

PATUZYUW RUWFADP0001 0381739-UUUU--RHMFIUU.  
ZNR UUUUU ZUI RHHMCA2517 0401628  
P 071336Z FEB 05 ZYB PSN 476882H35  
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 881,(TD CODE 63),

/WUC 33AEO MOBILE FACILITIES,

/NEUTRAL-GROUND SEPARATION, INSPECTION OF INTEGRATION UNIT//

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

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

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

REF/D/DOC/NAVAVNLOGCENINST 13050.2/-//

REF/E/DOC/MIL-S-8512/-//

AMPN/-//

NARR/THIS SEB SEPARATES NEUTRAL CONDUCTOR FROM GROUND WITHIN (30003) PN 1339AS946-1 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 MILITARY HANDBOOK FOR GROUNDING, BONDING, AND SHIELDING. REF D DESCRIBES TECHNICAL DIRECTIVE REPORTING. REF E IS GENERAL SPECIFICATION FOR DESIGN OF SUPPORT EQUIPMENT.//

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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 INTEGRATION UNIT (INU) MOBILE FACILITY (MF) 60 HZ ELECTRICAL POWER DISTRIBUTION PANEL (30003) P/N 1339AS946-1 FOR NEUTRAL AND GROUND BUS SEPARATION. SEB ALSO DIRECTS INSPECTION AND SEPARATION OF 60 HZ AND 400 HZ NEUTRAL CONDUCTORS FROM GROUND AT INU MF POWER BOX NR 1. IT DOES NOT ALTER TEST OR MAINTENANCE EQUIPMENT.

5. APPLICATION:

QTY	S/N	NSN	MIL DES	NOMENCLATURE	CAGE	P/N	TEC	WUC
857	UNK	5411-01-	NONE	MOBILE FACILITY-	30003	1339AS	GMJT	33AEO
		355-4318		INTEGRATION UNIT		-900-2		

INU MFS HAVING MFG301-1 DECAL ON ELECTRICAL PANELBOARD ARE NOT INCLUDED. (MFG301-1 DECAL IDENTIFIES THAT NEUTRAL IS NOT GROUNDED IN INU 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 OF 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 P/N 1339AS946-1 POWER DISTRIBUTION PANEL ON INU MFS.

SOURCE (1)

CAGEC: 91145  
NAVAL AIR 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	\$19.50
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				\$28.57

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) SHUT OFF ELECTRICAL POWER TO INU MF BEING INSPECTED IAW SHUTDOWN PROCEDURES IN REF B, WORK PACKAGE (WP) 004 00, PARA 59.

(2) DE-ENERGIZE CIRCUIT BREAKER OR SWITCH CONTROLLING POWER INPUT TO INU MF BEING INSPECTED AND ATTACH WARNING TAG TO CIRCUIT BREAKER OR SWITCH PER REF B, WP004 00, PARA 59.

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

(4) LOCATE CIRCUIT BREAKER PANEL WITHIN INU MF TO BE INSPECTED. REFER TO REF B, WP004 00, FIG 4.

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

MSGID/GENADMIN/NAVAIRDEPOT NORTH ISLAND CA/48730//  
SUBJ/SUPPORT EQUIPMENT BULLETIN(SEB) NR 881,(TD CODE 63),

(6) LOCATE THE POWER TRANSFER BOX NR 1 INSIDE INU MF (REF B, WP 021 00, FIG 1). REMOVE SCREWS SECURING POWER TRANSFER BOX COVER AND REMOVE COVER.

(7) LOCATE TERMINAL BOARD NR 1 (TB1) AND TERMINAL BOARD NR 2 (TB2) WITHIN POWER TRANSFER BOX NR 1. SEE REF B WP021 00 FIG 3.

(8) REMOVE NUTS SECURING COVERS ON TB1 AND TB2 AND USE MULTI-METER

TO TEST TB1 AND TB2 TO VERIFY POWER IS NO LONGER PRESENT.

(9) INSPECT CIRCUIT BREAKER PANEL (REF B, WP004 00, FIG 4) 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 19. IF A SEPARATE GROUND BUS DOES NOT EXIST PROCEED TO NEXT INSTRUCTION.

(10) LOCATE THE EXISTING NEUTRAL BUS. THE NEUTRAL BUS IS ADJACENT TO THE CIRCUIT BREAKERS ON THE PANELBOARD (REF B WP022 00 FIG 4).

(11) INSTALL GROUND BUS KIT (P/N PK12GTA) WITHIN 6 INCHES OF EXISTING 60 HZ NEUTRAL BUS INSIDE THE CIRCUIT BREAKER PANEL. POSITION GROUND BUS TO FACILITATE TRANSFERAL OF GROUND WIRES FROM THE NEUTRAL BUS. DRILL MOUNTING HOLES AND SECURE GROUND BUS UTILIZING SCREWS THAT COME WITH GROUND BUS KIT.

(12) 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.

(13) INSIDE POWER TRANSFER BOX NR 1, LOCATE THE E5 GROUND STUD WHICH IS NEAREST TO THE BOTTOM OF THE ENCLOSURE (REF B WP 021 00, FIG 3). THE E5 GROUND STUD SECURES THE GROUND LUG MOUNTED TO THE EXTERIOR OF POWER TRANSFER BOX NR 1.

(14) REMOVE RACEWAY COVERS BETWEEN CIRCUIT BREAKER PANEL AND POWER TRANSFER BOX NR 1. MEASURE 30 FEET OF #6 AWG WIRE (P/N M5086/2-6-9) AND INSTALL IN RACEWAY BETWEEN NEW GROUND BUS IN CIRCUIT BREAKER PANEL AND E5 GROUND STUD LOCATED IN POWER TRANSFER BOX NR 1. 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 IN THE CIRCUIT BREAKER PANEL. 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.

(15) REMOVE NUT SECURING E5 GROUND SCREW AND REMOVE SCREW (REF B WP021 00 FIG 3). REMOVE ANY CORROSION ON SCREW OR AROUND HOLE THAT MAY INTERFERE WITH ELECTRICAL CONTACT IAW REF B, WP021 00, PARA 12.

(16) REATTACH ALL GROUND WIRES ONTO E5 GROUND SCREW AND INCLUDE NEW GROUND WIRE FROM NEW GROUND BUS. REINSTALL THE E5 GROUND SCREW INTO THE EXISTING HOLE SO THAT SCREW THREADING EXTENDS OUTSIDE OF THE MF.

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

(18) AFTER SECURING GROUND FASTENERS, APPLY SMALL AMOUNT OF ANTI-CORROSIVE COMPOUND (P/N PENETROX-A) TO SEAL JUNCTION OF E5 GROUND SCREW AT EXTERIOR OF POWER TRANSFER BOX NR 1.

(19) ON TB1 WITHIN POWER TRANSFER BOX NR 1, LOCATE THE NEUTRAL STUD FOR 60 HZ WHICH IS AT THE RIGHT END OF TB1 (REF B WP021 00 FIG 3). TB1 IS LOCATED ABOVE TB2. THE 60 HZ NEUTRAL WIRES ARE COLOR CODED WITH A SINGLE WHITE TAPE BAND OR ARE IDENTIFIED BY A LABEL. ON TB2, LOCATE THE NEUTRAL STUD FOR 400 HZ WHICH IS AT THE RIGHT END OF TB2 (REF B WP021 00 FIG 3). THE 400 HZ NEUTRAL WIRES ARE COLOR CODED WITH DOUBLE WHITE TAPE BANDS OR ARE IDENTIFIED BY A LABEL.

(20) LOCATE GROUND JUMPER WIRES WHICH EXTEND BETWEEN EACH OF THE 60 HZ AND 400 HZ NEUTRAL STUDS ON TB1 AND TB2 TO THE E5 GROUND STUD. TRACE WIRE TO E5 GROUND STUD WITHIN POWER TRANSFER BOX NR 1. IF NECESSARY, REMOVE WIRE TIES TO LOCATE THE JUMPER WIRES IN WIRE BUNDLE. ENSURE EACH WIRE IS PROPERLY IDENTIFIED AS GROUND JUMPER WITH GREEN TAPE (P/N 35 1/2 GREEN).

(21) 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 TB2 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.

(22) TEST FOR CONTINUITY BETWEEN NEUTRAL AND GROUND IAW REF C, VOLUME 2, SECTION 2.2.2.2.4 AND THE FOLLOWING: USE MULTI-METER AND MEASURE RESISTANCE BETWEEN E5 GROUND STUD AND 60 HZ NEUTRAL TERMINAL ON TB1. THEN MEASURE RESISTANCE BETWEEN E5 GROUND STUD AND 400 HZ NEUTRAL TERMINAL ON TB2. IF ONE OR BOTH RESISTANCES ARE LESS THAN 10 OHMS, PROCEED TO NEXT PARAGRAPH. IF BOTH RESISTANCES ARE 10 OHMS OR GREATER, PROCEED DIRECTLY TO INSTRUCTION NR 25.

(23) 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. IF GROUND WIRES ARE CONNECTED TO NEUTRAL BUS INSIDE CIRCUIT BREAKER PANEL, CORRECT BY MOVING GROUND WIRES TO GROUND BUS AND REPEAT INSTRUCTION NR 22. IF CONTINUITY STILL EXISTS BETWEEN EITHER 60 HZ OR 400 HZ NEUTRAL STUD AND GROUND, PROCEED TO NEXT INSTRUCTION.

(24) IF NEUTRAL AND GROUND WERE NOT SEPARATED (LESS THAN 10 OHMS), THE GROUND JUMPER WIRES SHALL BE RECONNECTED TO BOTH TB1 AND TB2 TO PREVENT NEUTRAL CURRENT FLOW THROUGH EQUIPMENT THAT CONTAINS THE GROUNDED NEUTRAL. RECONNECT THE EXISTING GROUND JUMPER WIRE BETWEEN THE TB1 60 HZ NEUTRAL AND THE E5 GROUND STUD. ALSO RECONNECT THE EXISTING GROUND JUMPER WIRE BETWEEN THE TB2 400 HZ NEUTRAL AND THE E5 GROUND STUD. SECURE WIRES WITH EXISTING FASTENERS. PROCEED DIRECTLY TO INSTRUCTION NR 26.

(25) IF RESISTANCE BETWEEN NEUTRAL AND GROUND IS 10 OHMS OR GREATER, NEUTRAL IS SEPARATED FROM GROUND WITHIN INU. APPLY ELECTRICAL TAPE (P/N 35 1/2 GREEN) TO INSULATE THE ENDS OF EACH DISCONNECTED NEUTRAL-TO-GROUND JUMPER WIRE AND POSITION AND TIE JUMPER WIRE WITH STRAP (PN RT1400) TO SECURE AND AVOID ACCIDENTAL CONTACT WITH TB1.

(26) ENSURE NEUTRAL WIRES ARE SECURED TO ORIGINAL TERMINALS ON TB1 AND TB2. SECURE WITH EXISTING NUTS. REATTACH COVER OVER TB1 AND TB2. SECURE WITH EXISTING NUTS. REATTACH POWER TRANSFER BOX COVER AND SECURE FASTENING SCREWS. INSTALL RACEWAY COVERS WITH EXISTING SCREWS.

(27) INSTALL CIRCUIT BREAKER PANEL COVER AND PANELBOARD PLATE AND MSGID/GENADMIN/NAVAIRDEPOT NORTH ISLAND CA/48730//  
SUBJ/SUPPORT EQUIPMENT BULLETIN(SEB) NR 881,(TD CODE 63),  
SECURE WITH EXISTING SCREWS PER REF B WP022 00 FIG 1.

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

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

(30) 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.

(31) 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.

(32) FOR INU MFS, DECAL SHALL BE PLACED ON DOOR OF P/N 1339AS946-1 CIRCUIT BREAKER PANEL TO INDICATE NEUTRAL HAS BEEN SEPARATED FROM

GROUND WITHIN THE INU 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 D.

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

14. TARGET COMPLETION DATE: 31 DECEMBER 2005

15. RELATED INSTRUCTIONS/INFORMATION: REF E 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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