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MSGID/GENADMIN/COMNAVSAFECEN/30/APR//

SUBJ/COMNAVSAFECEN AFLOAT SAFETY ADVISORY 4-14 ELECTRICAL SAFETY /DURING PMS//

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NARR/REF A IS NSTM 300 (REV. 9). REF B IS COMNAVSAFECEN AFLOAT SAFETY ADVISORY 4-11. REF C IS COMNAVSAFECEN AFLOAT SAFETY ADVISORY 2-13.//

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GENTEXT/REMARKS/1. DURING AFLOAT SAFETY SURVEYS AND WHILE OBSERVING PMS SPOT-CHECKS, WE HAVE NOTICED MANY ELECTRICAL SOURCE MAINTENANCE REQUIREMENT CARDS (MRC'S) WITH INCOMPLETE PERSONAL PROTECTIVE EQUIPMENT (PPE) LISTED IN THE TOOLS AND MATERIALS SECTION. OTHER MRC'S LIST THE PPE PROPERLY, BUT DON'T MENTION ITS USE IN THE PROCEDURE. SEVERAL MRC'S THAT REQUIRE A TAG OUT DO NOT LIST ALL THE PPE REQUIRED TO VERIFY A CIRCUIT IS DE-ENERGIZED. ADDITIONALLY, THE REQUIREMENT FOR VERIFYING A CIRCUIT DE-ENERGIZED OFTEN IS NOT SPECIFIED WITHIN THE STEPS OF THE MRC. MOST ELECTRICAL SOURCE RATING MRC'S STATE, "DANGEROUS VOLTAGES ARE PRESENT" AND TO "NOT WORK ALONE." THIS LEAVES NO DOUBT THAT RESIDUAL VOLTAGES MAY EXIST, YET MANY CARDS DO NOT CLEARLY DEFINE EXACTLY WHAT PPE THE MAINTENANCE PERSON SHOULD WEAR BECAUSE MATERIALS ARE NOT LISTED. TYPICALLY, THE SUPERVISOR'S PMS SPOT-CHECKS ONLY REVIEW THE PPE LISTED IN THE TOOLS/MATERIAL SECTION OF THE MRC AND THEY MAY NOT REALIZE NSTM 300, ELECTRIC PLANT - GENERAL, REQUIRES ADDITIONAL PPE. REVISION 9 HAS BEEN FULLY IMPLEMENTED AND AUTHORIZED FOR USE.

2. PPE IS NO LONGER LISTED IN THE "TOOLS, PARTS, MATERIALS, TEST EQUIPMENT MATERIALS" SECTION OF PMS CARDS. THERE IS A SPECIFIC NOTE IN EACH MRC DIRECTING THE MAINTENANCE PERSON TO FOLLOW APPLICABLE SECTIONS/CHARTS IN THE NSTM 300 REV 9. ALL CARDS SHOULD HAVE A STEP TO VERIFY THAT A CIRCUIT IS DE-ENERGIZED BEFORE THE MAINTENANCE PERSON PERFORMS THE MAINTENANCE. IF THE MRC DOES NOT HAVE THIS NOTE OR IVV STEP, THE MAINTENANCE PERSON FORCE SHOULD SUBMIT A FEEDBACK REPORT THROUGH THE CHAIN OF COMMAND.

3. IT IS CRUCIAL THAT SUPERVISORS ENSURE MAINTENANCE PERSONNEL USE ALL THE REQUIRED PPE DURING PLANNED AND CORRECTIVE MAINTENANCE. EVEN THOUGH AN MRC MAY NOT DIRECT THE MAINTENANCE PERSON TO VERIFY A CIRCUIT DE-ENERGIZED, IT REMAINS A REQUIREMENT PER NSTM

300 (REV. 9). COMNAVSEASYS COM (SEA 05), NSWCCD PHILADELPHIA, AND NAVSURFWAR CEN PORT HUENEME ARE AWARE OF THIS ISSUE. PENDING THE ADDITION OF A STANDARDIZED STATEMENT ON ALL ELECTRICAL MRC'S FOR PMS, SHIPS SHOULD ADHERE TO THE FOLLOWING:

A. SUPERVISORS/LCPO/DIVISION OFFICERS AND DEPARTMENT HEADS: REVIEW ELECTRICAL MRC'S TO ENSURE SAFE ACCOMPLISHMENT. THIS INCLUDES INITIAL VOLTAGE VERIFICATION (IVV) PROCEDURES AND POSSIBLE DEFICIENCIES IN THE PPE LISTED ON THE MRC'S.

B. NSTM 300 (REV. 9) PROVIDES GUIDANCE FOR THE REQUIRED PPE DURING MAINTENANCE ON ELECTRICAL EQUIPMENT. WHEN PERFORMING ELECTRICAL MAINTENANCE THAT REQUIRES A TAG OUT, NSTM 300 (REV.9) REQUIRES THE MAINTENANCE PERSON TREAT ALL CIRCUITS AS ENERGIZED EQUIPMENT UNTIL VERIFIED AS DE-ENERGIZED. CONDUCT INITIAL VOLTAGE VERIFICATION AFTER TAG OUT ACCORDING TO NSTM 300 REV 9 APPLICABLE TABLE.

C. CONSIDER DISCHARGING CAPACITORS AS WORKING ON ENERGIZED EQUIPMENT UNTIL THEY HAVE BEEN DISCHARGED FULLY. WHILE CONDUCTING ANY MAINTENANCE ON ENERGIZED CIRCUITS, STRICTLY FOLLOW NSTM 300.2.4.2.

D. DON'T USE INSTALLED METERING DEVICES TO PROVE A CIRCUIT DE-ENERGIZED; CONDUCT TESTS WITH A VOLTMETER OR VOLTAGE TESTER ACCORDING TO NSTM 300 REV 9 TABLE 300.I.2.

4. WE RECOMMEND PLACING A COPY OF THIS MESSAGE IN YOUR WORK CENTER PMS MANUALS UNTIL THE TECHNICAL COMMUNITY HAS VERIFIED ALL MRC'S FOR COMPLIANCE WITH THE ELECTRICAL SAFETY STANDARDS IN NSTM 300 (REV. 9).

5. SHIPS SHOULD INCLUDE THIS IN THEIR ELECTRICAL SAFETY TRAINING - INITIAL AND ANNUAL REFRESHER, AS WELL AS AT THE DIVISIONAL LEVEL WITHIN ELECTRICAL RATINGS.

6. THIS ADVISORY CANCELS REFS B AND C.//

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