

AUTOMATED DATA LIST - CHANGE NOTICE

ADL-CHANGE NOTICE 001 SHEET 1 OF 1

ADL 1379AS972 REV - DATED: 31 MAR 04

NOMENCLATURE: FUZE AND ACCESSORIES, FMU-139C/B - USAF

SCOPE OF WORK

FY-04 PROCUREMENT

APPROVAL SIGNATURE  DATE 7/21/04

DESCRIPTION OF CHANGES:

1. DATA LIST DL8385220, REV D

A. SHEET 3 OF 7, CHANGE;

FROM: " 18894 8385290 D 1 END CAP ASSEMBLY "

To: " 18894 8385290 E 1 END CAP ASSEMBLY "

AUTOMATED DATA LIST (ADL) v3.0e		ADL Number ADL1379AS972	Revision -	DODIC	
Assembly Drawing 1379AS972	Rev. -	Specification Number PMA201-03-003	Rev. -	National Stock Number TBD	Date Issued 31 MAR 04
ADL Sheet Number 0001					
Nomenclature FUZE AND ACCESSORIES, FMU-139C/B - USAF					

APPROVAL SIGNATURE:  DATE: 3/31/2004

FY-04 PROCUREMENT

NOTES: (1) THE TOOLING DOCUMENTATION REFERENCED UNDER THE CATEGORY OF "OTHER" IN THIS ADL IS PROVIDED BY THE DESIGN AGENT FOR USE IN THE MANUFACTURE TEST AND ACCEPTANCE OF THE CONFIGURATION ITEM USE IS NOT MANDATORY UNLESS SPECIFICALLY IDENTIFIED IN TECHNICAL DOCUMENTATION OF THE CONTRACT.

(2) DOCUMENTS CLASSIFIED AS SECRET, IF APPLICABLE, ARE AVAILABLE FROM THE DOCUMENT CUSTODIAN.

(3) DISTRIBUTION AUTHORIZED TO U.S. GOVERNMENT AGENCIES AND PRIVATE INDIVIDUALS OR ENTERPRISES ELIGIBLE TO OBTAIN EXPORT-CONTROLLED TECHNICAL DATA IN ACCORDANCE WITH REGULATIONS IMPLEMENTING 10 U.S.C. 140C OF 01 JAN. 1983. OTHER REQUESTS MUST BE REFERRED TO COMMANDER, NAVAL AIR WARFARE CENTER WEAPONS DIVISION, CODE 332200E, POINT MUGU, CALIFORNIA 93042-5001.

(4) WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751 ET SEQ.) OR EXECUTIVE ORDER 12470. VIOLATION OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES.

(5) DESTRUCTION NOTICE - FOR UNCLASSIFIED, LIMITED DOCUMENTS, DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

AUTOMATED DATA LIST (ADL) v3.0e		ADL Number ADL1379AS972	Revision -	DODIC	
Assembly Drawing 1379AS972	Rev. -	Specification Number PMA201-03-003	Rev -	National Stock Number TBD	Date Issued 31 MAR 04
ADL Sheet Number 0002					

Nomenclature
FUZE AND ACCESSORIES, FMU-139C/B - USAF

All documents are unclassified and Cage Code 30003 unless otherwise specified.

DOCUMENTATION

<u>Document Number</u>	<u>Rev</u>	<u>Nomenclature</u>	<u>Class</u>
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DRAWINGS

19200-12982865	F	MINIMUM MARKING INSTRUCTIONS FOR AMMUNITION AND EXPLOSIVE CONTAINERS	
19200-12999545	-	TWO-DIMENSIONAL BARCODE AMMUNITION LABEL INSTRUCTIONS FOR AMMUNITION AND EXPLOSIVE CONTAINERS	
1379AS198	L	RING, CLOSURE	
1379AS926	A	FMU-139 FUZE ASSEMBLY PACKING AND MARKING (SIX PACK)	
1379AS971	-	FUZE, BOMB, ELECTRONIC - FMU-139C/B	
1379AS972	-	FUZE AND ACCESSORIES, FMU-139C/B - USAF	
10001-564200	Y	PALLET, MATERIAL HANDLING, MK 3 MOD 0	
53711-6214082	C	UNIT LOAD CONSTRUCTION GUIDELINES UNDER REPLENISHMENT OF M548 CONTAINERS	
19200-7258943	L	SHIPPING & STORAGE CONTAINER, M548	
98747-9042203	D	CABLE, POWER	
98747-9042205	A	CUSHION, BOTTOM	
98747-9042206	A	CUSHION, MIDDLE	
98747-9042207	A	CUSHION, TOP	
28620-ACV00561	C	UNIT LOAD MARKING FOR SHIPMENT AND STORAGE, AMMUNITION AND EXPLOSIVES	
NAVORD-2101	-	STATISTICAL METHODS FOR EVALUATION OF FUZE EXPLOSIVE TRAIN SAFETY AND RELIABILITY	
NWC-TP5789	-	AN EXPANDED VARICOMP METHOD FOR DETERMINING DETONATION TRANSFER PROBABILITIES	
PMA201-03-003	-	PERFORMANCE SPECIFICATION FOR THE FUZE, BOMB, ELECTRONIC FMU-139C/B	

AUTOMATED DATA LISTS

98747-DL8385220	D	INITIATOR, BOMB FZU-48/B	
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SPECIFICATIONS

FEDERAL

A-A-208 SURFACES)	B	INK, MARKING, STENCIL, OPAQUE (POROUS AND NON-POROUS)	
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NOTICE 2 B/002 THIS IS AN APPROVED CHANGE TO THE ABOVE DOCUMENT.

A-A-2787	-	ENAMEL (AEROSOL, LOW VOC)	
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Assembly Drawing 1379AS972	Rev. -	Specification Number PMA201-03-003	Rev -	National Stock Number TBD	Date Issued 31 MAR 04	ADL Sheet Number 0003
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Nomenclature
FUZE AND ACCESSORIES, FMU-139C/B - USAF

<u>Document Number</u>	<u>Rev</u>	<u>Nomenclature</u>	<u>Class</u>
A-A-55057	A	PANELS, WOOD/WOOD BASED; CONSTRUCTION AND DECORATIVE	
A-A-883	B	TAPE, PRESSURE SENSITIVE ADHESIVE, MASKING	
FF-S-2738	A	SEALS, ANTIPIILFERAGE	
GG-P-455	B	PLATES AND FOILS, PHOTOGRAPHIC (PHOTOSENSITIVE ANODIZED ALUMINUM)	
AMEND	B/002	THIS IS AN APPROVED CHANGE TO THE ABOVE DOCUMENT.	
NOTICE	B/001	THIS IS AN APPROVED CHANGE TO THE ABOVE DOCUMENT.	
MMM-A-130	B	ADHESIVE, CONTACT	
INT AMEND	B/003	THIS IS AN APPROVED CHANGE TO THE ABOVE DOCUMENT.	
PPP-B-1055	B	BARRIER MATERIAL, WATERPROOFED, FLEXIBLE	
NOTICE 2	B/003	THIS IS AN APPROVED CHANGE TO THE ABOVE DOCUMENT.	
AMEND 2	B/002	THIS IS AN APPROVED CHANGE TO THE ABOVE DOCUMENT.	
NOTICE 1	B/001	THIS IS AN APPROVED CHANGE TO THE ABOVE DOCUMENT.	
PPP-C-1752	D	CUSHIONING MATERIAL, PACKAGING, POLYETHYLENE FOAM (USE A-A-59135 FOR SHEET MATERIAL AND A-A-59136 FOR PLANK MATERIAL)	
NOTICE 1	D/004	THIS IS AN APPROVED CHANGE TO THE ABOVE DOCUMENT.	
<u>MILITARY</u>			
AMS-H-6875	-	HEAT TREATMENT OF STEEL, PROCESS FOR	
MIL-A-24179	A	ADHESIVE, FLEXIBLE UNICELLULAR - PLASTIC THERMAL INSULATION	
NOTICE 1	A/002	THIS IS AN APPROVED CHANGE TO THE ABOVE DOCUMENT.	
AMEND 2	A/001	THIS IS AN APPROVED CHANGE TO THE ABOVE DOCUMENT.	
MIL-D-3464	E	DESICCANTS, ACTIVATED, BAGGED, PACKAGING USE AND STATIC DEHUMIDIFICATION	
MIL-DTL-15024	F	PLATES, TAGS, AND BANDS FOR IDENTIFICATION OF EQUIPMENT, GENERAL SPECIFICATION FOR	
MIL-DTL-17111	C	DETAIL SPECIFICATION - FLUID, POWER TRANSMISSION	
MIL-I-8835	A	INDICATOR, HUMIDITY, CARD, CHEMICALLY IMPREGNATED	
MIL-P-19834	B	PLATES, IDENTIFICATION OR INSTRUCTION, METAL FOIL, ADHESIVE BACKED	
AMEND 2	B/002	THIS IS AN APPROVED CHANGE TO THE ABOVE DOCUMENT.	
MIL-PRF-121	G	BARRIER MATERIAL, GREASEPROOFED, WATERPROOFED, FLEXIBLE, HEAT-SEALABLE	
MIL-PRF-27617	F	PERFORMANCE SPECIFICATION GREASE, AIRCRAFT AND INSTRUMENT, FUEL AND OXDIZER RESISTANT	
MIL-PRF-61002	A	PRESSURE-SENSITIVE ADHESIVE LABELS FOR BAR CODING	

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ADL Sheet Number 0004					

Nomenclature
FUZE AND ACCESSORIES, FMU-139C/B - USAF

<u>Document Number</u>	<u>Rev</u>	<u>Nomenclature</u>	<u>Class</u>
MIL-G-81322	F	GREASE, AIRCRAFT, GENERAL PURPOSE, WIDE TEMPERATURE RANGE, NATO CODE NUMBER G-395	
MIL-S-18729	C	STEEL PLATE, SHEET AND STRIP	
MIL-S-901	D	SHOCK TESTS, H.I. (HIGH- IMPACT); SHIPBOARD MACHINERY, EQUIPMENT AND SYSTEMS, REQUIREMENTS FOR	
<u>STANDARDS</u>			
<u>FEDERAL</u>			
FED-STD-595	B	COLORS USED IN GOVERNMENT PROCUREMENT	
CHG NOTICE 1	B/001	THIS IS AN APPROVED CHANGE TO THE ABOVE DOCUMENT.	
<u>MILITARY</u>			
DOD-STD-2101	-	CLASSIFICATION OF CHARACTERISTICS	
MIL-STD-100	G	ENGINEERING DRAWING PRACTICES	
MIL-STD-1168	B	AMMUNITION LOT NUMBERING AND AMMUNITION DATA CARD	
MIL-STD-130	L	IDENTIFICATION MARKING OF U.S. MILITARY PROPERTY	
MIL-STD-1316	D	FUZE DESIGN, SAFETY CRITERIA FOR	
NOTICE	D/001	THIS IS AN APPROVED CHANGE TO THE ABOVE DOCUMENT.	
MIL-STD-1472	F	HUMAN ENGINEERING DESIGN CRITERIA FOR MILITARY SYSTEMS, EQUIPMENT AND FACILITIES	
MIL-STD-1751	A	SAFETY AND PERFORMANCE TESTS FOR THE QUALIFICATION OF EXPLOSIVES (HIGH EXPLOSIVES, PROPELLANTS, AND PRYROTHECNICS)	
MIL-STD-2105	C	HAZARD ASSESSMENT TESTS FOR NON-NUCLEAR MUNITIONS	
MIL-STD-331	B	FUZE AND FUZE COMPONENTS, ENVIRONMENTAL AND PERFORMANCE TESTS FOR	
NOTICE 8	B/008	THIS IS AN APPROVED CHANGE TO THE ABOVE DOCUMENT.	
MIL-STD-461	E	ELECTROMAGNETIC EMISSION AND SUSCEPTIBILITY REQUIREMENTS FOR THE CONTROL OF ELECTRO- MAGNETIC INTERFERENCE	
MIL-STD-464	-	ELECTROMAGNETIC ENVIRONMENTAL EFFECTS REQUIREMENTS FOR SYSTEMS	
MIL-STD-810	F	ENVIRONMENTAL TEST METHODS AND ENGINEERING GUIDELINES	
NOTICE 1	F/001	THIS IS AN APPROVED CHANGE TO THE ABOVE DOCUMENT.	
MIL-STD-882	D	SYSTEM SAFETY PROGRAM REQUIREMENTS	
MS20003	C	INDICATOR, HUMIDITY, CARD, THREE SPOT, IMPREGNATED AREAS (COBALTOUS CHLORIDE)	

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ADL Sheet Number 0005					

Nomenclature
FUZE AND ACCESSORIES, FMU-139C/B - USAF

<u>Document Number</u>	<u>Rev</u>	<u>Nomenclature</u>	<u>Class</u>
<u>INDUSTRY</u>			
A-A-56032	D	INK, MARKING, EPOXY BASE (COMMERCIAL ITEM DESCRIPTION)	
AMS-QQ-P-416	A	PLATING, CADMIUM (ELECTRODEPOSITED)	
ANSI-Y14.5M	94	DIMENSIONING AND TOLERANCING	
ANSI/AIM-BC1	-	UNIFORM SYMBOLOGY SPECIFICATION CODE 39	
ADOPT NOTICE	-/001	THIS IS AN APPROVED CHANGE TO THE ABOVE DOCUMENT.	
ANSI/ASQC-Z1.4	95	SAMPLING PROCEDURES AND TABLES FOR INSPECTION BY ATTRIBUTES	
ASTM-A108 FINISHED, STANDARD QUALITY	99	STANDARD SPECIFICATION FOR STEEL BARS, CARBON, COLD-	
ASTM-A313	98	STANDARD SPECIFICATION FOR CHROMIUM-NICKEL STAINLESS AND HEAT-RESISTING STEEL SPRING WIRE	
ASTM-A519	96	STANDARD SPECIFICATION FOR SEAMLESS CARBON AND ALLOY STEEL MECHANICAL TUBING	
ASTM-A827	01	STANDARD SPECIFICATION FOR PLATES, CARBON STEEL FOR FORGING AND SIMILAR APPLICATIONS	
ASTM-B633	98	STANDARD SPECIFICATION FOR ELECTRODEPOSITED COATINGS OF ZINC ON IRON AND STEEL	
ASTM-D3953	97	STRAPPING, FLAT STEEL AND SEALS	
ASTM-D543	95	RESISTANCE OF PLASTICS TO CHEMICAL REAGENTS, TEST METHOD FOR DOD ADOPTED NRC REFERENCED	
ASTM-D5486	99	STANDARD SPECIFICATION FOR PRESSURE-SENSITIVE TAPE FOR PACKAGING, BOX CLOSURE, AND SEALING	
ASTM-D770	99	ALCOHOL, ISOPROPYL, SPECIFICATION FOR	
<u>PUBLICATION/OTHER</u>			
CFR49	72	CODE OF FEDERAL REGULATIONS, PARTS 1 TO 199-TRANSPORTATION	
MIL-HDBK-217	F	RELIABILITY PREDICTION OF ELECTRONIC EQUIPMENT	
NOTICE	F/002	THIS IS AN APPROVED CHANGE TO THE ABOVE DOCUMENT.	
NOTICE	F/001	THIS IS AN APPROVED CHANGE TO THE ABOVE DOCUMENT.	
MIL-HDBK-61	A	CONFIGURATION MANAGEMENT GUIDANCE	

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ADL Sheet Number 0006					

Nomenclature

FUZE AND ACCESSORIES, FMU-139C/B - USAF

EXCEPTIONS FOR THE FMU-139C/B, FUZE AND ACCESSORIES (USAF)

1. DRAWING 1379AS198, REV L
 - A. NOTE 2, LINE 1, CHANGE;

FROM: "...ACCORDANCE WITH QQ-P-416,..."

TO: "...ACCORDANCE WITH AMS-QQ-P-416,..."

2. DRAWING 1379AS972, REV -
 - A. IN PARTS LIST, ITEM 5, CHANGE;

FROM: " MIL-G-81322 "

TO: " MIL-PRF-81322 "

3. DRAWING 1379AS971, REV -
 - A. NOTE 17, LINE 1, CHANGE;

FROM: "...WITH MIL-H-6875, CLASS A..."

TO: "...WITH AMS-H-6875, CLASS A..."
 - B. SHEET 2, ZONE A-5/6, CHANGE;

FROM: " 6.406 ± .088 "

TO: " 6.386 ± .060 "

4. SPECIFICATION PMA201-03-003, REV -
 - A. WHEREVER APPLICABLE, CHANGE;

FROM: " MIL-F-17111 "

TO: " MIL-DTL-17111 "

AUTOMATED DATA LIST (ADL) v3.0e		ADL Number ADL1379AS972	Revision -	DODIC	
Assembly Drawing 1379AS972	Rev. -	Specification Number PMA201-03-003	Rev -	National Stock Number TBD	Date Issued 31 MAR 04
ADL Sheet Number 0007					

Nomenclature

FUZE AND ACCESSORIES, FMU-139C/B - USAF

DOCUMENTS CONTAINING OZONE DEPLETING CHEMICALS/OZONE DEPLETING SUBSTANCES (ODC)/(ODS) FOR THE FUZE AND ACCESSORIES, FMU-139C/B - USAF

SOME OF THE FOLLOWING DOCUMENTS MAY NOT APPEAR IN THE ADL DUE TO THE FACT THAT THEY ARE LOWER LEVEL DOCUMENTS, THEY ARE STILL APPLICABLE AND HAVE BEEN REVIEWED FOR THE USES OF ODC'S/ODS'S AND A REPLACEMENT HAS BEEN SUGGESTED. THE SUITABILITY OF THE SELECTED REPLACEMENT MUST BE VERIFIED BY THE CONTRACTOR IN TERMS OF PRODUCT PERFORMANCE REQUIREMENTS AND COMPATIBILITY WITH MANUFACTURING PROCESSES. UNDER NO CIRCUMSTANCES SHALL THE SUGGESTED REPLACEMENT BE USED IF THEY VIOLATE LOCAL, STATE, OR FEDERAL LAWS AND REGULATIONS.

<u>LEVEL 1</u>	<u>LEVEL 2</u>	<u>APPLICATION</u>	<u>SUGGESTED REPLACEMENT</u>
A-A-208B NTC 2	FED-STD-191	1,1,1 Trichloroethane	Replace with Trichloroethylene
GG-P-455 REV B AMD1 NTC1		Carbon Tetrachloride.	The replacement is to delete the requirements.
MIL-D-3464	TT-E-485	Carbon Tetrachloride.	Replace with Chloroform.
MIL-I-8835	MIL-P-116	1,1,1-Trichloroethane	Replace with Trichloroethylene
MIL-P-19834B AMD 2	FED-STD-191A NTC 6	Trichloroethane is an ODS.	Replace with Trichloroethylene in Method 1600.
MIL-PRF-20696	FED-STD-191	1,1,1 Trichloroethane	Replace with Trichloroethylene
MIL-STD-171E NTC1	MIL-C-450C NTC 1	Carbon Tetrachloride is an ODS.	Carbon Tetrachloride's use in this spec is for analytical purposes in a laboratory is exempt from the requirements for elimination and therefore no replacements recommended. NOTE: Replace Carbon Tetrachloride with Chloroform.
MIL-STD-331B NTC 8		Refrigerant R-12 is an ODS.	No replacement recommended - use a non ODS Halogen gas
MMM-A-130B	TT-E-485	Carbon Tetrachloride.	Replace with Chloroform.
MMM-A-130B	ASTM D297	Carbon Tetrachloride.	Replace with Chloroform.
MIL-A-24179A	MIL-STD-141D	Carbon Tetrachloride.	Replace with Chloroform.
MIL-A-24179A	FED-STD-601(7)	Carbon Tetrachloride.	Replace with Chloroform.
MIL-A-24179A	TT-D645B	Carbon Tetrachloride.	Replace with Chloroform.
A-A-1936	ASTM D297	Carbon Tetrachloride.	Replace with Chloroform.

ATTACHMENT (12)

AUTOMATED DATA LIST (ADL) v3.0e		ADL Number ADL1379AS318		Revision -	DODIC EB40	
Assembly Drawing 1379AS318	Rev. -	Specification Number NAWCWD-201-1	Rev. -	National Stock Number 1325-01-482-7599	Date Issued 26 NOV 02	ADL Sheet Number 0001

Nomenclature
FUZE AND ACCESSORIES - FMU-139B/B (USAF)

APPROVAL SIGNATURE: 

DATE: 27-NOV-02

FY-03 PROCUREMENT

- NOTES: (1) THE TOOLING DOCUMENTATION REFERENCED UNDER THE CATEGORY OF "OTHER" IN THIS ADL IS PROVIDED BY THE DESIGN AGENT FOR USE IN THE MANUFACTURE TEST AND ACCEPTANCE OF THE CONFIGURATION ITEM USE IS NOT MANDATORY UNLESS SPECIFICALLY IDENTIFIED IN TECHNICAL DOCUMENTATION OF THE CONTRACT.
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Nomenclature FUZE AND ACCESSORIES - FMU-139B/B (USAF)							
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Document Number	Rev	Nomenclature				Class	
<u>DRAWINGS</u>							
1379AS198	L	RING, CLOSURE					
1379AS318	-	FUZE AND ACCESSORIES, FMU-139B/B - USAF					
1379AS924	-	FUZE, BOMB, ELECTRONIC - FMU-139B/B (DESIGN CONTROL DRAWING)					
1379AS926	-	FMU-139 FUZE ASSEMBLY PACKING AND MARKING (SIX PACK)					
10001-564200 (GFM)	Y	PALLET, MATERIAL HANDLING, MK 3 MOD 0					
53711-6214082	A	UNIT LOAD CONSTRUCTION GUIDELINES UNDER REPLENISHMENT OF M548 CONTAINERS					
53711-6214251	-	UNIT LOAD MARKING FOR SHIPMENT AND STORAGE, AMMUNITION AND EXPLOSIVES					
19200-7258943 (GFM)	H	SHIPPING & STORAGE CONTAINER, CARTRIDGE, 20MM, M548					
98747-9042203	D	CABLE, POWER					
98747-9042205	A	CUSHION, BOTTOM					
98747-9042206	A	CUSHION, MIDDLE					
98747-9042207	A	CUSHION, TOP					
923AS731	A	LOGO, NAVAIR					
923AS733	-	PLATE - NAVAIR LOGO					
NAVORD-2101	-	STATISTICAL METHODS FOR EVALUATION OF FUZE EXPLOSIVE TRAIN SAFETY AND RELIABILITY					
13672-NAWCWD-201-1	-	ITEM SPECIFICATION FOR THE FUZE, BOMB, ELECTRONIC FMU-139B/B					
NWC-TP5789	-	AN EXPANDED VARICOMP METHOD FOR DETERMINING DETONATION TRANSFER PROBABILITIES					
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18894-DL8385220	B	INITIATOR, BOMB FUZE FZU-48/B					
<u>SPECIFICATIONS</u>							
<u>FEDERAL</u>							
A-A-2787	-	ENAMEL (AEROSOL, LOW VOC)					
A-A-56032	B	INK, MARKING, EPOXY BASE					
A-A-59485	-	PLASTIC MATERIAL, PRESSURE SENSITIVE ADHESIVE, FOR AEROSPACE IDENTIFICATION AND MARKING					
A-A-883	B	TAPE, PRESSURE SENSITIVE ADHESIVE, MASKING					

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MIL-A-2550	B	AMMUNITION, GENERAL SPECIFICATION FOR			
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MIL-D-3464	E	DESICCANTS, ACTIVATED, BAGGED, PACKAGING USE AND STATIC DEHUMIDIFICATION			
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MIL-S-901	D	SHOCK TESTS, H. I. (HIGH- IMPACT); SHIPBOARD MACHINERY, EQUIPMENT AND SYSTEMS, REQUIREMENTS FOR			

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Nomenclature FUZE AND ACCESSORIES - FMU-139B/B (USAF)						
Document Number	Rev	Nomenclature	Class			
<u>STANDARDS</u>						
<u>FEDERAL</u>						
FED-STD-595	B	COLORS USED IN GOVERNMENT PROCUREMENT				
CHG NOTICE 1	B/001	THIS IS AN APPROVED CHANGE TO THE ABOVE DOCUMENT.				
<u>MILITARY</u>						
DOD-STD-2101	-	CLASSIFICATION OF CHARACTERISTICS				
MIL-STD-100	G	ENGINEERING DRAWING PRACTICES				
MIL-STD-1168	B	AMMUNITION LOT NUMBERING AND AMMUNITION DATA CARD				
MIL-STD-130	K	IDENTIFICATION MARKING OF U.S. MILITARY PROPERTY				
MIL-STD-1316	D	FUZE DESIGN, SAFETY CRITERIA FOR				
NOTICE	D/001	THIS IS AN APPROVED CHANGE TO THE ABOVE DOCUMENT.				
MIL-STD-1323	-	UNIT LOADS OF AMMUNITION AND EXPLOSIVES FOR UNDERWAY REPLENISHMENT				
NOTICE 2	-/002	THIS IS AN APPROVED CHANGE TO THE ABOVE DOCUMENT.				
NOTICE 1	-/001	THIS IS AN APPROVED CHANGE TO THE ABOVE DOCUMENT.				
MIL-STD-1472	F	HUMAN ENGINEERING DESIGN CRITERIA FOR MILITARY SYSTEMS, EQUIPMENT AND FACILITIES				
MIL-STD-1751	A	SAFETY AND PERFORMANCE TESTS FOR THE QUALIFICATION OF EXPLOSIVES (HIGH EXPLOSIVES, PROPELLANTS, AND PYROTECHNICS)				
MIL-STD-2105	B	HAZARD ASSESSMENT TESTS FOR NON-NUCLEAR MUNITIONS				
MIL-STD-331	B	FUZE AND FUZE COMPONENTS, ENVIRONMENTAL AND PERFORMANCE TESTS FOR				
NOTICE 8	B/008	THIS IS AN APPROVED CHANGE TO THE ABOVE DOCUMENT.				
MIL-STD-461	E	ELECTROMAGNETIC EMISSION AND SUSCEPTIBILITY REQUIREMENTS FOR THE CONTROL OF ELECTRO-MAGNETIC INTERFERENCE				
MIL-STD-464	-	ELECTROMAGNETIC ENVIRONMENTAL EFFECTS REQUIREMENTS FOR SYSTEMS				
MIL-STD-810	F	ENVIRONMENTAL TEST METHODS AND ENGINEERING GUIDELINES				
NOTICE 1	F/001	THIS IS AN APPROVED CHANGE TO THE ABOVE DOCUMENT.				
MIL-STD-882	D	SYSTEM SAFETY PROGRAM REQUIREMENTS				
MS20003	C	INDICATOR, HUMIDITY, CARD, THREE SPOT, IMPREGNATED AREAS (COBALTOUS CHLORIDE)				
NASM35678	-	PIN, GROOVED, HEADLESS - LONGITUDINAL CENTER GROOVE, CORROSION - RESISTING				

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Document Number	Rev	Nomenclature	Class
<u>INDUSTRY</u>			
AMS-QQ-P-416	A	PLATING, CADMIUM (ELECTRODEPOSITED)	
AMS2759	C	HEAT TREATMENT OF STEEL PARTS, GENERAL REQUIREMENTS	
AMS6350	H	STEEL SHEET, STRIP, AND PLATE 0.95CR - 0.20MO (0.28 - 0.33C) (SAE 4130)	
ANSI-Y14.5M	94	DIMENSIONING AND TOLERANCING; ERRATA - FEBRUARY 1985	
ANSI/AIM-BC1	-	UNIFORM SYMBOLOGY SPECIFICATION CODE 39	
ADOPT NOTICE	-/001	THIS IS AN APPROVED CHANGE TO THE ABOVE DOCUMENT.	
ANSI/ASQC-Z1.4	95	SAMPLING PROCEDURES AND TABLES FOR INSPECTION BY ATTRIBUTES	
ASTM-A108	99	STANDARD SPECIFICATION FOR STEEL BARS, CARBON, COLD-FINISHED, STANDARD QUALITY	
ASTM-A313	98	STANDARD SPECIFICATION FOR CHROMIUM-NICKEL STAINLESS AND HEAT-RESISTING STEEL SPRING WIRE	
ASTM-A519	96	STANDARD SPECIFICATION FOR SEAMLESS CARBON AND ALLOY STEEL MECHANICAL TUBING	
ASTM-A827	01	STANDARD SPECIFICATION FOR PLATES, CARBON STEEL FOR FORGING AND SIMILAR APPLICATIONS	
ASTM-B633	98	STANDARD SPECIFICATION FOR ELECTRODEPOSITED COATINGS OF ZINC ON IRON AND STEEL	
ASTM-D543	95	RESISTANCE OF PLASTICS TO CHEMICAL REAGENTS, TEST METHOD FOR DOD ADOPTED NRC REFERENCED	
NAS1756	2	STREAMER, WARNING	
<u>PUBLICATION/OTHER</u>			
CFR49	72	CODE OF FEDERAL REGULATIONS, PARTS 1 TO 199-TRANSPORTATION	
MIL-HDBK-217	F	RELIABILITY PREDICTION OF ELECTRONIC EQUIPMENT	
NOTICE	F/002	THIS IS AN APPROVED CHANGE TO THE ABOVE DOCUMENT.	
NOTICE	F/001	THIS IS AN APPROVED CHANGE TO THE ABOVE DOCUMENT.	
MIL-HDBK-61	A	CONFIGURATION MANAGEMENT GUIDANCE	

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EXCEPTIONS FOR THE FMU-139B/B, FUZE AND ACCESSORIES (USAF)

1. DRAWING 1379AS198, REV L
 - A. NOTE 2, LINE 1, CHANGE;

FROM: "...ACCORDANCE WITH QQ-P-416,..."

TO: "...ACCORDANCE WITH AMS-QQ-P-416,..."

2. DRAWING 1379AS318, REV -
 - A. DELETE ALTERNATE ITEM 1, IN ITS ENTIRETY.
 - B. ALT ITEM 1, CHANGE;
 - C. ITEM 6, SPECIFICATION BLOCK, CHANGE;

FROM: " MIL-G-81322 "

TO: " MIL-PRP-81322 "

3. DRAWING 1379AS924, REV -
 - A. NOTE 5, LINE 2, CHANGE;

FROM: "...WITH CIDA-A-56032."

TO: "...WITH CID A-A-56032."
 - B. NOTE 15, LINE 1, CHANGE;

FROM: "...WITH MIL-P-38477,..."

TO: "...WITH A-A-59485,..."
 - C. NOTE 18, LINE 1, CHANGE;

FROM: "...WITH MIL-H-6875, CLASS..."

TO: "...WITH AMS2759, CLASS..."
 - D. NOTE 19, LINE 2, CHANGE;

FROM: "...MIL-S-18729, PHYSICAL..."

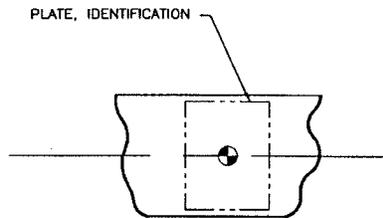
TO: "...AMS6350, PHYSICAL..."

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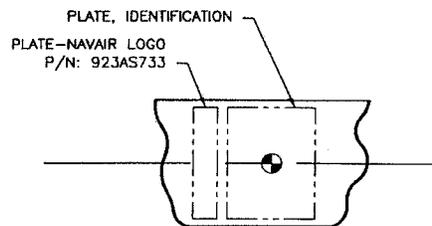
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FUZE AND ACCESSORIES - FMU-139B/B (USAF)

E. SHEET 2, ZONE B/C-6/7, CHANGE;

FROM:



TO:



F. SHEET 2, ZONE D-5, CHANGE;

FROM: " .55 +.015
-.005 "

TO: " .055 +.015
-.005 "

4. SPECIFICATION NAWCWD-201-1, REV -

A. SHEET 3, CHANGE;

FROM: " MIL-F-17111 "

TO: " MIL-DTL-17111 "

B. SHEET 32, PARAGRAPH 4.4.19.3f, CHANGE;

FROM: "...WITHIN 150 us OF THE IMPACT."

TO: "...WITHIN 150 ms OF THE IMPACT."

C. SHEET 6, PARAGRAPH 3.1.1g, CHANGE;

FROM: " g. ARMING...TO ARM TIME."

TO: " g. ARMING...TO ARM COMMAND (SEE 6.5)."

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Nomenclature FUZE AND ACCESSORIES - FMU-139B/B (USAF)							
<p>D. SHEET 6, PARAGRAPH 3.1.1h, CHANGE;</p> <p>FROM: " h. THE EXPLOSIVE...TO ARM TIME."</p> <p>TO: " h. THE EXPLOSIVE...TO ARM COMMAND (SEE 6.5)."</p> <p>E. SHEET 6, PARAGRAPH 3.1.1i, CHANGE;</p> <p>FROM: " i. THE FUZE...STORED ENERGY WITHIN 30 MS. IF...ALL STORED ENERGY WITHIN 30 ms OF POWER REMOVAL."</p> <p>TO: " i. THE FUZE...STORED ENERGY TO A LEVEL THAT WILL NOT INITIATE THE ELECTRO EXPLOSIVE COMPONENTS (A VOLTAGE NOT GREATER THEN 2.5 VOLTS) WITHIN 50ms. IF...ALL STORED ENERGY A LEVEL THAT WILL NOT INITIATE THE ELECTRO EXPLOSIVE COMPONENTS (A VOLTAGE NOT GREATER THAN 2.5 VOLTS) WITHIN 50 ms OF POWER REMOVAL."</p> <p>F. SHEET 8, PARAGRAPH, 3.2.6.1, CHANGE;</p> <p>FROM: " LOW...POWER. THE ARMING TIME...TABLE I."</p> <p>TO: " LOW...POWER. THE ARM TIME...TABLE I."</p> <p>G. SHEET 20, PARAGRAPH, 4.2.3.2, CHANGE;</p> <p>FROM: " FIRING...OF POWER. THE REST...DRAWING 1379AAS924. THE LOT FIRING TEST."</p> <p>TO: " FIRING...OF POWER. FOR THE TEST, PULSED POWER SHALL BE APPLIED FOR MS MAXIMUM. THE TEST...DRAWING 1379AS924. THE LOT...FIRING TEST."</p> <p>H. SHEET 27, PARAGRAPH 4.4.9.5, CHANGE;</p> <p>FROM: " RANDOM...PROCEDURE I. THE FUZE...OF 3.3.5."</p> <p>TO: " RANDOM...PROCEDURE I. OPERABILITY OF THE FUZE SHALL BE DETERMINED BY EDT OR FUNCTIONAL VERIFICATION. THE FUZE...OF 3.3.5."</p> <p>I. SHEET 35, RENUMBER PARAGRAPH 6.5.1 TO 6.5.2 AND CHANGE;</p> <p>FROM: " 6.5.1 ARM...IS VISIBLE."</p> <p>TO: " 6.5.2 ARM...IS VISIBLE."</p> <p>J. SHEET 35, ADD PARAGRAPH 6.5.1:</p> <p>" 6.5.1 ARM COMMAND. THE ARM COMMAND IS THE COMMAND SIGNAL FROM THE FUZE CONTROL ELECTRONICS THAT CONNECTS THE FUZE FIRING ENERGY SOURCE TO THE BELOWS MOTOR."</p>							

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K. SHEETS 35 AND 36, RENUMBER THE FOLLOWING PARAGRAPHS:

FROM: 6.5.2	TO: 6.5.5
6.5.3	6.5.6
6.5.4	6.5.7
6.5.5	6.5.8
6.5.6	6.5.10
6.5.7	6.5.11
6.5.8	6.5.12
6.5.9	6.5.13
6.5.10	6.5.14
6.5.11	6.5.15
6.5.12 "	6.5.16 "

L. ADD THE FOLLOWING NEW PARAGRAPHS:

- " 6.5.3 ARM POSITION. THE FUZE IS IN THE ARMED POSITION WHEN THE EXPLOSIVE TRAIN IS IN-LINE. THIS IS ELECTRICALLY SENSED BY CONTROL ELECTRONICS AND IS DETERMINED EXTERNALLY WITH THE MONITOR CIRCUIT SHOWN ON DRAWING 1379AS924."
- " 6.5.4 ARM TIME. ARM TIME IS COMPLETED WHEN THE EXPLOSIVE TRAIN REACHES THE ARMED POSITION."
- " 6.5.9 IN-RUSH CURRENT. THE FUZE IN-RUSH CURRENT SHALL BE GREATER THEN 5MA FOR NO MORE THEN 15MS (SEE 6.5.4)."

M. SHEET 36, PARAGRAPH 6.5.13, CHANGE;

FROM: "TIME...AT THE 50 PERCENT...REMOVED."
TO: "TIME...AT THE LOADING EDGE 50 PERCENT...REMOVED."

N. SHEET 36, PARAGRAPHS 6.5.14a AND 6.5.15a, CHANGE;

FROM: " a. WAVEFORM: HALF-WAVE RECTIFIED, SINUSOIDAL."
TO: " a. WAVERFOM: POSITIVE HALF-WAVE RECTIFIED, SINUWAVE."

5. DATA LIST, DL8385220, REV B

A. IN SHEET 4 OF 7, CHANGE;

FROM: " DL8385220 REV A "
TO: " DL8385220 REV B "

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6. EXCEPTIONS FOR THE PACKAGING DRAWING 1379AS926, REV -

1. ZONE B-8, NOTE 10, CHANGE:

FROM:  PLACE M548 CONTAINER COVER PART OF (ITEM 1) ONTO M548 CONTAINER BODY, PART OF (ITEM 1), SECURE LATCHES AND FASTEN ANTIPIRFERAGE SEAL, (ITEM 10), TO LATCHES AT BOTH ENDS OF CONTAINER AS SHOWN.

TO:  PLACE COVER PART OF (ITEM 1) ON CONTAINER BODY, SECURE LATCHES AND FASTEN ANTIPIRFERAGE SEAL, (ITEM 10), TO LATCHES AT BOTH ENDS OF CONTAINER AS SHOWN. ANTIPIRFERAGE SEAL SHALL BE MARKED "US" FOR PRIVATE CONTRACTORS AND WITH AGENCY IDENTIFICATION FOR GOVERNMENT ACTIVITIES. LEAD SHALL NOT BE USED IN ANTIPIRFERAGE SEAL.

2. ZONE B-8, NOTE 12A, CHANGE:

FROM:  A. CONTAINER SHALL BE MARKED AND LABELED IN ACCORDANCE WITH CODE OF FEDERAL REGULATIONS TITLE 49, PART 172, FOR SPECIFIC UN NUMBER AND HAZARD CLASSIFICATION. MARKING SHALL BE .25 INCH HIGH MINIMUM CHARACTERS USING ENAMEL (ITEM 11) IN APPROXIMATE LOCATION SHOWN. SEE HAZARD CLASSIFICATION OR SW020-AC-SAF-010 FOR HAZARD CLASSIFICATION.

TO:  A. CONTAINER SHALL BE MARKED AND LABELED AS SHOWN. MARKING SHALL BE .25 INCH HIGH MINIMUM CHARACTERS USING ENAMEL (ITEM 11) IN APPROXIMATE LOCATION SHOWN.

ALTERNATE MARKING METHOD:
LABEL PER MIL-P-19834, TYPE 1 AND GG-P-455, TYPE I, CLASS 1.

3. ZONE B-8, NOTE 12B, CHANGE:

FROM: B. MARK CONTAINER WITH NALC AND LOT NUMBER OF CONTENTS. HAND WRITTEN DATA PERMISSIBLE FOR LOT NUMBER ONLY.

TO: B. LOT NUMBER MAY BE HAND WRITTEN WHEN REPACKAGING FUZE ASSEMBLIES.

4. ZONE A-8, NOTE 12C,

DELETE: C. APPLY THE FOLLOWING BAR CODES IN ACCORDANCE WITH MIL-STD-129-1 NATIONAL ITEM IDENTIFICATION NUMBER (NIIN) LOT NUMBER AND QUANTITY

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5. ZONE A-8, NOTE 12D, CHANGE:

FROM: D. MARK CONTAINER WITH CONTRACTOR NAME OR CAGE AND CONTRACT NO.
TO: D. SEE CONTRACT, HAZARD CLASSIFICATION OR SW020-AC-SAF-010 FOR INFORMATION.

6. ZONE A-8, NOTE 12E, CHANGE:

FROM: E. STENCIL IN .25 INCH HIGH CHARACTERS, USING ENAMEL (ITEM 11), IN APPROXIMATE LOCATION SHOWN.
TO: E. NAVAIR LOGO SHALL BE IN ACCORDANCE WITH DRAWING 30003-923AS731, USING .38 INCH HIGH CHARACTERS.

7. ZONE C-6, NOTE 13B, CHANGE:

FROM: B. APPLY EXPLOSIVE LABEL CONFORMING TO 49CFR 172.407 AND 172.411, ON SIDE OPPOSITE NATIONAL STOCK NUMBER. SEE HAZARD CLASSIFICATION OR SW020-AC-SAF-010 FOR HAZARD CLASSIFICATION.
TO: B. APPLY EXPLOSIVE LABEL CONFORMING TO 49CFR, ON SIDE OPPOSITE OF NATIONAL STOCK NUMBER. SEE HAZARD CLASSIFICATION OR SW020-AC-SAF-010 TO DETERMINE WHICH LABEL IS REQUIRED.

8. ZONE C-6, NOTE 16, SPECIFICATION, CHANGE:

FROM: MIL-STD-1323-333
TO: 53711-6214082

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9. ZONE C-6, NOTE 17,

ADD:  A. APPLY NIIN AND LOT/SERIAL NUMBER BAR CODE LABELS AS FOLLOWS:

1. NIIN BAR CODE LABEL: THE NINE-DIGIT NATIONAL ITEM IDENTIFICATION NUMBER (NIIN), OWNERSHIP CODE AND AMMUNITION CONDITION SHALL BE ENCODED AS A SINGLE "MESSAGE". THE NIIN SHALL BE ENCODED WITHOUT THE DASHES. A SPACE (ENCODED) SHALL BE PLACED BETWEEN THE NIIN AND THE OWNERSHIP CODE AND BETWEEN THE OWNERSHIP CODE AND THE AMMUNITION CONDITION CODE.
 - a. OWNERSHIP CODE: THE OWNERSHIP CODE SHALL BE AS FOLLOWS:
 1. FOR ARMY-OWNED AMMUNITION – "1".
 2. FOR MARINE CORPS-OWNED AMMUNITION – "4".
 3. FOR NAVY-OWNED AMMUNITION – "5".
 4. FOR AIR FORCE-OWNED AMMUNITION – "6".
 5. FOR COAST GUARD-OWNED AMMUNITION – "7".
 - b. AMMUNITION CONDITION CODE: THE AMMUNITION CONDITION CODE (C/C) SHALL BE "A" FOR NEW PRODUCTION ASSETS.
2. LOT/SERIAL NUMBER BAR CODE LABEL: THE LOT NUMBER, SERIAL NUMBER, SHELF-LIFE EXPIRATION DATE AND QUANTITY SHALL BE ENCODED ON THE SAME "MESSAGE". A SLASH (ENCODED) SHALL BE PLACED BETWEEN THE LOT NUMBER AND THE SERIAL NUMBER. THE SHELF-LIFE EXPIRATION DATE IS A 4 DIGIT DATA ELEMENT REPRESENTING THE MONTH (01 THROUGH 12) AND LAST TWO DIGITS OF THE YEAR. THE SHELF-LIFE SHALL BE ENCODED BETWEEN THE SERIAL NUMBER AND THE QUANTITY. A SPACE (ENCODED) SHALL BE PLACED BETWEEN THE SERIAL NUMBER AND THE SHELF-LIFE DATE AND BETWEEN THE SHELF-LIFE DATE AND THE QUANTITY.

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10. ZONE D-4, NOTE 18,

ADD:  BAR CODE MARKINGS:

A. BAR CODE MARKINGS SHALL BE APPLIED BY MEANS OF A LABEL.

1. LABELS SHALL MEET THE REQUIREMENTS FOR GRADE A, STYLE 2, COMPOSITION B LABEL AS SPECIFIED IN MIL-PRF-61002. THE PERFORMANCE REQUIREMENTS FOR SOLVENT AND DETERGENT RESISTANCE ARE NOT REQUIRED.
2. LABELS SHALL BE THREE-QUARTERS (3/4) OF AN INCH IN HEIGHT.

B. THE BAR CODE SYMBOLOGY AND HUMAN READABLE INFORMATION (HRI) THAT ARE TO BE APPLIED SHOULD BE THE STANDARD DOD SYMBOLOGY AS DESCRIBED IN ANSI/AIM BC1 (UNIFORM SYMBOLOGY SPECIFICATION CODE 39). THE ANSI/AIM BC1 IS A DOCUMENT PUBLISHED BY AIM USA AND MAY BE OBTAINED DIRECTLY FROM AIM USA BY WRITING TO 634 ALPHA DRIVE, PITTSBURGH PA 15328-2802 OR CALL (412) 963-8588. THE HRI SHALL BE AN EXACT INTERPRETATION OF THE DATA ENCODED IN THE BAR CODE AND SHOULD NOT CONTAIN ANY SPACES OR DASHES. THE PREFERRED LOCATION FOR THE HRI IS BELOW THE BAR CODE MARKINGS.

C. BAR CODE RESTRICTIONS:

1. DENSITY OF THE BAR CODE SHALL BE 9.4 CHARACTERS PER INCH UNLESS OTHERWISE SPECIFIED.
2. HEIGHT OF BAR CODE SHALL BE 0.25 INCH OR GREATER. THE HEIGHT OF THE BARS MAY EXTEND TO THE EDGE OF THE LABEL.
3. DISTANCE BETWEEN THE BAR CODE AND THE HRI WILL BE BETWEEN 0.003 AND 0.010 INCH. THE PREFERRED DISTANCE IS 0.03.
4. HEIGHT OF THE HRI SHALL BE BETWEEN 0.09 AND 0.15 INCH. THE PREFERRED HEIGHT IS 0.09.

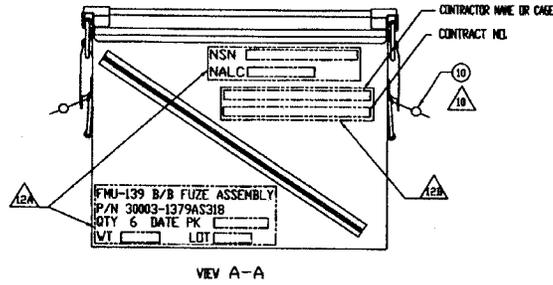
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B. DRAWING 1379AS926, SHEET 2 OF 2

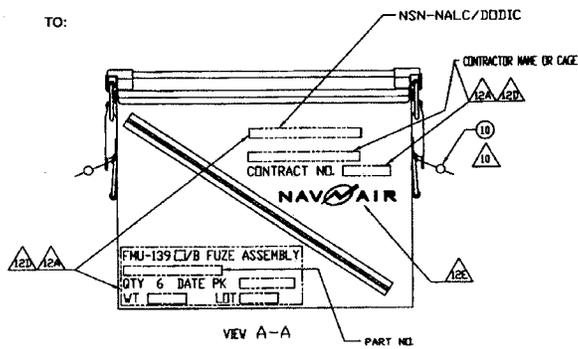
11. ZONE A-4, VIEW A-A, REVISE MARKINGS AND NOTE CALLOUTS, CHANGE:

FROM:



TO:

TO:

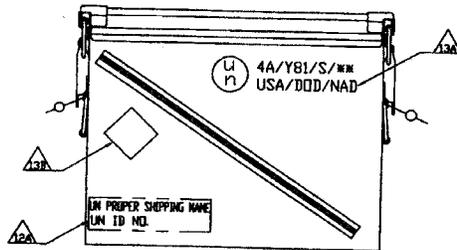


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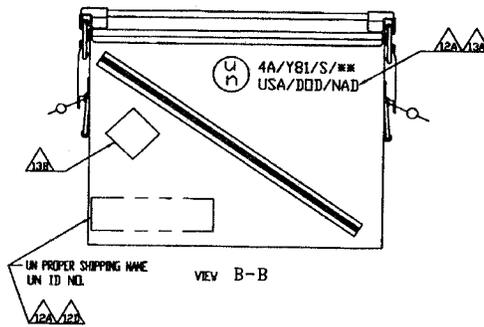
12. ZONE B-4, VIEW B-B, REVISE MARKINGS AND NOTE CALLOUTS, CHANGE:

FROM:



VIEW B-B

TO:



VIEW B-B

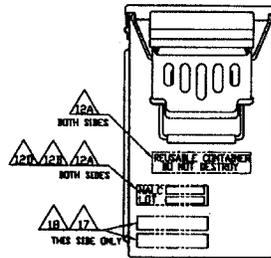
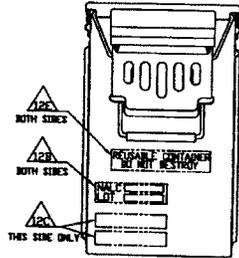
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13. ZONE A-2, END VIEW, REVISE NOTE CALLOUTS, CHANGE:

FROM:

TO:



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DOCUMENTS CONTAINING OZONE DEPLETING CHEMICALS/OZONE DEPLETING SUBSTANCES (ODC)/(ODS) FOR THE FUZE AND ACCESSORIES - FMU-139B/B (USAF)

SOME OF THE FOLLOWING DOCUMENTS MAY NOT APPEAR IN THE ADL DUE TO THE FACT THAT THEY ARE LOWER LEVEL DOCUMENTS, THEY ARE STILL APPLICABLE AND HAVE BEEN REVIEWED FOR THE USES OF ODC'S/ODS'S AND A REPLACEMENT HAS BEEN SUGGESTED. THE SUITABILITY OF THE SELECTED REPLACEMENT MUST BE VERIFIED BY THE CONTRACTOR IN TERMS OF PRODUCT PERFORMANCE REQUIREMENTS AND COMPATIBILITY WITH MANUFACTURING PROCESSES. UNDER NO CIRCUMSTANCES SHALL THE SUGGESTED REPLACEMENT BE USED IF THEY VIOLATE LOCAL, STATE, OR FEDERAL LAWS AND REGULATIONS.

<u>LEVEL 1</u>	<u>LEVEL 2</u>	<u>APPLICATION</u>	<u>SUGGESTED REPLACEMENT</u>
MIL-D-3464E	TT-E-485	Carbon Tetrachloride	Replace with Chloroform
MIL-I-8835A	MIL-P-116	1,1,1-Trichlorethane	Replace with Trichloroethylené
MIL-P-19834B AMD 2	FED-STD-191A NTC 6	Trichloroethane is an ODS.	Replace with Trichloroethylene in Method 1600.
MIL-STD-331B NTC 8		Refrigerant R-12 is an ODS.	No replacement recommended - use a non ODS Halogen gas.