

PATUZYUW RUWFADP0001 0391732-UUUU--RHMFIUU.
ZNR UUUUU ZUI RHHMMCB2397 0401630
P 081335Z FEB 05 ZYB PSN 476941H31
FM NAVAIRDEPOT NORTH ISLAND CA
TO RUCOSSA/COMNAVAIRFOR SAN DIEGO CA//421R//
RUWFEAA/COMNAVAIRFOR SAN DIEGO CA//421R//
RHMFIUU/COMNAVAIRES NEW ORLEANS LA//N42/N422B/N4314//
RHMFIUU/COMMARFORPAC//ALD-E//
RUHEKBC/COMMARFORPAC//ALD-E//
RHMFIUU/COMMARFORLANT//ALD-E//
RHMFIUU/NAMTRAGRU PENSACOLA FL//N422B//
INFO RHMFIUU/CMC WASHINGTON DC//ASL-34//
RHMFIUU/COMNAVAIRSYSCOM PATUXENT RIVER MD//3.2F//
RUCOSSA/COMNAVAIRLANT NORFOLK VA//N422B//
RHMFIUU/NAVAIRWARCENACDIV LAKEHURST NJ//11725/3144/4822/4872//
RUWFEAA/NATEC PAC SAN DIEGO CA//3.7/3.3//
RHMFIUU/CG FIRST MAW//ALD-E//
RHMFIUU/CG SECOND MAW//ALD-E//
RHMFIUU/CG THIRD MAW//ALD-E//
RHMFIUU/CG FOURTH MAW//ALD-E//
RHMFIUU/NAVFAC MIDLANT NORFOLK VA//505/30M//
RHMFIUU/NAVAIRDEPOT NORTH ISLAND CA//32000/48730/97600//
RUAYAAE/COMFAIRWESTPAC ATSUGI JA//N42/N422B//
RUYNAAR/COMFAIRWESTPAC ATSUGI JA//N42/N422B//
RHMFIUU/CNATRA CORPUS CHRISTI TX//N422//
RHMFIUU/NAVICP MECHANICSBURG PA//05932N//
RHMFIUU/FMP MMF CHARLIE
RHMFIUU/COMSTRKFIGHTWINGPAC DET AIMD LEMOORE CA//010/05C/AVO//
RHMFIUU/FLTIMAGCOMPAC SAN DIEGO CA//OIC//
RHMFIUU/ELU ONE//N421SVG//
RHMFIUU/HMX ONE QUANTICO VA//G/S/AVO//
RHMFIUU/MALS ELEVEN//AMO/AVO//
RHMFIUU/MALS TWELVE//AMO/AVO//
RHMFIUU/MALS THIRTEEN//AMO/AVO//
RHMFIUU/MALS FOURTEEN//AMO/AVO//
RHMFIUU/MALS SIXTEEN//AMO/AVO//
RHMFIUU/MALS TWO FOUR//AMO/AVO//
RHMFIUU/MALS TWO SIX//AMO/AVO//
RHMFIUU/MALS TWO NINE//AMO/AVO//
RHMFIUU/MALS THREE ONE//AMO/AVO//
RHMFIUU/MALS THREE SIX//AMO/AVO//
RHMFIUU/MALS THREE NINE//AMO/AVO//
RHMFIUU/MALS FOUR ONE//AMO/AVO//
RHMFIUU/MALS FOUR TWO//AMO/AVO//
RHMFIUU/MALS FOUR NINE//AMO/AVO//
RHMFIUU/NAF WASHINGTON DC//40A//
RUAYABC/AIMD ATSUGI JA//70/AVO//
RUYNAAM/AIMD MISAWA JA//70/AVO//
RUVNSAD/AIMD DIEGO GARCIA//OIC//
RHMFIUU/AIMD WHIDBEY ISLAND WA//N01V//
RUWFAEB/AIMU FALLON NV//AIMD/AVO//
RHMFIUU/NAS ATLANTA GA//40//
RHMFIUU/NAS JRB FORT WORTH TX//40//
RHMFIUU/NAS SIGONELLA IT//AIMD/AVO//
RHMFIUU/MCC ONE//OIC//
RHMFIUU/MCC THREE//OIC//

RHMFIUU/NAVAIRWPNSMAINTUNIT ONE GU//00//

BT

UNCLAS //N13052//

MSGID/GENADMIN/NAVAIRDEPOT NORTH ISLAND CA/48730//

SUBJ/SUPPORT EQUIPMENT BULLETIN(SEB) NR 879,(TD CODE 63),

/WUCS 33AGO,33AJO,33ACO MOBILE FACILITIES,

/NEUTRAL-GROUND SEPARATION, INSPECTION OF NQOB PANELBOARD

/(400HZ-60HZ-28VDC) (30003 PN 1339AS364-1,-3)//

REF/A/DOC/AG-360MF-IIN-000/01AUG1996//

REF/B/DOC/NAVAIR 19-25-177/01MAR1995//

REF/C/DOC/SEB NO 877/-//

REF/D/DOC/MIL-HDBK-419A/-//

REF/E/DOC/NAVAVNLOGCENINST 13050.2/-//

REF/F/DOC/MIL-S-8512/-//

AMPN/-//

NARR/THIS SEB SEPARATES NEUTRAL CONDUCTOR FROM GROUND WITHIN (30003) PN 1339AS364-1 AND -3 NQOB POWER PANEL. REF A IS MOBILE FACILITY SITE

PLANNING AND INSTALLATION INSTRUCTIONS. REF B IS MOBILE FACILITY OPERATION AND INTERMEDIATE MAINTENANCE MANUAL. REF C IS SUPPORT EQUIPMENT BULLETIN TO DETERMINE TYPE OF PANELBOARD. REF D IS MILITARY HANDBOOK FOR GROUNDING, BONDING, AND SHIELDING. REF E DESCRIBES TECHNICAL DIRECTIVE REPORTING. REF F IS GENERAL SPECIFICATION FOR DESIGN OF SUPPORT EQUIPMENT.//

POC/L. BJURMAN/GS-12/NAVAIRDEPOT NORIS/-/TEL:DSN 735-5215

/EMAIL:BJURMANLA@NAVAIR.NAVY.MIL//

AKNLDG/-//

RMKS/

1. COG CODE: NAVAIR DEPOT NORIS/CODE 48730/R. VOTAW/GS-12/DSN 735-3921/COMM (619) 545-3921; NAVAIR DEPOT NORIS/CODE 32000/H. SALDIVAR/GS-12/DSN 735-4000/COMM (619) 545-4000

2. CATEGORY: URGENT

3. DOCUMENTATION AFFECTED: REFS A AND B.

4. PURPOSE: TO DIRECT ONE-TIME INSPECTION OF TYPE NQOB ELECTRICAL POWER DISTRIBUTION PANELBOARD (30003) PN 1339AS364-1 AND (30003) PN 1339AS364-3 FOR GROUND BUS INSTALLATION. SEB DIRECTS INSPECTION AND SEPARATION OF NEUTRAL CONDUCTOR FROM GROUND WITHIN THE MF ELECTRICAL PANEL. IT DOES NOT ALTER TEST OR MAINTENANCE EQUIPMENT.

5. APPLICATION:

A. BASIC EQUIPMENT:

QTY	S/N	NSN	MIL DES	NOMENCLATURE	CAGE	P/N	TEC	WUC
452	UNK	5411-01-355-4320	NONE	MOBILE FACILITY-SIDE OPENING "A"	30003	1339AS-500-1	GMJU	33AGO
363	UNK	5411-01-355-4321	NONE	MOBILE FACILITY-SIDE OPENING "B"	30003	1339AS-501-1	GMJV	33AJO
1987	UNK	5411-01-355-4323	NONE	MOBILE FACILITY-TURNKEY "B"	30003	1339AS-701-1	GMJS	33ACO
271	UNK	CANCELLED	NONE	MOBILE FACILITY BASIC "A"	30003	1339AS-100-1	GMJW	NOC
421	UNK	CANCELLED	NONE	MOBILE FACILITY BASIC "B"	30003	1339AS-100-2	GMJX	NOC

MFS HAVING MFG301-1 DECAL ON ELECTRICAL PANELBOARD ARE NOT INCLUDED. (MFG301-1 DECAL IDENTIFIES THAT NEUTRAL IS NOT GROUNDED IN MF.)

B. TRAINERS: N/A

C. SPARES: N/A

6. COMPLIANCE:

A. BASIC EQUIPMENT: INTERMEDIATE LEVEL MAINTENANCE ACTIVITIES AND ABOVE AS SOON AS POSSIBLE, BUT NO LATER THAN 120 DAYS AFTER RECEIPT OF THIS DIRECTIVE.

B. TRAINERS: N/A

C. SPARES: N/A

7. MAN-HOURS REQUIRED:

A. BASIC EQUIPMENT:	NUMBER MEN	SKILL	TTL MHRS??
INSPECT	1	EM3(NAVY)/6XXX(MARINES)	0.3 EACH
CORRECT	1	EM3(NAVY)/6XXX(MARINES)	0.7 EACH

B. TRAINERS: N/A

C. SPARES: N/A

8. SUPPLY DATA: VIA NAVAL MESSAGE, REQUISITION MFG301-1 DECAL THROUGH SUPPLY SOURCE (1) ONLY AFTER ACCOMPLISHING NEUTRAL-GROUND SEPARATION AND PROVIDING SERIAL NUMBER OF MF. REQUISITION ALL OTHER PARTS THROUGH SOURCE (2). QUANTITIES OF ALL ITEMS ARE DETERMINED BY ON-SITE SURVEY OF NQOB CIRCUIT BREAKER PANEL (PN 1339AS364-1,-3).

CAGEC: 91145

NAVAIR DEPOT NORTH ISLAND

CODE 32000, H. SALDIVAR

P.O. BOX 357058

SAN DIEGO, CA 92135-7058

619-545-4000

DSN 735-4000

(91145) P/N MFG301-1 NOMEN NEUTRAL DECAL NSN NONE

SOURCE (2)

NAVAL SUPPLY SYSTEM

PART NR	CAGE	NOMEN	NSN	COST
PK12GTA	14280	GROUND BUS KIT	5925010776316	\$5.20
M5086/2-6-9	81349	WIRE,ELECTRICAL	6145005786594	\$5.20
MS25036-122	96906	TERMINAL,LUG	5940001138190	\$2.85
35 1/2 GREEN	75037	TAPE,ELECTRICAL	5970010139366	\$.09
RT1400	26863	STRAP	5975001563253	\$.88
PENETROX-A	09922	CRSN PREVENTIVE	8030000568673	\$.05
COST FOR EACH MF THAT REQUIRES BUS INSTALLATION				\$14.27

9. REIDENTIFICATION: N/A

10. DETAILED INSTRUCTIONS:

A. BASIC EQUIPMENT:

WARNING

TO PREVENT INJURY OR DEATH, MOBILE FACILITY (MF) 60 HZ AND 400 HZ POWER SOURCES SHALL BE SECURED IN THE OFF (DE-ENERGIZED) POSITION, BE DISCONNECTED FROM MF, AND SHALL HAVE WARNING TAGS ATTACHED. READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS OF REF A CHAPTER 6 PARA 6.3.2 AND REF B WORK PACKAGE (WP)004 00 ELECTRICAL POWER SHUTDOWN AND CABLE DISCONNECTION PROCEDURES. BEFORE PERFORMING SEB ENSURE MF ELECTRICAL SUPPLY IS GROUNDED PER REF A CHAPTER 3.

(1) ENSURE REF C SEB HAS BEEN ACCOMPLISHED BEFORE STARTING THESE INSTRUCTIONS.

(2) SHUT OFF ELECTRICAL POWER TO MF BEING INSPECTED IAW SHUTDOWN PROCEDURES IN REF B, WORK PACKAGE (WP) 004 00, PARA 58.

MSGID/GENADMIN/NAVAIRDEPOT NORTH ISLAND CA/48730//

SUBJ/SUPPORT EQUIPMENT BULLETIN(SEB) NR 879,(TD CODE 63),

(3) IF MF IS POWERED BY AN INU MF, DE-ENERGIZE ELECTRICAL POWER AT THE INU MF OUTPUT CIRCUIT BREAKER CONTROLLING POWER TO MF BEING INSPECTED AND ATTACH WARNING TAG TO INU MF OUTPUT CIRCUIT BREAKER PER REF B, WP004 00, PARA 59.

(4) DISCONNECT POWER CABLES FROM CONNECTORS LOCATED OUTSIDE THE MF IAW REF A CHAPTER 6, PARA 6.3.2.2.

(5) LOCATE MAIN CIRCUIT BREAKER PANEL WITHIN MF TO BE INSPECTED. REFER TO REF B, WP004 00, FIG 1.

(6) REFER TO REF B, WP022 00, FIG 1. REMOVE FASTENERS THAT SECURE CIRCUIT BREAKER PANEL FRONT SURFACE AND REMOVE. ALSO, REMOVE FASTENERS THAT SECURE PANELBOARD PLATE WHICH COVERS THE CIRCUIT BREAKERS AND REMOVE PLATE.

(7) LOCATE POWER ENTRY PANEL (P/N 1339AS383-1) WHICH IS DIRECTLY BELOW THE POWER MONITOR PANEL INSIDE MF (REF B, WP 020 00, FIG 2). REMOVE SCREWS SECURING POWER ENTRY PANEL ENCLOSURE COVER AND REMOVE COVER.

(8) LOOSEN SCREWS SECURING THE POWER MONITOR PANEL COVER AND SWING OPEN. TERMINAL BOARD NR 1 (TB1) IS FOUND BEHIND THE POWER MONITOR PANEL COVER (REF B, WP006 00, FIG 4B).

(9) REMOVE NUTS SECURING COVER ON TB1 AND USE MULTI-METER TO TEST TB1 TO VERIFY POWER IS NO LONGER PRESENT.

(10) INSPECT CIRCUIT BREAKER PANEL TO DETERMINE IF SEPARATE GROUND BUS HAS BEEN INSTALLED. THE GROUND BUS IS THE TERMINATING POINT FOR ALL GREEN COLORED OR GREEN BANDED WIRES WITHIN THE CIRCUIT BREAKER PANEL ENCLOSURE. A SEPARATE GROUND BUS CONTAINS ONLY GREEN COLORED AND GREEN BANDED WIRES. IF A SEPARATE GROUND BUS EXISTS, PROCEED TO INSTRUCTION NUMBER 20. IF A SEPARATE GROUND BUS DOES NOT EXIST PROCEED TO NEXT INSTRUCTION.

(11) LOCATE THE THREE EXISTING NEGATIVE AND NEUTRAL BUSES NEAR THE TOP OF THE PANEL BOARD.

(12) INSTALL GROUND BUS KIT (P/N PK12GTA) NEAR THE EXISTING NEGATIVE AND NEUTRAL BUSES NEAR THE TOP OF THE PANEL BOARD. TO FACILITATE TRANSFERAL OF GROUND WIRES FROM THE EXISTING BUSES TO THE NEW GROUND BUS, POSITION GROUND BUS WITHIN 6 INCHES OF EXISTING BUSES. UTILIZE SCREWS THAT COME WITH GROUND BUS TO INSTALL.

(13) COUNT NUMBER OF GROUND WIRES TO BE TRANSFERRED TO NEW GROUND BUS. MOVE ALL GREEN OR GREEN BANDED GROUND WIRES OVER TO THE NEW GROUND BUS AND SECURE. VERIFY ALL GROUND WIRES WERE TRANSFERRED.

(14) LOCATE THE E3 GROUND STUD WHICH IS NEAREST TO THE BOTTOM OF THE POWER ENTRY PANEL. THE E3 GROUND STUD SECURES THE GROUND LUG MOUNTED TO THE EXTERIOR OF THE POWER INPUT PANEL (REF B, WP 020 00, FIG 2C).

(15) MEASURE AND CUT 6 FEET OF #6 AWG WIRE (P/N M5086/2-6-9). ROUTE WIRE BETWEEN NEW GROUND BUS AND E3 GROUND STUD BY INSTALLING THROUGH MONITOR PANEL ENCLOSURE AND THROUGH HOLE PASSING INTO THE POWER ENTRY ENCLOSURE. CUT OFF EXCESS GROUND WIRE. STRIP 1/4 INCH FROM BOTH ENDS OF GROUND WIRE. CONNECT ONE END OF WIRE TO THE NEW GROUND BUS. ON OTHER END OF GROUND WIRE CRIMP WIRE LUG (P/N MS25036-122). IDENTIFY GROUND WIRE BY APPLYING A BAND OF GREEN TAPE (P/N 35 1/2 GREEN) TWO INCHES FROM EACH END OF WIRE.

(16) REMOVE NUT SECURING E3 GROUND SCREW AND REMOVE SCREW (REF B, WP 020 00, FIG 2). REMOVE ANY CORROSION ON SCREW OR AROUND HOLE THAT MAY INTERFERE WITH ELECTRICAL CONTACT IAW REF B, WP020 00, PARA 11.

(17) REATTACH ALL GROUND WIRES ONTO E3 GROUND SCREW INCLUDING NEW GROUND WIRE FROM NEW GROUND BUS. REINSTALL THE E3 GROUND SCREW INTO THE EXISTING HOLE SO THAT SCREW THREADING EXTENDS OUTSIDE OF THE MF.

(18) FROM THE MF EXTERIOR, SECURE SCREW WITH EXISTING NUTS AND WASHERS. REATTACH EXISTING EXTERIOR EARTH GROUND WIRE AND SECURE.

(19) AFTER SECURING GROUND FASTENERS, APPLY SMALL AMOUNT OF ANTI-CORROSIVE COMPOUND (P/N PENETROX-A) TO SEAL JUNCTION OF E3 GROUND SCREW AT POWER ENTRY PANEL.

(20) LOCATE THE NEUTRAL STUDS FOR 60 HZ AND 400 HZ WHICH ARE AT EACH END OF TB1 (REF B, WP007 00, FIG 4B). THE NEUTRAL WIRES ARE COLOR CODED WITH WHITE TAPE BAND. IF NO WIRING EXISTS FOR 400 HZ AT

TB1, ONLY THE 60 HZ NEUTRAL NEEDS TO BE SEPARATED FROM GROUND.

(21) LOCATE GROUND JUMPER WIRES WHICH EXTEND BETWEEN EACH OF THE 60 HZ AND 400 HZ NEUTRAL STUDS ON TB1 TO THE E3 GROUND STUD. TRACE WIRE TO E3 GROUND STUD IN POWER ENTRY PANEL. REMOVE WIRE TIES TO LOCATE THE JUMPER WIRES IN WIRE BUNDLE IF NECESSARY. ENSURE EACH WIRE IS PROPERLY IDENTIFIED AS GROUND JUMPER WITH GREEN TAPE (P/N 35 1/2 GREEN).

(22) UNSCREW NUT ON 60 HZ NEUTRAL STUD OF TB1 THAT SECURES GROUND JUMPER AND REMOVE GROUND JUMPER WIRE FROM 60 HZ NEUTRAL STUD. UNSCREW NUT ON 400 HZ NEUTRAL STUD OF TB1 THAT SECURES GROUND JUMPER AND REMOVE GROUND JUMPER WIRE FROM 400 HZ NEUTRAL STUD. AFTER DISCONNECTING GROUND JUMPER WIRES, PLACE NEUTRAL WIRES BACK ON ORIGINAL STUDS. TO PREVENT CONTACT WITH TB1 TERMINALS DURING TESTING, TEMPORARILY POSITION DISCONNECTED END OF GROUND JUMPER WIRE AWAY FROM TB1.

(23) TEST FOR CONTINUITY BETWEEN NEUTRAL AND GROUND IAW REF D, VOLUME 2, SECTION 2.2.2.2.4 AND THE FOLLOWING: USE MULTI-METER AND MEASURE RESISTANCE BETWEEN E3 GROUND STUD AND 60 HZ NEUTRAL TERMINAL ON TB1. THEN MEASURE RESISTANCE BETWEEN E3 GROUND STUD AND 400 HZ NEUTRAL TERMINAL ON TB1. IF ONE OR BOTH RESISTANCES ARE LESS THAN 10 OHMS, PROCEED TO NEXT INSTRUCTION. IF BOTH RESISTANCES ARE 10 OHMS OR GREATER, PROCEED DIRECTLY TO INSTRUCTION NR 26.

(24) IF RESISTANCE BETWEEN NEUTRAL AND GROUND IS LESS THAN 10 OHMS, INSPECT TO ENSURE GREEN GROUND WIRES ARE NOT CONNECTED TO EITHER 60 HZ OR 400 HZ NEUTRAL TERMINAL OR BUS. CORRECT BY MOVING GROUND WIRES TO GROUND BUS AND REPEAT INSTRUCTION NR 23. AFTER SECOND TEST, IF RESISTANCE LESS THAN 10 OHMS STILL EXISTS BETWEEN EITHER 60 HZ OR 400 HZ AND GROUND, PROCEED TO NEXT INSTRUCTION.

(25) IF NEUTRAL AND GROUND WERE NOT SEPARATED (LESS THAN 10 OHMS), THE GROUND JUMPER WIRES SHALL BE RECONNECTED TO TB1 NEUTRAL STUDS TO PREVENT NEUTRAL CURRENT FLOW THROUGH EQUIPMENT CONTAINING GROUNDED NEUTRAL. RECONNECT THE EXISTING GROUND JUMPER WIRE BETWEEN THE TB1 60 HZ NEUTRAL AND THE E3 GROUND STUD. ALSO RECONNECT THE EXISTING GROUND JUMPER WIRE BETWEEN THE TB1 400 HZ NEUTRAL AND THE E3 GROUND STUD. SECURE WIRES WITH EXISTING FASTENERS. PROCEED DIRECTLY TO INSTRUCTION NR 27.

(26) IF RESISTANCE BETWEEN NEUTRAL AND GROUND IS 10 OHMS OR GREATER, NEUTRAL AND GROUND ARE SEPARATED. DO NOT RECONNECT GROUND JUMPER MSGID/GENADMIN/NAVAIRDEPOT NORTH ISLAND CA/48730// SUBJ/SUPPORT EQUIPMENT BULLETIN(SEB) NR 879,(TD CODE 63), WIRES TO TB1. USE ELECTRICAL TAPE (P/N 35 1/2 GREEN) TO INSULATE THE ENDS OF EACH DISCONNECTED NEUTRAL-TO-GROUND JUMPER WIRE. POSITION AND TIE JUMPER WIRE WITH STRAP (PN RT1400) TO SECURE AND AVOID ACCIDENTAL CONTACT WITH TB1.

(27) ENSURE WIRES AND NUTS ARE SECURED ONTO TB1 STUD TERMINALS. REATTACH COVER OVER TB1 AND SECURE WITH EXISTING NUTS. REATTACH POWER ENTRY PANEL COVER AND FASTENING HARDWARE. CLOSE POWER MONITOR PANEL AND SECURE FASTENING SCREWS.

(28) INSTALL POWER DISTRIBUTION PANEL COVER AND PANELBOARD PLATE AND SECURE WITH EXISTING SCREWS PER REF B, WP 022 00, FIG 1.

(29) REATTACH POWER INPUT CABLES LOCATED OUTSIDE THE MF IAW REF A, CHAPTER 6, PARA 6.3.2.

(30) ENERGIZE ELECTRICAL POWER TO MF AND REMOVE WARNING TAGS PER REF B, WP004 00.

(31) AFTER PERFORMING SEB ON ALL APPLICABLE MFS AT EACH SITE, REPORT VIA CHAIN OF COMMAND THE MODIFICATION RESULTS OF ALL MFS USING ONE MESSAGE PER SITE. ADDRESS MESSAGE TO NAVAIRDEPOT NORTH ISLAND CA

CODE 32000. MESSAGE SHALL IDENTIFY THE FOLLOWING: (A) MF SERIAL NUMBER, (B) MF CONFIGURATION NUMBER, (C) WHETHER OR NOT NEUTRAL WAS SUCCESSFULLY SEPARATED FROM GROUND IN MF, (D) MAILING ADDRESS OF REQUESTING UNIT.

(32) UPON RECEIPT OF MESSAGE, NORTH ISLAND CODE 32000 WILL SEND DECAL, PN MFG301-1, FOR ONLY THOSE MFS IN WHICH THE NEUTRAL AND GROUND WERE SUCCESSFULLY SEPARATED. DECAL SHALL BE PLACED ON DOOR OF MAIN POWER DISTRIBUTION PANEL INSIDE MF TO INDICATE NEUTRAL HAS BEEN SEPARATED FROM GROUND WITHIN THE MF.

11. WEIGHT AND BALANCE: NO EFFECT ON WEIGHT AND BALANCE

12. RECORDS AFFECTED: RECORD ACCOMPLISHMENT IN SUPPORT EQUIPMENT HISTORY AND RECORD BOOK OPNAV FORM 4790/51. REPORT COMPLIANCE THROUGH VIDS/MAF OPNAV FORM 4790/60 AND THROUGH TECHNICAL DIRECTIVE STATUS ACCOUNTING SYSTEM PER REF E.

13. VERIFIED BY: MALS-14, MCAS CHERRY POINT, NC, MSG 171121ZAUG2004

14. TARGET COMPLETION DATE: 31 DECEMBER 2005.

15. RELATED INSTRUCTIONS/INFORMATION: REF F SPECIFIES USE OF NATIONAL ELECTRICAL CODE (NFPA 70) WHEN DESIGNING SUPPORT EQUIPMENT ELECTRICAL SYSTEMS. NATIONAL ELECTRICAL CODE GROUNDING REQUIREMENTS WERE CHANGED IN 1999 AS FOLLOWS: WHEN SEPARATE STRUCTURES ARE SUPPLIED FROM A COMMON SERVICE AND A GROUNDING CONDUCTOR IS RUN WITH SUPPLY CONDUCTORS, THE NEUTRAL SHALL NOT BE CONNECTED TO EQUIPMENT GROUND OR GROUND ELECTRODE AT THE STRUCTURE. MOBILE FACILITY (MF) POWER INPUT AND TRANSFER CABLING CONTAINS GROUNDING CONDUCTORS THAT INTERCONNECT EACH MF GROUND AND STRUCTURE. EACH MF CONTAINING A GROUNDED NEUTRAL AND RECEIVING POWER FROM A COMMON SERVICE IS IN VIOLATION OF NFPA 70, ARTICLE 250.32(B)(1) GROUNDING REQUIREMENTS. MFS MUST COMPLY WITH NFPA 70 ARTICLE 250.24 WHICH PROHIBITS GROUNDED NEUTRAL CONNECTIONS IN MFS ON THE LOAD SIDE OF THE SERVICE EQUIPMENT DISCONNECTING MEANS.//

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