



SUBMARINE MECHANICAL CHECKLIST

A. SAFETY REVIEW ITEMS - SUB MECHANICAL A. DIESEL ENGINE

1. Is a crankcase explosion sign posted on the diesel requiring a 30 min wait prior to opening the crankcase? (N/A 774 class)

REF: NSTM 233
OPNAVINST 5100.19F

B. HDR ANTENNA

1. Is a warning plate installed (688) in the CRAC adjacent to HE2 and HE-28 stating: "Warning - Do not place HE-2 in the vent position with HE-28 not shut, unless venting air from HDR system per applicable SSM?"

REF: Control 688 Only
RLAR PYR-14081 Source Document is PY-46084

C. CHLORATE CANDLES

1. Are the chlorate candles being stowed in clean, dry and cool (under 100 degrees) areas that are free from oil, water and dirt contamination?

REF: NSTM 550
OPNAVINST 5100.19F
MIP 5154/009 Q-1
Sub Atmosphere Control Manual

2. Is the candle stowage area conspicuously marked so that special action may be taken in the event of fire within the compartment?

REF: NSTM 550
OPNAVINST 5100.19F

D. TRASH COMPACTOR

1. Is the material condition satisfactory? (No latches missing, excessively worn, or broken, barrel not misaligned, interlocks operational)

REF: MIP 5934/988 688 Class
MIP 5934/926 726 Class
MIP 5934/974 21 & 774 Class

2. Are the trash compactor operating instructions posted?

REF: OPNAVINST 5100.19F

3. Are gloves, goggles, and apron available for compacting operations?

REF: OPNAVINST 5100.19F

E. TRASH DISPOSAL UNIT

1. Are operating instructions posted?

REF: OPNAVINST 5100.19F

F. PERSONNEL HAZARDS - EYE PROTECTION

1. Are transparent, non-shatter eye shields mounted over the wheels of the bench grinder?

REF: OPNAVINST 5100.19F

2. Is the point of operation guard (chip shield) installed on the drill press and lathe?

REF: OPNAVINST 5100.19F

G. PERSONNEL HAZARDS - FREON HAZARD

1. Are personnel who perform maintenance on air conditioning and refrigeration equipment certified on handling, recovery and recycling of ODS?

REF: OPNAVINST 5090.1D

H. PERSONNEL HAZARDS - NITROGEN CHARGING EQUIPMENT

1. Is nitrogen charging equipment in good repair and without evidence of contamination (open ending piping bagged, gages in calibration, relief valve set)?

REF: NSTM 550
MIL-STD-1330C

I. PERSONNEL HAZARDS - NON-SKID STRIPS/SAFETY TAPE

1. Are non-skid strips and striped yellow and black tape on deck in front of lathe, drill press and bench grinder? For Submarine engine room work, is a temporary boundary sign available using a rope "Machine Operations in Progress-Eye Hazard" (Diamond tread does not satisfy requirement)

REF: OPNAVINST 5100.19F

J. PERSONNEL HAZARDS - SAFETY PRECAUTION SIGNS

1. Are safety precaution and eye hazard signs posted for the lathe, bench grinder, and drill press?

REF: OPNAVINST 5100.19F

K. TESTING - OXYGEN GENERATOR CELL REMOVAL RIG

1. Is the cell lifting rig weight tested and in periodicity (48 months)? (N/A for LPE)

REF: JFMM Volume V Part 1 Paragraph 7

L. TESTING - LIFTING GEAR

1. Are the periscope lifting eyes and support bars weight tested? 48M-1 (N/A for 774 Class)

REF: NAVSEA Drawing 4398614
JFMM Volume V Part 1 Paragraph 7

M. HATCHES AND DOORS

1. 1. Are the maneuvering doors and gaskets in good condition? (clean of dirt, debris, and paint)
2. Are the gaskets on flood control doors in good condition? Do the flood control doors lock when their latches are released? (N/A for SSBN 726 Class as no spring tensioner installed)

REF: MIP 1671/MRC S-2 INSPECT MANEUVERING DOORS

REF: MIP 1671/ MRC 36M-4 INSPECT FLOOD CONTROL DOORS

N. PERSONNEL HAZARDS - GUARDS AND BARRIERS

1. Are guards and/or barriers enclosing rotating machinery, shafts, or moving parts which could cause death or severe injury if removed painted red?

REF: OPNAVINST 5100.19 series D1.3.a

2. Are periscope finger guards installed, and of the correct material?
(N/A for 774 Class)

REF: NAVSEA DWG 4674891 (726 Class)
NAVSEA DWG 6640219 Type 18 (688 Class)
NAVSEA DWG 5489360 Type 2D and 2F (688 Class)

O. CHAIRS AND BENCHES

1. Are MRC requirements for Pedestal Mounted Chairs and Track Mounted Benches being completed within periodicity? (missing hardware, cracked welds, clean area and sliding surfaces)

REF: MIP 6100/001 MRC 36M-1