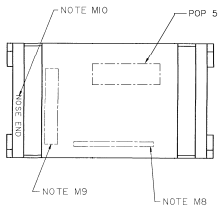
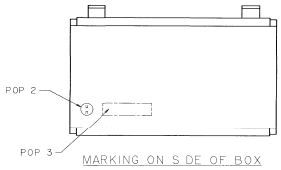
DRAWING SIZE F

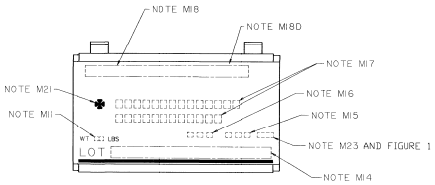
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
	BD	NOR M3K3019 930722	930907	RLV
	BE	NOR R7K2024 970703 (ECP R7K2028 970729)	970827	TPT
	BF	NOR R1K2045 010412	010528	TPT
	BG	NOR R1K2046 010608	010710	FET
	BH	NOR R1K3002 010816	010826	RLV
	BJ	NOR R1K3007/020313	020401	HJS
	BK	NOR R2K2047 021220	030227	TPT
	BL	NOR R3K3016 030303	030501	BAC
	BM	NOR R06C5002 060613	060621	BMG
	BN	NOR R06K3014 061117	061121	TPT
	BP	NOR R07K3016/071218	080125	HJS
	BR	NOR R08L3007/090421	090528	BAC
	BT	NOR R08K3014/090713	090721	GJC



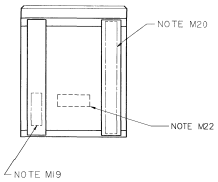
MARKING ON TOP OF BOX



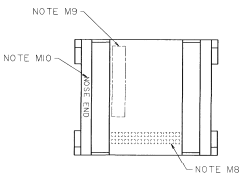
MARKING ON S DE OF BOX



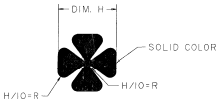
MARKING ON SIDE OF BOX



MARKINGS ON BOTH ENDS OF BOX



MARKING ON TOP OF SMALL BOXES



NATO SYMBOL OF INTERCHANGEABILITY
(NOTE M21)

DIM H- NOT LESS THAN HEIGHT NOR MORE THAN TWICE HEIGHT OF NOMENCLATURE MARKING

BT	BT	BT	BT
SH 1	SH 2	SH 3	SH 4
REVISION STATUS OF SHEETS			

CURRENT DESIGN ACTIVITY FROM NE:18260
U.S. ARMY
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
PICATINNY ARSENAL, NEW JERSEY 07806-5000

"EXAMPLE"

PLACEMENT OF BAR CODE LABELS ON WOOD BOXES

FIGURE 1

PART NO. 8796522

PMC		DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMAL ± FRACTION ± 3 PL ± 3 PL ±	CONTRACT NUMBER / CONTRACTOR
MECHANICAL PROPERTIES		THIRD ANGLE PROJECTION	DRAWN BY D.C. / DATE (YR-MO-DY) 91 AUG 19 / ENGINEER A.S. / CHECKER E.C.B. / DESIGNER H.M. WEINER / DESIGN APPROVAL P. KORMAN
YP			
TS			
EL			
RA			
BH			
RH		NEXT ASSY / USED ON APPLICATION	MATL ENGR

DESIGN ACTIVITY
PICATINNY ARSENAL DOVER, NEW JERSEY

MARKING DIAGRAM AND SEALING FOR WOOD PACKING BOXES

SIZE F | CODE IDENT 19203 | 8796522

SCALE – | UNIT WT | SHEET 1 OF 4

DISTRIBUTION STATEMENT A.
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January 08, 2014 12:57:26 [FILE]

DRAWING SIZE F

REVISIONS					
ZONE	LTR	DESCRIPTION	DATE (YR MO DA)	APPROVED
	BD	NOR M3K3019 930722	930907	RLV
	BE	NOR R7K2024 970703 (ECP R7K2028 970729)	970827	TPT
	BF	NOR R1K2045 010412	010528	TPT
	BG	NOR R1K2046 010608	010710	FET
	BH	NOR R1K3002 010816	010925	RLV
	BJ	NOR R1K3007/020313	020401	HJS
	BK	NOR R2K2047 021220	030227	TPT
	BL	NOR R3K3016 030303	030501	BAC
	BM	NOR R06G5002 060613	060621	BMG
	BN	NOR R06K3014 061117	061121	TPT
	BP	NOR R07K3016/071218	080125	HJS
	BR	NOR R08S3007/090421	090528	BAC
	BT	NOR R08K3014/090713	090721	GJC

PACKAGING COMPONENTS
SEAL, METALLIC -8794342

PACKING FOR LIGHT BOXES 9325874

NOTES: -

1- MATERIAL: INK, BLACK NO. 37038, IAW CID A-A-59383.
   A. ALTERNATIVE MATERIAL: PAINT, STENCIL, FLAT, BLACK NO. 37038, IAW CID A-A-1558.
   B. ALTERNATIVE MATERIAL: INK, STENCIL, BLACK NO. 37038, TYPE II, III OR IV, IAW CID A-A-208.

2- MATERIAL: PAINT, STENCIL, FLAT, ORANGE NO. 32246, IAW CID A-A-1558.
   A. ALTERNATIVE MATERIAL: PAINT, STENCIL, FLAT ORANGE NO. 342246, IAW CID A-A-1558.
   B. ALTERNATIVE MATERIAL: INK, STENCIL, ORANGE NO. 32246 TYPE II, III OR IV, IAW CID A-A-208.

3- MATERIAL: STRAPPING, FLAT, METALLIC AND SEALS, REGULAR DUTY, PER ASTM D3953
   A. FINISH B (GALVANIZED), GRADE 2, TYPE I, USED FOR OCONUS (LEVEL A OR B)
   B. FINISH A (ORGANIC) MAY BE USED FOR CONUS SHIPMENTS (LEVEL C).

4- MATERIAL: STRAPPING, WIRE, ROUND, CLASS 1, HARD, ASTM A641/641M
   A. WIRE OF DIAMETER BETWEEN 0.04 AND 0.182 INCHES MAY BE USED.
   B. THE STRAPPING USED WILL HAVE TO PASSED THE NOMINAL DIAMETER, TENSILE STRENGTH, AND COATING TESTS OF ASTM A641/641M.
   C. TENSILE STRENGTH REQUIRED: 90,000 PSI MIN.

5- MATERIAL: STRAPPING, NON-METALLIC, TYPE III OR IV OF ASTM D3950.

6- MATERIAL: LABEL, BAR CODE, IAW DRAWING 12999545.

MARKING INSTRUCTIONS

M1- THE MARKING OF WOOD SHIPPING BOXES FOR AMMUNITION ITEMS SHALL BE PLACED ON TOP, ONE SIDE AND BOTH ENDS. (BOTH ENDS TO BE MARKED ALIKE) IN ACCORDANCE WITH TYPICAL MARKING DIAGRAMS, NOTES AND MARKING INSTRUCTIONS CONTAINED ON THIS DRAWING AND APPLICABLE PACKING AND MARKING BOX DRAWING.

M2- LETTERS AND FIGURES SHALL BE MARKED WITH BLACK STENCIL INK. (NOTE 1). MARKING SHALL BE APPLIED BY STAMPING OR STENCILING. HAND LETTERING OR LABELING OF EXTERIOR CONTAINERS IS NOT AUTHORIZED FOR AMMUNITION AND EXPLOSIVE (CLASS V) ITEMS.

M3- THE DESIRED HEIGHT OF LETTERS AND FIGURES AND MINIMUM SIZE ALLOWED ARE AS FOLLOWS: -

MARKING	DESIRED SIZE	MINIMUM SIZE
A- NATIONAL STOCK NUMBER AND D.O.D. IDENTIFICATION CODE (DODIC)	1. INCH HIGH	7/16 INCH HIGH
B- LOT NUMBER	1. INCH HIGH	1. INCH HIGH

THE LETTERS AND FIGURES OF THE LOT NUMBER MAY BE 7/16 INCH MIN HEIGHT ON CLEATS OF SHALLOW DEPTH BOXES AND ON SIDE OF BOXES ONLY IN CASES WHERE ALLOWABLE SPACE IS INSUFFICIENT FOR 1 INCH CHARACTERS.

MARKING	DESIRED SIZE	MINIMUM SIZE
C- DESCRIPTIVE NOMENCLATURE, CALIBER AND WEAPON DESIGNATION	1. INCH HIGH	7/16 INCH HIGH
D- ALL OTHER MARKING		7/16 INCH HIGH

E- THE SIZES AND SPACES OF LETTER BLOCKS ARE REPRESENTATIVE OF STANDARD MACHINE CUT STENCIL LETTERING.

F- DEVIATIONS IN SIZE OF LETTERS AND FIGURES WITHIN LIMITS SPECIFIED ABOVE WILL BE PERMITTED WHEN SIZE OF BOX IS SUCH THAT THE DESIRED SIZE SPECIFIED IS NOT PRACTICAL.

G- WHEN NECESSARY TO DEVIATE FROM DESIRED SIZE, THE SIZE OF THE LETTERING SELECTED SHALL BE THE LARGEST PRACTICAL FOR THE PACKAGE SIZE, WITHIN THE ACCEPTABLE RANGE OF THE DESIRED SIZE AND THE MINIMUM. IF THE NOMENCLATURE MARKING CANNOT FIT ON ONE LINE, A SECOND LINE MAY BE USED.

H- THE RELATIVE POSITIONS OF THE VARIOUS MARKING SHALL BE AS SHOWN. STRAP POSITIONS AND MARKING SCHEME SHALL BE PLANNED OUT AHEAD OF TIME SO THAT THE STRAPPING DOES NOT INTERFERE WITH BOX MARKINGS. MARKINGS WILL BE SEPARATED, AS NEEDED, TO PROVIDE A 1.5" VERTICAL AREA, VOID OF MARKINGS, WHERE THE STRAP(S) WILL BE PLACED ONCE SECURED.

J- THE MARKING BLOCKS [ ] SHOWN ARE FOR ILLUSTRATION PURPOSES ONLY AND DO NOT NECESSARILY REPRESENT THE REQUIRED INFORMATION TO BE ENTERED.

K- LETTER SIZE FOR POP SYMBOL INFORMATION MUST BE AT LEAST 1/2 INCH HIGH FOR BOXES WEIGHING OVER 30 KG (66 LBS). FOR BOXES UNDER 30 KG (66 LBS), THE LETTER SIZE MAY BE REDUCED TO A MINIMUM OF 1/4 INCH IF ABSOLUTELY NECESSARY DUE TO SPACE RESTRAINTS.

L- PUNCTUATION MARKS (E.G. COMMAS(,), PERIODS (.), DASHES(-)) SHALL NOT BE MARKED ON THE PACKAGE UNLESS SPECIFICALLY INSTRUCTED. EXCEPTION: THE MARKINGS FOR THE PROPER SHIPPING NAME WILL INCLUDE ALL PUNCTUATION.

M4- WHEN HINGE AND HASP FITTINGS ARE USED, THE MARKING SHALL APPEAR ON THE SIDE TO WHICH THE HASP IS FASTENED.

M5- WHEN FLAT BAND STRAPPING IS USED, LOCATE MARKING WITH CLEAR SPACE 1. INCH WIDE AT STRAPPING LOCATION.

M6- THE WORDS "FLASHLESS" OR "SMOKELESS" WHEN REQUIRED IN THE DESCRIPTIVE NOMENCLATURE OF THE ITEM PACKED WILL BE SPELLED OUT COMPLETELY. THE WORDS "FLASHLESS-SMOKELESS" MAY BE ABBREVIATED WHEN NECESSARY, AS FOLLOWS- "FLHLS-SMKLS".

M7- MARKING SHALL NOT BE EMBOSSED OR INDENTED BELOW THE SURFACE OF THE WOOD.

M8- INSERT PROPER SHIPPING NAME AND IDENTIFICATION NUMBER AS REQUIRED BY PACKING AND MARKING BOX DRAWING. PROPER SHIPPING NAME AND IDENTIFICATION NUMBER ARE TO BE SEPARATED WITH A SPACE. A SPACE SHALL ALSO BE BETWEEN THE "UN" (OR "NA") AND THE FOUR DIGIT NUMERAL IN THE IDENTIFICATION NUMBER (EXAMPLE: UN 0012 NOT UN0012)"
   A- MAY BE PLACED GIRTHWISE ON COVER.
   B- ALTERNATIVE: FOR SMALL BOX WITH TOP HANDLES, MAY BE PLACED ON SIDE OF BOX, SPACED 1/4 INCH MINIMUM FROM TOP EDGE WITH OTHER MARKING PRESCRIBED FOR SIDE OF BOX PLACED BELOW PROPER SHIPPING NAME/IDENTIFICATION NUMBER MARKING SPACED AS SHOWN.

M9- APPLY THE STORAGE TEMPERATURE LIMIT INDICATED, WHEN PACKING ROCKET AMMUNITION (INCLUDING ROCKETS, ROCKET MOTORS AND JATO UNITS) CONTAINING NITROCELLULOSE PROPELLANT. STORAGE TEMPERATURE LIMITS SHALL BE INCLOSED IN A SQUARE WITH THE WORDS "STORAGE TEMPERATURE LIMITS". THE TEMPERATURE SHALL BE INDICATED BY A FIGURE FOLLOWED BY THE LETTER "C" (CELSIUS) OR "F" (FAHRENHEIT) AS APPROPRIATE.

M10- WHEN ROCKET AMMUNITION (INCLUDING ROCKETS, ROCKET MOTORS AND JATO UNITS) IS PACKED, END OR SIDE EDGE OF BOX TOP OVER NOSE OF ROCKET AMMUNITION MUST BE MARKED "NOSE END". WHEN WP SMOKE ARTILLERY AMMUNITION IS PACKED, COVER OF END OF BOX TOWARD WHICH FUZE IS POINTED MUST BE MARKED "NOSE END". MARKING MAY BE PLACED AT EITHER END OF BOX TO COINCIDE WITH AMMUNITION POSITION.

M11- INSERT GROSS WEIGHT BY WEIGHING TWO REPRESENTATIVE SAMPLES AND AVERAGING THE WEIGHT. THE CAPITAL LETTERS "WT" SHALL PRECEDE THE NUMERICAL GROSS WEIGHT, EXPRESSED IN POUNDS, ROUNDED TO THE NEAREST WHOLE NUMBER FOLLOWED BY THE CAPITAL LETTERS "LBS".

M12-

M13- WHEN THE ITEM BEING PACKED HAS AN ASSIGNED SERIAL NUMBER, THE SERIAL NUMBER SHALL BE MARKED ON THE SIDE OF THE BOX DIRECTLY ABOVE THE LOT NUMBER. THE SERIAL NUMBER SHALL BE PRECEDED BY THE LETTERS "SER" AND SHALL BE MARKED IN THE SAME SIZE LETTERING AS INDICATED FOR THE LOT NUMBER. IF MULTIPLE SERIAL NUMBERS ARE PACKED IN ONE BOX, ALL SERIAL NUMBERS MUST BE MARKED ON THE BOX.

M14- INSERT LOT NUMBER PRECEDED BY THE WORD "LOT". UNDERLINE ON SIDE OF BOX ONLY WITH A SOLID LINE 1/8 INCH WIDE MIN.

M15- INSERT ZONE MARKING, IF APPLICABLE. THE ZONE MARKING WILL BE MARKED ON THE BOX WHEN INDICATED ON THE PROJECTILE PACKED. SOLID SQUARES OF THE SAME COLOR AS THE OTHER LETTERING ON THE BOX SHALL BE USED TO INDICATE THE WEIGHT ZONE OF ALL AMMUNITION.

M16- INSERT BURSTING CHARGE, IF APPLICABLE. THE BURSTING CHARGE WILL BE MARKED ON THE BOXES OF ALL HIGH EXPLOSIVE AMMUNITION.

M17- INSERT APPROPRIATE QUANTITY, DESCRIPTIVE NOMENCLATURE, CALIBER AND WEAPON DESIGNATION AS SHOWN ON APPLICABLE PACKING AND MARKING BOX DRAWING.

M18- INSERT NATIONAL STOCK NUMBER AND D.O.D. IDENTIFICATION CODE (DODIC) TO BE LOCATED AS FOLLOWS: -
   A- IN LINE WITH THE HASP ON SHALLOW DEPTH BOXES.
   B- WILL READ ON ONE CONTINUOUS LINE BUT MAY BE PLACED BELOW HARDWARE ON SMALL BOXES OF INSUFFICIENT LENGTH.
   C- TO BE PLACED ON THE TOP LINE OF THE MARKING ON THE SIDE OF THE BOX.
   D- THE (DODIC) WILL BE SET APART FROM NSN BY A DASH.

M19- INSERT D.O.D. IDENTIFICATION CODE (DODIC) IF APPLICABLE. (DODIC) STARTS AT BOTTOM OF CLEAT OR END BATTEN (WIREBOUND BOXES).

M20- INSERT LOT NUMBER. THE WORD "LOT" SHALL NOT BE USED. LOT NUMBERS SHALL BE ON ONE OR TWO LINES STARTING AT BOTTOM OF END CLEAT OR END BATTEN (WIREBOUND BOXES.) WHEN TWO LINES ARE USED, LOT NUMBER SHALL BE DIVIDED BETWEEN DATE DESIGNATION AND LOT INTERFIX NUMBERS.

M21- MARK ONLY WHEN REQUIRED BY ITEM SPECIFICATION OR PACKING AND MARKING BOX DRAWING. APPLY NATO SYMBOL OF INTERCHANGEABILITY TO LEFT (AS SHOWN) OR RIGHT OF NOMENCLATURE ON SIDE OF BOX USING SAME INK AND COLOR AS REQUIRED FOR LETTERING. IF SPECIFIED, SYMBOL MAY BE COMPLETELY ENCLOSED IN A BOX MADE FROM A SOLID BLACK LINE APPROXIMATELY 1/8 INCH WIDE.

M22- ALL NON-MANUFACTURED WOOD USED IN THE PACKAGING SHALL BE HEAT TREATED TO A CORE TEMPERATURE OF 56 DEGREES CELSIUS FOR A MINIMUM OF 30 MINUTES. THE BOX MANUFACTURER AND THE MANUFACTURER OF WOOD USED AS INNER PACKAGING SHALL BE AFFILIATED WITH AN INSPECTION AGENCY ACCREDITED BY THE AMERICAN LUMBER STANDARDS COMMITTEE. THE BOX MANUFACTURER AND THE MANUFACTURER OF WOOD USED AS INNER PACKAGING SHALL ENSURE TRACEABILITY TO THE ORIGINAL SOURCE OF HEAT TREATMENT. EACH BOX SHALL BE MARKED TO SHOW THE CONFORMANCE TO THE INTERNATIONAL PLANT PROTECTION CONVENTION STANDARD. BOXES AND ANY WOOD USED AS INNER PACKAGING MADE OF NON-MANUFACTURED WOOD SHALL BE HEAT TREATED. THE QUALITY MARK SHALL BE PLACED ON BOTH ENDS OF THE OUTER PACKAGING, BETWEEN THE END CLEATS OR END BATTENS.

M23- IN ADDITION TO ALL OTHER MARKINGS, EVERY BOX SHALL HAVE BAR CODE LABELS APPLIED TO THE BOX IAW DRAWING 12999545.

CORRECTION OF MARKING AND REMARKING

WHEN MARKING IS TO BE CORRECTED OR RE-PLACED, THE OLD MARKING SHALL BE EITHER SANDED OFF OR OBLITERATED SO THAT NO "SHOW-THROUGH" IS VISIBLE. NEW MARKING SHALL BE APPLIED AS STATED HEREON. RE-MARKING THROUGHOUT A LOT SHALL BE UNIFORM, CLEAN AND CLEARLY LEGIBLE. RE-MARKING TO CORRECT POOR WORKMANSHIP SHALL BE KEPT TO A MINIMUM. RE-MARKING MAY BE ACCOMPLISHED THROUGH COMPLETE OBLITERATION OF A PANEL OR SPOT OBLITERATION AS DEEMED ACCEPTABLE BY THE RESPONSIBLE GOVERNMENT ACTIVITY. OBLITERATING MATERIALS SUCH AS LACQUER, ENAMEL, OR PAINTS SHALL APPROXIMATE THE COLOR OF THE CONTAINER.

DISTRIBUTION STATEMENT A.
APPROVED FOR PUBLIC RELEASE;
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CURRENT DESIGN ACTIVITY FSCM NO.19200
U.S. ARMY
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
PICATINNY ARSENAL, NEW JERSEY 07806-5000

PART NO. 8796522

PMIC
MECHANICAL PROPERTIES
YP / TS / EL2 / RA / BH / RH

NEXT ASSY | USED ON
APPLICATION

DO NOT SCALE DRAWING
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON DECIMAL / FRACTION
2 PL ± ±
3 PL ±
THIRD ANGLE PROJECTION
MATL ENGR

CONTRACT NUMBER
CONTRACTOR
DRAWN BY D.C. | DATE (YR-MO-DA) 21 AUG 1947
CHECKER A.S. | ENGINEER N.E./C.B.
DRAWING APPROVAL H.M. WEINER
DESIGN APPROVAL P. KORMAN

DESIGN ACTIVITY
PICATINNY ARSENAL DOVER, NEW JERSEY

MARKING DIAGRAM AND SEALING FOR WOOD PACKING BOXES

SIZE F | CAGE CODE 19203 | 8796522
SCALE – | UNIT WT. | SHEET 2

SMCAR FORM 69, 1 DEC 87(TEMP) REPLACES SMCAR FORM 69, 1 JUL 87(TEMP)
WHICH MAY BE USED UNTIL EXHAUSTED

January 08, 2014 12:58:43 [FILE (1)]

DRAWING SIZE F

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
	BD	NOR M3K3019 930722	930907	[illegible]
	BE	NOR R7K2C24 970703 (ECP R7K2028 970729)	970827	TPT
	BL	NOR R3K3C16 030303	030501	BAC
	BT	NOR R08K3014/090713	090721	GJC

MARKING INSTRUCTIONS FOR INTERPLANT SHIPMENT

MIS 1- WHEN THE ITEMS PACKED ARE INTENDED ONLY FOR INTERPLANT SHIPMENT THE INFORMATION REQUIRED ON THIS DRAWING, EXCEPT FOR PROPER SHIPPING NAME AND IDENTIFICATION NUMBER AND POP MARKING, MAY BE PLACED ON LABELS.

MIS 2- TWO LABELS SHALL BE SECURELY ATTACHED TO EACH BOX. ONE LABEL SHALL BE ATTACHED TO THE FRONT (HASP) SIDE AND ONE ON THE END OF THE BOX TO THE RIGHT OF THE FRONT. IF END PLACEMENT IS IMPRACTICAL, THE END LABEL MAY BE PLACED ON THE BOX TOP CLEARLY SEPARATED FROM PROPER SHIPPING NAME/IDENTIFICATION NUMBER MARKING.

MIS 3- LETTER HEIGHT SPECIFIED IN MARKING INSTRUCTIONS DO NOT APPLY TO LABELS.

MIS 4- LABELS SHALL BE ATTACHED BY ANY METHOD WHICH WILL PERMIT EASY REMOVAL I.E. TACKS, STAPLES.

MIS 5- PROPER SHIPPING NAME AND IDENTIFICATION NUMBER AND POP MARKING MUST BE APPLIED DIRECTLY TO THE BOX AS SHOWN.

MIS 6- WHEN SPECIFIED ON PACKING AND MARKING DRAWING. THE WORDS "FOR CONUS SHIPMENT ONLY" SHALL BE APPLIED TO THE BOX DIRECTLY BELOW THE PO MARKING.

MARKING INSTRUCTIONS FOR METAL PARTS SHIPMENT

MMP 1- WHEN METAL PARTS ARE SHIPPED IN ISSUE ITEM BOXES, MARKING INFORMATION WILL BE APPLIED ON BOX LABELS.

MMP 2- ATTACH 2 LABELS (NOTES MIS 2, MIS 3, MIS 4)

MMP 3- LETTER HEIGHT WILL BE 1/4 INCH MINIMUM.

MMP 4- THE FOLLOWING INFORMATION WILL BE SHOWN:

PART NUMBER
(QUANTITY: (NOMENCLATURE)
LOT NO. [ ]
CONTRACT NO:
WT:

MARKING INSTRUCTIONS FOR LESS THAN FULL BOXES

MLF 1- WHEN LESS THAN FULL BOX (LIGHT BOX) OF ANY AMMUNITION ITEM IS PACKED IN A BOX LESS THAN THREE CUBIC FEET, THE BOX SHALL BE PAINTED ORANGE AND APPROPRIATELY MARKED (NOTES 2 AND MLF 2).

MLF 2- "THE WORDS "LIGHT BOX" SHALL BE MARKED ON THE TOP AND THE SIDE OF THE BOX THAT CONTAINS THE IDENTIFICATION MARKING, IF SPACE PERMITS. IF THERE IS NO SPACE, THE LIGHT BOX MARKINGS SHALL BE PLACED ON THE ADJACENT END PANEL. THE SIZE OF THE LETTERING IS THE SAME AS USED FOR NOMENCLATURE MARKINGS (NOTE 1)".

MLF 3- FOR DEFINITION AND PACKING OF LIGHT BOX SEE DWG 9325874 (REF)

MLF 4- A LIGHT BOX 3 CUBIC FEET OR LARGER SHALL BE IDENTIFIED BY MARKING THE WORDS "LIGHT BOX" IN ORANGE, NOTE 2, ON THE TOP, BOTTOM, SIDES, AND ENDS OF THE BOX IN THE LARGEST PRACTICAL LETTERS. (SKIDDED CONTAINERS SHALL NOT BE MARKED ON THE BOTTOM.)

MARKING FOR PERFORMANCE ORIENTED PACKAGING

POP 1- WHEN SPECIFIED ON THE APPLICABLE PACKING AND MARKING DRAWING, PERFORMANCE ORIENTED PACKAGING (POP) MARKINGS SHALL BE APPLIED TO THE SIDE OF THE BOX OPPOSITE THE NOMENCLATURE MARKING. LETTERS AND CHARACTERS SHALL BE 1/2 INCH MINIMUM AND BE THE SAME COLOR AS THE NOMENCLATURE MARKING.

POP 2- INSERT THE (u/n) SYMBOL. THE LETTERS "u" AND "n" SHALL BE LOWER CASE AND ENCLOSED IN A CIRCLE OF SUFFICIENT SIZE TO PROVIDE A MINIMUM CLEAR SPACE AROUND THE LETTERS "u" AND "n".

POP 3- THE UN POP MARKING CODE AS SPECIFIED ON THE PACKING AND MARKING DRAWING WILL BE INSERTED TO THE RIGHT OF THE (u/n) SYMBOL.

POP 4- PERFORMANCE ORIENTED PACKAGING (POP) VERIFICATION. IN NO CASE SHALL A CONTAINER BE SHIPPED IF THE GROSS WEIGHT MARKED ON THE PACKAGE IS GREATER THAN THE POP CERTIFIED WEIGHT. IF THE AVERAGE GROSS WEIGHT OF THE PACKED CONTAINERS (DETERMINED BY WEIGHING TWO REPRESENTATIVE SAMPLES AND AVERAGING THE WEIGHT) IS GREATER THAN THE CERTIFIED WEIGHT, CONTAINER MARKING OPERATIONS SHALL CEASE AND THE PROCURING ACTIVITY SHALL BE CONTACTED IMMEDIATELY.

POP 5- IF THE EXTERIOR CONTAINER IS AN OVERPACK CONTAINING "POP" MARKED AND CERTIFIED INNER CONTAINERS, "OVERPACK" SHALL BE PLACED ON THE WOOD BOX. THE MARKING SHALL BE A MINIMUM TWO INCH HEIGHT LETTERS.

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CURRENT DESIGN ACTIVITY FSCM NO.19200
U.S. ARMY
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
PICATINNY ARSENAL, NEW JERSEY 07806-5000

PART NO. 8796522

PMIC		DO NOT SCALE DRAWING	CONTRACT NUMBER	DESIGN ACTIVITY	
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON DECIMAL FRACTION 2 PL ± ± 3 PL ±	CONTRACTOR	PICATINNY ARSENAL DOVER, NEW JERSEY	
MECHANICAL PROPERTIES		THIRD ANGLE PROJECTION	DRAWN BY D.C. DATE(YR-MO-DA) 21 AUG 1947	MARKING DIAGRAM AND SEALING FOR WOOD PACKING BOXES	
YT			CHECKER A.S. ENGINEER N.E./C.B.		
YS			DRAWING APPROVAL H.M. WEINER		
EL-2					
RA					
BH		NEXT ASSY / USED ON	MAT'L ENGR	SIZE F / CAGE CODE 19203	8796522
RH		APPLICATION	DESIGN APPROVAL F. KORMAN	SCALE – / UNIT WT. / SHEET 3	

SMCAR FORM 69, 1 DEC 87(TEMP) REPLACES SMCAR FORM 69, 1 JUL 87(TEMP)
WHICH MAY BE USED UNTIL EXHAUSTED

DRAWING SIZE F

ZONE	LTR	REVISIONS DESCRIPTION	DATE YR MO DA	APPROVED
	BD	NOR M3K3819 930722	930907	PCL/ PMR
	BE	NOR R7K2024 970703 (ECP R7K2028 970729)	970827	TPT
	BK	NOR R2K2047 021220	030227	TPT
	BP	NOR R07K3014/071218	080125	HJS
	BT	NOR R08K3014/090713	090721	GJC

SEALING INSTRUCTIONS (NAILED WOOD)

SN 1- METHOD OF SEALING HASP AND HINGE HARDWARE:

A- CLOSE COVER, FASTEN HASP WITH SWIVELS AND PASS METALLIC SEAL WIRE THROUGH EYELETS OF HASPS AND SWIVELS.

B- WITH WIRE PULLED TIGHT, SECURE METALLIC SEAL WITH SEALING TOOL IN ACCORDANCE WITH DWG 8794342.

C- METALLIC SEAL SHALL BE APPLIED IN A MANNER THAT THE ONLY MEANS OF OPENING/REMOVING THE SEAL WILL BE TO DESTROY THE SEAL OR TO CUT THE WIRE. ANY IMPROPERLY CRIMPED AND/OR LOOSE SEALS DETECTED AT THE LOAD PLANT SHALL BE DISCARDED AND A NEW SEAL APPLIED CORRECTLY.

SN 2-

SN 3- STRAPPING OF BOX:

A- ALL BOXES SHALL BE STRAPPED GIRTHWISE WITH THE STRAPPING BEING APPLIED OVER THE SIDES, TOP AND BOTTOM. UNLESS OTHERWISE SPECIFIED, BOXES LESS THAN 18 INCHES IN OVERALL LENGTH SHALL HAVE ONE STRAP; BOXES 18 TO 36 INCHES IN LENGTH SHALL HAVE TWO STRAPS; BOXES OVER 36 INCHES IN LENGTH SHALL HAVE THREE STRAPS. STRAPPING SHALL BE EITHER ROUND WIRE (NOTE 4) OR FLAT STEEL (NOTE 3). BOXES REQUIRING ONE STRAP SHALL HAVE THE STRAP PLACED AT THE CENTER OF THE BOX OR ADJACENT TO THE HASP WHEN HARDWARE IS USED. BOXES REQUIRING TWO STRAPS SHALL HAVE THE STRAPS LOCATED JUST INSIDE THE COVER CLEATS OR BETWEEN THE COVER CLEATS AND THE HINGES WHEN HARDWARE IS USED. BOXES REQUIRING THREE STRAPS SHALL HAVE TWO STRAPS PLACED AS DESCRIBED FOR THE TWO STRAP BOX AND THE THIRD STRAP PLACED AS DESCRIBED FOR A ONE STRAP BOX. WHEN A CENTER COVER CLEAT IS REQUIRED, THE THIRD STRAP SHALL BE PLACED BETWEEN THE CLEAT AND THE HASP. STRAP POSITIONS AND MARKING SCHEME SHALL BE PLANNED OUT AHEAD OF TIME SO THAT THE STRAPPING DOES NOT INTERFERE WITH BOX MARKINGS. MARKINGS WILL BE SEPARATED, AS NEEDED, TO PROVIDE A 1.5" VERTICAL AREA VOID OF MARKINGS, WHERE THE STRAP(S) WILL BE PLACED ONCE SECURED.

B- THE LOCATION OF THE CONNECTORS IS OPTIONAL.

C- PULL TIGHT UNTIL STRAPPING CUTS INTO THE EDGE OF THE BOX. FOR FLAT STRAPPING, SEAL STRAPPING WITH CONNECTOR (NOTE 3). FOR ROUND WIRE STRAPPING, TWIST CLOSED.

D- THE SIZE OF FLAT STEEL STRAPPING SHALL BE 5/8 INCH BY .020 INCH FOR ALL BOXES EXCEPT TYPE 1, CLASS C. STRAPPING FOR TYPE 1, CLASS C BOXES SHALL CONSIST OF NOT LESS THAN TWO STRAPS 3/8 INCH BY .015 INCH.

E- ALTERNATIVELY, FOR DOMESTIC USE (LEVEL C), NON-METALLIC STRAPPING (NOTE 5) MAY BE USED ON ALL BOXES. SEALS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. JOINT STRENGTH SHALL BE IAW ASTM D3950 [REF]. SIZE OF STRAPPING SHALL BE 1/2 INCH BY .020 INCH. UNLESS SPECIFIED, ALL AMMUNITION AND EXPLOSIVE ITEMS (CLASS V) WILL BE PACKAGED FOR USE IN SHIPMENTS OCONUS (LEVEL A OR B).

SEALING INSTRUCTIONS (WIREBOUND)

SW 1- METHOD OF SEALING BY CLOSING LOOPS:

A- WIREBOUND BOXES SHALL BE SEALED WITH A SALLEE CLOSER (AVAILABLE FROM ANY WIREBOUND BOX SUPPLIER) AND THE FOLLOWING INSTRUCTIONS:

i. CLOSE BOX SO THAT LOOP ON BOX SIDE PROTRUDES THROUGH CORRESPONDING COVER LOOP.
ii. INSERT THE SALLEE CLOSER THROUGH SIDE LOOP AND CATCH TOP LOOP IN NOTCH ON END OF TOOL.
iii. RAISE HANDLE OF SALLEE CLOSER TO SLIGHTLY BEYOND VERTICAL POSITION AND PUSH TOP LOOP DOWN AGAINST SIDE OF BOX.
iv. COMPLETE CLOSING BY SWINGING HANDLE OF SALLEE CLOSER DOWN AS FAR AS POSSIBLE.

SW 2- METHOD OF SEALING WITH METALLIC SEAL:

A- APPLY METALLIC SEAL UNDER CENTER WIRE AND THROUGH LOOP AS SHOWN IN FIGURE 1

B- SECURE METALLIC SEAL WITH SEALING TOOL IN ACCORDANCE WITH DWG 8794342.

C- METALLIC SEAL SHALL BE APPLIED IN A MANNER THAT THE ONLY MEANS OF OPENING/REMOVING THE SEAL WILL BE TO DESTROY THE SEAL OR TO CUT THE WIRE. ANY IMPROPERLY CRIMPED AND/OR LOOSE SEALS DETECTED AT THE LOAD PLANT SHALL BE DISCARDED AND A NEW SEAL APPLIED CORRECTLY.

REPAIR INSTRUCTIONS (WIREBOUND)

ALL BROKEN LOOPS SHALL BE REPAIRED BEFORE SHIPMENT. REPAIR PROCEDURES SHALL BE AS SPECIFIED IN APPROPRIATE BOX SPECIFICATION.

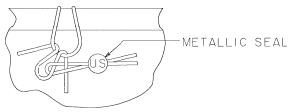
INSTRUCTIONS FOR RE-USE OF WOOD BOXES AND PACKAGING MATERIALS (INTERPLANT ONLY)

IR 1- RE-USE OF PACKAGING MATERIALS (EXCEPT PACKAGING MADE OF PAPER, PLASTIC FILM, OR TEXTILES AND SPECIFICALLY BARRIER BAGS) IS PERMISSIBLE IF CONSIDERED ECONOMICALLY FEASIBLE AND IN USABLE CONDITION BY THE PROCURING ACTIVITY.

IR 2- WOOD BOXES SHALL BE REJECTED FOR RE-USE UPON DETECTION OF ANY OF THE FOLLOWING:

A- CONTAMINATION FROM EXPLOSIVE MATERIAL, OIL OR GREASE ON INTERIOR.

B- NAILS MISSING, LOOSE OR MISSING KNOTS.



VIEW OF SEAL, METALLIC

FIGURE 2

CURRENT DESIGN ACTIVITY FSCM 80.18200
U.S. ARMY
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
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PART NO. 8796522

PMIC	DO NOT SCALE DRAWING	CONTRACT NUMBER	DESIGN ACTIVITY: PICATINNY ARSENAL, DOVER, NEW JERSEY
MECHANICAL PROPERTIES	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON DECIMAL ± FRACTION ±	CONTRACTOR	MARKING DIAGRAM AND SEALING FOR WOOD PACKING BOXES
CVN / TS / ELP / EA / BH	THIRD ANGLE PROJECTION	DRAWN BY D.C. / DATE(YR-MO-DA) 930722 / CHECKED A.S. / DATE(YR-MO-DA) 930827	SIZE F / CAGE CODE 19203 / 8796522
	NEXT ASSY / USED ON	DRAFTING ERROR	DESIGN APPROVAL H.M. WEINER / DESIGN APPROVAL P. KORMAN
	APPLICATION		SCALE – / UNIT WT / SHEET 4

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