



SUBMARINE
ELECTRICAL/
ELECTRONIC
CHECKLIST

A. ELECTRICAL/ELECTRONIC SAFETY PRACTICES

1. Is portable electrical equipment, both government and personally owned, including ships entertainment components, coffee pots, portable extension lights, etc. being electrically safety checked in accordance with PMS?

REF: NSTM 300 2.7.4.7

2. Berthing lighting and wiring, are there any electrical or electronic shock hazards in berthing?

REF: COMSUBLANT/COMSUBPACINST 5400.49 Article 4308
OPNAVINST 5100.19F D5-2 Para 3

3. Is the Submersible pump electrically safety checked? Is it properly grounded; are cables & connections in good repair?

REF: MIP 3000/029 MRC Q-1R (portable)
MIP 3000/029 MRC S-1R (permanently mounted)

4. Are electrical gloves available and used for operating the portable submersible pump?

REF: NSTM 300 2.7.1.1.A

5. Miscellaneous electrical deficiencies. Are there wires pulled from stuffing tubes, wires not properly dead ended, lights removed from mount without a temporary ground wire, or is the splash proof cover not properly installed on electrical panels.

REF: Dead ended cables NSTM 300-4.6.9
Electrical Panel Covers NSTM 300-4.8.1
Stuffing tubes NSTM 300-4.2.3.1.2

B. SAFETY TOOLS AND EQUIPMENT

1. Are rubber gloves free of damage (cracks, tears, and holes)?

REF: NSTM 300 Appendix I.1.2
MIP 3000/029 A-10R

2. Are rubber gloves properly stowed in a manner to prevent damage?

REF: MIP 3000/029 A-10R
OPNAVINST 5100.19E B0706b.

3. Is electrical safety insulating material used free of holes, tears, punctures, snags, embedded foreign objects, or other forms of damage.

REF: OPNAVINST 5100.19E D05.7.f.7 NSTM 300 Appendix I-Table 1 & 2
NSTM 300 2.4.2.e.

4. Are protective coveralls, IAW Appendix 300-I (or equivalent NFPA 70E rated Personal Protective Equipment (PPE)), properly worn when applicable per NSTM 300 Table 300-2-1a, Table 300-2-1b, Table 300-2-2, and Table 300-2-3 to protect from the damaging effects of an arc flash/blast?

REF: NSTM 300 300.2.4.2.j.

5. Are protective, impact-resistant, arc flash-rated face shields per NSTM 300 Appendix I worn to protect from the damaging effects of an arc flash/blast?

REF: NSTM 300 300-2.4.2.i.

6. Are metal hand held tools properly covered with insulating material (tape or plastisol)?

REF: NSTM 631 7.5.2
NSTM 300 2.4.2.1

C. ELECTRONIC SAFETY

1. Has the safety shorting probe been properly modified per MRC?

REF: MIP 3000/029 S-10R

D. NAVIGATION LIGHTING PANEL N-1

1. Have associated shock hazards been eliminated on the N-1 panel? (All interlocks, insulator screws, insulator bushings and shock hazard warning plate installed)

REF: N-1 A&I SSN N3542/ TRID T0181/ SSN V0051
MIP 4221/011 A-1 688/21/774 Class
MIP 4221/012 S-1 726 Class

E. FHL-14G TYPE FUSE HOLDER

1. Are the FHL-14g type fuse holder line side test points sealed with a non-hardening water repellent sealer?

REF: COMSUBPAC A&I N-983 and P-925
COMSUBLANT A&I B-955 and N-1207

F. ELECTRONIC HAZARD SIGNS

1. Is an R radiation hazard sign posted at the bottom of the ladder leading to the sail area?

REF: NSTM 400 400-3.4.10.f

G. PERSONAL COMPUTERS

1. Are only approved multi-outlet power strips (surge suppressors) in use? (i.e. Brooks Power Systems Model Z6-6 (2P), HFS INC, SK Inc. Model 5000, EFI Electronics Corp. Models MPS 453 EFI-120A and MPS-6, IPT Model Navy Controller V)

REF: MIP 3000/29 A-11R
NSTM 300 300-2.7.3.5.d

H. CLOTHES DRYER

1. Is there a placard in the vicinity of the dryer stating procedures for preventing fires?

REF: OPNAVINST 5100.19F D14.2.b.(7)

I. CLOTHES WASHER AND DRYERS

1. Are safety precautions and operating procedures posted in the vicinity of the washers and dryers?

REF: OPNAVINST 5100.19F D14.2.a.(7)

J. BATTERY VENT HEATERS

1. Is a sign requiring battery well ventilation heaters to be secured prior to opening battery compartment hatch installed at access hatch? (N/A for SVRLA battery)

REF: COMSUBLANT A&I N1456

K. PERSONNEL PROTECTIVE EQUIPMENT

1. Are chemical goggles staged for use by personnel entering the battery well to handle electrolyte or when any battery cell is open? (N/A for SVRLA battery)

REF: COMSUBLANT/COMSUBPACINST 5400.49 Article 4308.3.a(4)
NSTM 223 223-2.9.1.1 (Vol. 1)
NSTM 223 223-17.1.2 (Vol. 2)

L. RED DEVIL BLOWER

1. Are the safety screens installed on the red devil blower? Are safety screens in good repair?

REF: OPNAVINST 5100.19F D8-3 4.a.(2) & D8-5 b.(8)

2. Is the red devil blower electrically safety checked annually?

REF: MIP 3000/029 A-12

3. Are any red blowers in use for other than DC? (2 Blowers required for DC use only)

REF: PORTABLE EMERGENCY AND DAMAGE CONTROL EQUIPMENT EMERGENCY
EQUIPMENT

SSM, Volume 4, Part 6 Chapter 6

4. Are the electrical fittings lock-wired with the required tag attached? Does the blower have a "warning" or "caution" sign attached concerning operation in an explosive atmosphere?

REF: NSTM 512 512-1.4.7
NSTM 074 Volume 3 074-21.5

M. TOTAL VOLTAGE PROBES

1. Are the finger guards in place for the total voltage probes on the ICV panel? (N/A SVRLA battery)

REF: Newport News DWG #4047-356 (SSN 688 CLASS)
(SSBN726 CLASS) NAVSEA DWG #4683397
(SSN774 CLASS) EB DWG #87751-1521
Newport News DWG #DF 4047-1279
(SSN21 CLASS) NAVSEA DWG #7068079
(SSN21 CLASS) EB DWG #H751-1521
NAVSEA DWG #313-6404384