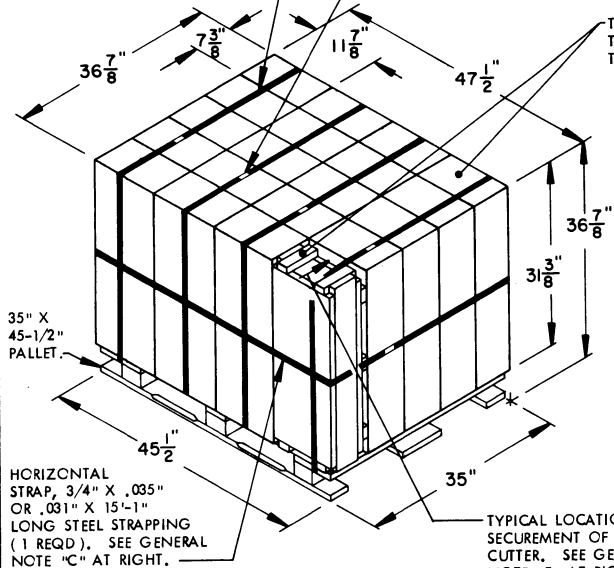
| REVISIONS | | | | DRAFTSMAN <i>Dier</i> / JC | PROJ ENG <i>WRF/WRF</i> |
|--|-------|----------|-------------|---|--|
| | | | | CHECKER <i>GREG</i> | LOG ENGRS OFFICE <i>W. J. Emery</i> |
| APPROVED, U. S. ARMY ARMAMENT MATERIEL READINESS COMMAND | | | | | |
| | | | | <i>D. M. Masterson</i> DRBAR - LEP DRBAR - TMD | |
| APPROVED BY ORDER OF COMMANDING GENERAL, U. S. ARMY MATERIEL DEVELOPMENT AND READINESS COMMAND (DARCOM) | | | | | |
| | | | | <i>John L. Synnott</i> U. S. ARMY DEFENSE AMMUNITION CENTER AND SCHOOL | |
| U. S. ARMY DARCOM DRAWING | | | | | |
| FEBRUARY 1983 | | | | | |
| | CLASS | DIVISION | DRAWING | FILE | |
| | 19 | 48 | 4015/ 8A | 20PA 1004 | |

DO NOT SCALE

TIEDOWN STRAP, 3/4" X .035" OR .031" X 12'-6" LONG STEEL STRAPPING (4 REQD). SEE GENERAL NOTE "D" AT RIGHT.

SEAL FOR 3/4" STRAPPING (5 REQD, 1 PER STRAP). CRIMP EACH SEAL WITH TWO PAIR OF NOTCHES.

TOP CLEATS ON THE BOXES IN THE OUTSIDE STACKS WILL BE TURNED INWARD.



PALLET UNIT

SEE GENERAL NOTE "B" AT RIGHT.

20 BOXES OF 4.2" CARTRIDGES (2 PER BOX) @ 76 LBS -----1,520 LBS (APPROX)
 DUNNAGE-----5 LBS
 PALLET-----65 LBS

TOTAL WEIGHT-----1,590 LBS (APPROX)
 CUBE-----37.4 CU FT (APPROX)

BILL OF MATERIAL

| | | |
|-------------------------|-------------|----------|
| PALLET, 35" X 45-1/2" | 1 REQD | 65 LBS |
| STEEL STRAPPING, 3/4" | 65.08' REQD | 4.65 LBS |
| SEAL FOR 3/4" STRAPPING | 5 REQD | NIL |

TIE PIECE, 1" X 4" X BOX HEIGHT (2 REQD). NAIL TO LONGITUDINAL PIECES W/2-6d NAILS AT EACH END AND TO LATERAL PIECE W/1-6d NAIL.

LONGITUDINAL PIECE, 2" X 4" X BOX WIDTH (4 REQD). NAIL TO VERTICAL PIECES W/2-10d NAILS AT EACH END.

FILL PIECE, 2" X 4" X CUT-TO-FIT IN LENGTH (AS REQD). NAIL TO A VERTICAL PIECE W/2-10d NAILS. NOTE: WHEN A UNIT HAS MORE THAN TWELVE BOXES OMITTED, THE FILLER ASSEMBLY OR ASSEMBLIES LOCATED IN AN OUTER STACK ON THE 45-1/2" SIDE OR SIDES OF THE PALLET WILL REQUIRE FILL PIECES AS SHOWN.

VERTICAL PIECE, 2" X 4" X BOX LENGTH MINUS 3/4" (4 REQD).

STRAP BEARING PIECE, 2" X 4" X BOX HEIGHT MINUS 3" (AS REQD). NAIL TO VERTICAL PIECES W/2-10d NAILS AT EACH END. NOTE: WHEN A UNIT HAS MORE THAN SIX BOXES OMITTED, THE FILLER ASSEMBLY OR ASSEMBLIES LOCATED IN AN OUTER STACK ON THE 35" SIDE OF THE PALLET WILL REQUIRE A "STRAP BEARING PIECE" UNDER THE HORIZONTAL STRAP. STAPLE STRAP TO "STRAP BEARING PIECE".

LATERAL PIECE, 2" X 4" X BOX HEIGHT MINUS 3" (4 REQD). NAIL TO VERTICAL PIECES W/2-10d NAILS AT EACH END.

FILLER ASSEMBLY

(FOR MINUS ONE BOX)

GENERAL NOTES

A. THIS APPENDIX CANNOT STAND ALONE BUT MUST BE USED IN CONJUNCTION WITH THE BASIC UNITIZATION PROCEDURES DRAWING 19-48-4015-20PA1004. 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 THE HORIZONTAL STRAP TO ENCIRCLE THE LAYER OF BOXES ON THE PALLET. HORIZONTAL STRAP 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 STRAP HAS BEEN TENSIONED AND SEALED.

E. THE FOLLOWING DARCOM DRAWINGS ARE APPLICABLE FOR OUTLOADING AND STORAGE OF THE ITEMS COVERED BY THIS APPENDIX.

| | |
|--------------------|--|
| CARLOADING ----- | DRAWING 19-48-4115-5PA1002 |
| TRUCKLOADING ----- | DRAWING 19-48-4117-11PA1003 |
| STORAGE----- | DRAWING 19-48-4118-1-2-3-4-14-22PA1002 |

F. FOR METHOD OF SECURING A STRAP CUTTER TO THE PALLET UNIT, SEE DARCOM DRAWING 19-48-4127-20P1000.

G. 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 4.2" CARTRIDGES WHEN IDENTIFIED BY DIFFERENT NATIONAL STOCK NUMBERS (NSN) THAN WHAT IS SHOWN ON THE TITLE PAGE, 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. IF THERE IS A NEED TO USE FILLER ASSEMBLIES AND AT LEAST TWO PALLET UNITS ARE BEING CONSTRUCTED, NOT MORE THAN 16 FILLERS WILL BE INSTALLED IN ANY ONE PALLET UNIT. ADDITIONAL FILLERS CAN BE PUT IN A SECOND PALLET UNIT AS REQUIRED WHEN THE QUANTITY OF 16 FILLERS IN THE FIRST REDUCED PALLET UNIT IS INSUFFICIENT TO SATISFY THE TOTAL REDUCTION NEEDED. USING TWO PALLET UNITS TO SATISFY THE PALLETIZATION CRITERIA APPLICABLE TO LESS-THAN-FULL PALLET UNITS IS AN EXCEPTION TO THE BASIC PROCEDURES. HOWEVER, THE EXCEPTION IS NECESSARY FOR THE AMMUNITION PACK COVERED BY THIS APPENDIX, TO MOST EFFECTIVELY GET AN ACCEPTABLE, COMPACT AND SOUND PALLET UNIT.