AFLOAT
Main Propulsion (Steam) Checklist

UPDATED April 2025

SAFETY REVIEW ITEMS - Main Propulsion (Steam)

Pumps and Auxiliary Machinery

ARE AUXILIARY MACHINERY GOVERNORS, CONTROLS AND LINKAGES OPERATIVE AND IN SATISFACTORY CONDITION IAW CURRENT DIRECTIVES?

REF: NSTM 503-2.9

NSTM 502-4.3 & 4.4

Steam Turbines and Reduction Gears

ARE THE FLANGE SHIELDS OIL SOAKED?

REF: NSTM 505-7.9.4.5

ARE AHEAD AND ASTERN THROTTLES SECURED WITH A CHAIN AND LOCK WHEN THE TURNING GEAR OR SHAFT LOCK IS ENGAGED?

REF: NSTM 241-3.4.7.b

IS THERE A WARNING SIGN INDICATING THAT THE TURNING GEAR OR SHAFT LOCK IS ENGAGED?

REF: NSTM 241-3.4.7.b

Main Shafting/Spring Bearings

ARE THERMOMETERS INSTALLED AND CALIBRATED?

REF: NSTM 244-2.4

GSO 244 B

ARE BEARING SUMP DRAINS PROPERLY LOCKED?

REF: EDORM 3540.3 Series 4407

ARE BULKHEAD SEALS IN GOOD MECHANICAL CONDITION, SELF ALIGNING AND CAPABLE OF BEING ACTIVATED FROM EITHER SIDE OF THE BULKHEAD AND NOT IN CONTACT WITH THE SHAFT WHEN NOT IN USE?

REF: NSTM 244-6.6

GSO 244 B

Main Shaft Seal

ARE COOLING WATER PIPING/VALVES IN GOOD OVERALL CONDITIONS (NO SIGNS OF LEAKAGE, DENTS, GOUGES, CORROSION, ETC.)?

REF: NSTM 244-6.4 (FIGURE 244-6-12)

GSO 244 B

NSTM 505

ARE GAUGES INSTALLED AND CALIBRATED?

REF: GSO 504 E, F, G,

NSTM 504-3.7

PMS MIP 9802 Series

IS PHYSICAL SECURITY IN PLACE FOR EQUIPMENT REQUIRING LOCKS OR LOCKING DEVICE?

REF: EDORM 3540.3 Series 4407

IS THERE A MEANS FOR INFLATING SEAL?

REF: PMS MIP 2400 Series

NSTM 244-6.3

GSO 244 B

IS PMS BEING ACCOMPLISHED ON CO2/N2 BOTTLE FOR SEAL?

REF: PMS MIP 2400 Series

IS THERE A SHAFT SEAL COOLING WATER SYSTEM OPERATING INSTRUCTION AND CASUALTY CONTROL PROCEDURES AVAILABLE FOR THE WATCH STANDERS?

REF: NSTM 079-46.1

EOP/EOCC

IS EMERGENCY PACKING / INFLATION HOSES STOWED IN VICINITY OF STERN TUBE SEAL?

REF: NSTM 244-6.5

GSO 244 B

Lube Oil System

ARE LUBE OIL STRAINER SHIELDS INSTALLED AND IN GOOD CONDITION?

REF: NSTM 505-7.9

NAVSEA 0948-LP-102-2010 GSO 505 E

Ship Service Turbo Generators

ARE LUBE OIL STRAINER SHIELDS PROPERLY INSTALLED AND IN SATISFACTORY CONDITION?

REF: NSTM 505-7.9

ARE PROPER FLANGE SHIELDS INSTALLED AND IN SATISFACTORY CONDITION?

REF: NSTM 505-7.9

ARE THE LUBE OIL FLANGE SHIELDS SOAKED WITH OIL?

REF: NSTM 505-7.9

ARE AIR COOLER TELL TALE DRAINS VISIBLE AND PROPERLY INSTALLED?

REF: NSTM 231-2.7

GSO 534 C

Combined Exhaust Relief

ARE COMBINED EXHAUST RELIEF VALVES INSTALLED PROPERLY?

REF: NSTM 505-9.17

PMS MIP 5000 Series

ARE OPERATING AND WARNING PLATES INSTALLED?

REF: NSTM 505-9.16

Signs and Placards

DO SUPERHEATED THERMOMETERS HAVE WARNING SIGNS INSTALLED AT SENSING POINT?

REF: GSO 602 H

NSTM 221-3.6

ARE OPERATION/SAFETY PLACARDS POSTED AT EACH SAMPLE COOLER/TREATMENT TANK?

REF: NSTM 220-27.12

IS FINE WIRE MESH SCREEN INSTALLED IN CHEMICAL INJECTION TANK FUNNEL?

REF: NAVSHIPS DRWG 803-1385735 REV G Sheet 2 of 3.

GSO 534 B

NAVSHIPS DWG 804-6397312

IS THERE A BOILER INSPECTION DEVICE AVAILABLE AND OPERATIONAL?

REF: NSTM 221-4.2

IS THERE ONE 27 LB PORTABLE DRY CHEMICAL (PKP) FIRE EXTINGUISHER MOUNTED NEAR THE BURNER FRONT OF THE BOILER?

REF: EOCC MCBF

GSO 555 D

IS THERE A SHOCK HAZARD WARNING SIGN POSTED AT THE AUXILIARY BOILER CIRCUIT CONTROL PANEL?

REF: NAVSHIPS DRWG RE-2699757

GSO 070 H

Bottom Blow System

DO BOILERS HAVE GUARDING VALVES FOR EACH BOILER?

REF: NAVSHIPS DRWG 804-841733 BOILER BLOW SYSTEM DRAWING

NSTM 220 FIGURE 220-22-8

ARE WARNING PLATES POSTED AT EACH VALVE, STATING: "WARNING- THIS VALVE NOT TO BE OPENED WHILE BURNERS ARE IN OPERATION"?

REF: NAVSHIPS DRWG 804-841733 Rev J BOILER BLOW SYSTEM DRAWING, Note 1

GSO 221 N

DOES BILGE GRAVITY DRAIN HOSE VALVE HAVE CAP INSTALLED, VENTED AND TETHERED TO THE VALVE?

REF: NAVSHIPS STD DWG 804-841733 Rev J BOILER BLOW SYSTEM Note 3

NSTM 220-22.23

ARE IDLE BOILERS UNDER PROPER LAY UP?

REF: NSTM 221-2.3

NSTM 220-30.28

Soot Blower System

IS SOOT BLOWER PIPING IN GOOD OVERALL CONDITION (NO SIGNS OF LEAKAGE, DENTS, GOUGES, CORROSION)?

REF: NSTM 221-3.3

ARE LAGGING ENDS SEALED ON FLANGED LINES?

REF: NSTM 635-2.6

NAVSHIPS DWG 804-841336

Boiler Gauge Glasses

IS NORMAL STEAM LEVEL INDICATED ON GAUGE GLASS?

REF: NSTM 221-3.4

GSO 221 K

ARE CHAINS INSTALLED ON GAUGE GLASS CUTOUTS?

REF: NSTM 221-3.4

ARE GLASS AND MICA IN GOOD CONDITION?

REF: NSTM 221-3.4

GSO 221 K

Deaerating Feed Tank

HAS VACUUM BREAKER BEEN TESTED?

REF: NSTM 255-7.2

PMS MIP 2550 Series

HAS DFT RELIEF VALVE BEEN PROPERLY TESTED?

REF: NSTM 255-7.2

PMS MIP 2550 Series

IS SYSTEM INSTALLED AND OPERABLE?

REF: NSTM 221-2.13

GSO 555 G

IS THE SYSTEM CONTROL VALVE OPERABLE FROM BOILER FRONT OR EOS?

REF: NSTM 221-2.13.4

GSO 555 G

IS THE TEST VALVE LOCKED OPEN BETWEEN THE CONTROL VALVE AND THE BOILER CASING?

REF: NSTM 221-2.13.4

GSO 555 G

ARE WARNING PLATES INSTALLED ON CONTROL VALVE?

REF: NSTM 221-2.13.4

GSO 555 G

Drip Pans and Sliding Feet

ARE THERE DRIP PANS UNDER BURNER MANIFOLDS AND CONNECTIONS?

REF: GSO 541 E

NSTM 221-2.15

ARE SLIDING FEET LUBRICATED?

REF: NSTM 221-2.15

PMS MIP 2210 Series

DO SLIDING FEET APPEAR TO BE MOVING?

REF: NSTM 221-2.15

CAN SLIDING FEET BE LUBRICATED FROM OUTSIDE THE AIR CASING?

REF: NSTM 221-2.15

Torch Pot

ARE TORCH POTS SECURED TO STRUCTURAL MEMBERS?

REF: NSTM 541-4.4

ARE TORCH POTS DRAINED WHEN SPACES ARE IN A COLD IRON STATUS?

REF: NSTM 221-4.4

Safety Valves

IS SAFETY VALVE HAND EASING GEAR INSTALLED AND OPERABLE FROM FIRING AISLE?

REF: NSTM 221-3.2

ARE SAFETY VALVES PROPERLY PRESERVED?

REF: NSTM 221-3.2

Smokestacks and Uptakes

ARE SMOKESTACK COVERS USED ON IDLE BOILERS?

REF: NSTM 221-2.13

ARE UPTAKE SPACES IN SATISFACTORY CONDITION (NO FOD, RUST, RAGS, TOOLS MISSING BOLTS / SCREWS ON FOD SCREEN)?

REF: NSTM 555

NSTM 221-2.13

ARE BOILER PERISCOPES OPERATIVE?

REF: NSTM 221-4.13

Other Equipment Checks

ARE BOILER STOP VALVES WIRED AND TAGGED SHUT ON AN OPEN BOILER?

REF: NSTM 221-2.2

Fuel Oil Quick Closing Valves

ARE COVERS INSTALLED OVER THE EXPOSED CLOSING MECHANISM?

REF: NSTM 505-12.1

GSO 505 B

Burner Barrels and Sprayer Plates

ARE BURNER BARRELS STOWED PROPERLY?

REF: NSTM 221-3.1

Fuel Oil Strainers

DO STRAINERS DRAIN TO CONTAMINATED DRAIN TANK?

REF: NSTM 541

GSO 541 E

IS A DIFFERENTIAL PRESSURE GAUGE PROVIDED AND CALIBRATED?

REF: GSO 541 E

NSTM 541-9.12.4

Hearing Conservation

ARE NOISE HAZARD SIGNS POSTED IAW THE INDUSTRIAL HYGIENE SURVEY?

REF: OPNAVINST 5100.19 Series B-4

ARE HEARING PROTECTION DEVICES AVAILABLE FOR PERSONNEL WORKING IN OR ENTERING DESIGNATED HAZARDOUS NOISE AREA OR UTILIZING HAZARDOUS TOOLS OR EQUIPMENT?

REF: OPNAVINST 5100.19 Series B-4

ARE PERSONNEL WEARING APPROPRIATE HEARING PROTECTIVE DEVICES?

REF: OPNAVINST 5100.19 Series B-4

Heat Stress

ARE HEAT STRESS THERMOMETERS HUNG WITH A NON-HEAT CONDUCTING MATERIAL SUCH AS PLASTIC TIE-WRAP OR STRING (NEVER HUNG WITH METAL WIRE) AND POSITIONED TO MINIMIZE THE INFLUENCE OF ANY ADJACENT OR LOCAL HEAT OR COLD SOURCE?

REF: OPNAVINST 5100.19 Series B-2

ARE THERMOMETERS VALIDATED BY ALIGNING THE ETCH MARK WITH THE FREEZING POINT (32 DEGREES FAHRENHEIT)?

REF: OPNAVINST 3120.32 Series B-2

Sight Conservation

ARE PROPER EYE/FACE WASH UNITS AVAILABLE WHERE REQUIRED AS IDENTIFIED IN THE BASELINE AND/OR RECENT INDUSTRIAL HYGIENE SURVEY?

REF: OPNAVINST 5100.19 Series B-5

ARE REQUIRED EYE WASH STATION LOCATION SIGNS POSTED?

REF: OPNAVINST 5100.19 Series B-5

ARE POTABLE WATER SUPPLY VALVES LOCKED OPEN WITH A METAL, TAMPER-PROOF LANYARD AND MARKED "W" OR "CIRCLE "W" FITTING?

REF: OPNAVINST 5100.19 Series B-5

Deck Plates and Grating

ARE DECK PLATES FIRMLY FASTENED WITH 1.25 FASTENERS PER SQUARE INCH OF PLATE BUT NO LESS THAN TWO AND INSTALLED ON DIAGONALLY OPPOSITE SIDES?

REF: NAVSEA DWG 803-1340709, Note 1

GSO 622 C & D

ARE ACCESS LADDERS SECURELY FIXED IN PLACE?

REF: NAVSEA DWG 803-1340709, Note 1

GSO 622 C & D

ARE DECK PLATES AND LADDERS FABRICATED OF PROPER MATERIAL (ALUMINUM OR CRES STEEL 304)?

REF: GSO 622 C & D

NAVSEA STD DWG 803-1340709

ARE ALL BILGE DRAINAGE SUCTION STRAINERS INSTALLED?

REF: NSTM 505-10.7

Fasteners

ARE THREADED FASTENERS, WHEN INSTALLED AND TIGHTENED PROTRUDE A DISTANCE OF AT LEAST ONE (1) THREAD BEYOND THE TOP OF THE NUT OR PLASTIC INSERT?

REF: GSO 075 B

NSTM 075-7.5

ARE THE NUMBER OF THREADS PROTRUDING BEYOND THE TOP OF THE NUT OR PLASTIC INSERT SHOULD NOT EXCEED FIVE (5) THREADS, IN NO CASE SHALL THE PROTRUSION EXCEED TEN (10) THREADS IAW NSTM 075?

REF: GSO 075 B

NSTM 075-7.5

ARE FERROUS (CARBON STEEL) FASTENERS PRESENT IN SEAWATER OR IN OTHER SYSTEMS (FRESH WATER OR FEED) WHERE NON-FERROUS PIPING IS INSTALLED?

REF: NSTM 075-3.3

Instructions and Safety Precautions

ARE REQUIRED WARNING, CAUTION, OPERATING, AND INSTRUCTION PLATES AND CHARTS POSTED TO MINIMIZE THE POSSIBILITY OF INJURY TO PERSONNEL OR DAMAGE MACHINERY, EQUIPMENT OR SYSTEMS DUE TO FAULTY OPERATION RESULTING FROM THE LACK OF POSTED INSTRUCTIONS OR WHEREVER SPECIAL SAFETY PRECAUTIONS MUST BE EXERCISED?

REF: NSTM 090-2.4

GSO 602 H

NAVSHIPS DWG 805-1640412

ARE IDENTIFICATION PLATES INDICATING MAXIMUM ALLOWABLE LOADS OR TEST DATA INSTALLED BY LIFTING PADS OVER HEAVY EQUIPMENT?

REF: NAVSHIPS DRWG S2803-980209

GSO 602 G

ARE CHAIN FALLS OR MONORAIL HOISTS WEIGHT TESTED AND TEST DATA TAGS ATTACHED TO EQUIPMENT?

REF: PMS MIP 6645 Series

IS THE ENGINEERING OPERATIONAL SEQUENCE SYSTEM (EOSS) IN USE?

REF: EDORM 3540.3 Series

ARE CURRENT "TAG OUT" PROCEDURES IN USE?

REF: OPNAVINST 3120.32 Series 630.17

NAVSEA S0400-AD-URM-010/TUM (Tag Out User’s Manual)

Hazard Materials

ARE TOXIC OR HIGHLY FLAMMABLE MATERIALS (FLASH POINT 200 DEGREES AND BELOW) STOWED IN MACHINERY SPACES?

REF: NSTM 670-17.3

ARE ALL HAZARDOUS MATERIAL CONTAINERS CLEARLY LABELED WITH MATERIAL NAME, MANUFACTURES NAME AND ADDRESS, STOCK NUMBER, HCC AND THE NATURE OF THE HAZARD PRESENTED BY THE HM INCLUDING THE TARGET ORGAN?

REF: NSTM 670-3.2

ARE HAZARDOUS MATERIALS PROPERLY STOWED?

REF: NSTM 670-3

System and Equipment Monitoring

ARE GAGES AND INDICATORS PROPERLY MOUNTED?

REF: GSO 504 B, D, E, G, & K

NSTM 504-3.5

ARE LIQUID COLUMN SIGHT GLASS PROTECTIVE GUARDS PROPERLY INSTALLED?

REF: NAVSHIPS DRWG 803-2145532

GSO 504 K

ARE CRITICAL AND NON-CRITICAL GAGES AND INDICATORS CALIBRATED AND IN GOOD CONDITION?

REF: PMS MIP 9802 Series

SHIP CRL GSO 504 Q

NSTM 504-3.7

Pumps and Auxiliary Machinery

ARE MACHINERY FOUNDATIONS IN SATISFACTORY CONDITION, FREE OF CRACKS AND BASE METAL DETERIORATION FROM CORROSION AND MECHANICAL JOINTS TIGHTENED?

REF: GSO 100 F

PMS MIP 6300/001 Series

ARE COUPLING GUARDS INSTALLED ON ROTATING MACHINERY?

REF: GSO 070 H

OPNAVINST 5100.19 Series C-1 & C-13

ARE COUPLING/BELT GUARDS PAINTED RED FOR ROTATING MACHINERY?

REF: OPNAVINST 5100.19 Series C-1 & C-13

ARE EQUIPMENT OPERATING INSTRUCTIONS AND SAFETY PRECAUTIONS POSTED?

REF: NSTM 090-2.4

GSO 602 H

NAVSHIPS DWG 804-1640412

Flexible Hoses

ARE FLEXIBLE HOSE ASSEMBLIES PROPERLY INSTALLED?

REF: PMS MIP 5000/009 Series

NAVSEA S6430-AE-TED-010 VOL.1 (SECTION 9)

ARE FLEXIBLE HOSE ASSEMBLIES FREE OF TWIST BETWEEN FITTINGS AND PROPERLY SUPPORTED AGAINST RESILIENTLY MOUNTED EQUIPMENT TO PREVENT CHAFING?

REF: NAVSEA S6430-AE-TED-010 VOL.1 (SECTION 9)

PMS MIP 5000/009 Series

ARE FLEXIBLE HOSE ASSEMBLIES FREE OF EXCESSIVE SAG OR STRESS?

REF: PMS MIP 5000/009 Series

NAVSEA S6430-AE-TED-010 VOL.1 (SECTION 9)

ARE FLEXIBLE HOSES PROPERLY IDENTIFIED WITH A NONCORROSIVE METAL TAG?

REF: PMS MIP 5000/009 Series

NAVSEA S6430-AE-TED-010 VOL.1 (SECTIONS 8.5 AND 9)

ARE FLEXIBLE HOSES PAINTED (A FEW SPOTS INADVERTENTLY SPLASHED ON THE HOSE IS ACCEPTABLE AS LONG AS PAINTED AREA IS 10% OR LESS THAN THE HOSE SURFACE AREA)?

REF: NAVSEA S6430-AE-TED-010 VOL.1 (SECTION 9.J, 10.J)

PMS MIP 5000/009 Series

NSTM 631 VOL. 3 8.22

ARE FLEXIBLE HOSES EXCESSIVELY SOFT?

REF: NAVSEA S6430-AE-TED-010 VOL.1 (SECTION 10. O)

PMS MIP 5000/009 Series

Rubber Expansion Joints

ARE RUBBER EXPANSION JOINTS PROPERLY INSTALLED AND ALIGNED?

REF: NSTM 505-3.3 (table 505-3-1)

ARE RUBBER EXPANSION JOINTS FREE OF CRACKS AND CUTS?

REF: NSTM 505-3.3

ARE RUBBER EXPANSION JOINTS FREE OF PAINT?

REF: NSTM 631 VOL 1 8.17

Escape Trunks

ARE THERE OBSTRUCTIONS AT THE ESCAPE TRUNKS?

REF: OPNAVINST 5100.19 Series C-1

ARE LADDER RUNGS CONTINUOUS AROUND TWO BULKHEADS?

REF: GSO 622 C

NAVSEA DWG 804-5184093

DOES ESCAPE TRUNK BALANCE JOINER DOOR HAVE TWO CLOSING SPEEDS (DOOR SHOULD TRAVEL THROUGH INITIAL CLOSING ARC AT A REASONABLY FAST RATE AND SLOW DURING FINAL 8" to 10" OF CLOSING SO DOOR DOES NOT SLAM. THE NOMINAL SPEED RANGE IS 6 TO 8 SECONDS, HOWEVER DOOR CLOSING SPEED SHALL NOT BE LESS THAN 5 SECONDS AND NO GREATER THAN 10 SECONDS)?

REF: NAVSEA DWG 804-5184129 PMS MIP 6241/002 Series GSO 624 J

ARE ESCAPE TRUNKS WELL LIT AND HAVE EMERGENCY LIGHTING?

REF: NSTM 330-1.6

GSO 332 E & G

ARE LABEL PLATES INSTALLED ON TOP OF ESCAPE SCUTTLES INSCRIBED WITH 1-INCH RED LETTERS THAT STATE "ESCAPE SCUTTLE DO NOT OBSTRUCT OR BLOCK"?

REF: NAVSHIPS DRWG 805-1640412

GSO 602 J

Lagging/insulation

IS LAGGING/INSULATION ADEQUATE?

REF: GSO 508 B

NSTM 635 (SECTIONS 2 AND 3)

IS LAGGING/INSULATION TORN OR MISSING (SEAM INTACT AND TAPED / PIN / STUDS SECURE)?

REF: NSTM 635-2.9

IS LAGGING/INSULATION OIL / WATER SOAKED?

REF: NSTM 635-2.9

Reduction Gear Security

ARE MEDIUM OR HIGH SECURITY PADLOCKS INSTALLED (ISEA ADVISORY NUMBER 006-01 VERIFY S&G MODEL 833 HIGH SECURITY LOCKS HAVE BEEN CHANGED OUT WITH ABLOY MODEL PL655 OR PL656)?

REF: ISEA ADVISORY NR 006-01

NSTM 241-4

ARE ALL OTHER ACCESSES PROTECTED FROM UNAUTHORIZED ENTRY?

REF: NSTM 241-4.2

DO VENT FOG PRECIPITATORS APPEAR TO BE IN SATISFACTORY CONDITION?

REF: NSTM 241-2.3

NSTM 262-3.1

NAVSEA STD DWG 803-2145504

GSO 262 C

DO VENT FOG PRECIPITATORS HAVE A WARNING PLATE POSTED INSCRIBED WITH "WARNING HIGH VOLTAGE"?

REF: GSO 262 C

NSTM 241-2.3

NSTM 262-3.1

NAVSEA STD DWG 803-2145504

ARE INSTALLED REDUCTION GEAR DEHUMIDIFIERS MAINTAINING AIR IN THE MRG CASING AT LESS THAN 35 PERCENT RELATIVE HUMIDITY?

REF: EOSS

NSTM 241-3.5

Lube Oil System

ARE THERE LOCKING DEVICES FOR ALL MAIN LUBE OIL PUMPS SUCTION AND DISCHARGE VALVES TO PREVENT SHUTTING?

REF: EDORM 3540.3 Series 4407

EOSS

ARE PURIFIER DRAINS PIPED TO CONTAMINATED OIL TANK?

REF: NSTM 541-4.7

GSO 262 C

GSO 534 C

DOES THE LUBE OIL STORAGE AND SETTLING TANKS HAVE OVERFLOW AND DRAIN CONNECTIONS LEADING TO THE OILY WATER DRAIN OR WASTE COLLECTING SYSTEM?

REF: NSTM 541-4.7

GSO 262 C

ARE STRAINERS PROVIDED WITH PROTECTIVE COVERS?

REF: NSTM 079-46.5

NSTM 505-10.3

GSO 505 E

ARE STRAINERS PROVIDED WITH VENT/DRAIN VALVES?

REF: NSTM 505-10.3

ARE STRAINERS PROVIDED WITH DRIP PANS?

REF: GSO 262 C

NSTM 505-10.3

Oil Lab

IS NAVI FLASH / APPROVED FLASH POINT TESTER IN WORKING ORDER AND CALIBRATED?

REF: NSTM 262-5.1

Oil Piping Flange Shields

ARE LUBE OIL AND FUEL OIL PIPING FLANGE SHIELDS OF CORRECT MATERIAL?

REF: NSTM 505-7.9, FIG 505-7-15

GSO 505 E

NAVSEA DRAWING 803-2145518

GSO 502 B

NSTM 233-7.9

ARE FLANGE SHIELDS PROPERLY INSTALLED?

REF: GSO 505 E

NSTM 505-7.9

ARE ANY FLANGE SHIELDS MISSING?

REF: NSTM 505-7.9

GSO 505 E

Valves and Valve Operators

ARE REMOTE-OPERATED VALVES OPERATIONAL AND PROPERLY ATTACHED?

REF: NSTM 505-1.8

GSO 505 E

ARE VALVE HANDWHEELS PROPERLY SECURED AND LABELED?

REF: GSO 507 F

NSTM 505-7.8

NAVSEA S0400-AD-URM-010/TUM (TAG OUT USERS MANUAL)

ARE HANDWHEELS MADE OF PROPER MATERIALS?

REF: NAVSHIPS DWG 803-1385620

GSO 505 C

ARE VALVE HANDWHEELS PROPERLY COLOR CODED?

REF: NSTM 505-7.8

Sea Chest Blow Out

ARE WARNING PLATES STATING "DO NOT PERMIT STEAM OR AIR PRESSURE TO EXCEED 35 POUNDS WHEN BLOWING-OUT SEA CHEST") AND OPERATING INSTRUCTIONS INSTALLED BETWEEN THE NEEDLE VALVE AND HOSE VALVE FOR THE SEA CHEST?

REF: GSO 253 D

PMS MIP 1631 Series

IS THERE A RELIEF VALVE SET AT 40 PSI AND A CONNECTION FOR BLEEDING STEAM/AIR PRESSURE ON THE SEA CHEST BLOW OUT SYSTEM?

REF: NSTM 505-10.3

GSO 253 D

IS THERE A PRESSURE GAGE INSTALLED IN THE STEAM OR AIR PRESSURE SUPPLY LINE FOR THE SEA CHEST BLOW OUT?

REF: NSTM 505-10.3

GSO 253 D

Piping Systems

ARE PIPING SYSTEMS ADEQUATELY LABELED?

REF: NSTM 505-7.8 & Table 505-7-1

ARE PIPING SYSTEMS PROPERLY COLOR CODED?

REF: NSTM 505-7.8 & Table 505-7

ARE PIPING SUPPORT DEVICES PROPERLY MAINTAINED?

REF: GSO 505 C

NAVSHIPS DWG 804-1385781

NSTM 505-7.5

ARE FLAMMABLE SYSTEMS LEAK TIGHT (NO VISIBLE EVIDENCE OF LEAK)?

REF: NSTM 505-8.3

ARE NON-FLAMMABLE SYSTEMS LEAK TIGHT?

REF: NSTM 505-8.3

ARE WARNING PLATES INSCRIBED "WARNING ENSURE THAT THE ISOLATION VALVES ON EACH SIDE OF THE PRESSURE REGULATOR ARE CLOSED BEFORE OPENING THE BY-PASS VALVE", INSTALLED ON REDUCER BYPASS VALVES?

REF: NSTM 505-9.18

GSO 505 B

Relief Valves

DO RELIEF VALVES APPEAR TO BE IN GOOD WORKING ORDER (FREE OF BROKEN SPRINGS, LEAKING, BENT STEMS OR CORRODED)?

REF: NSTM 505-9.18

ARE RELIEF VALVES PROPERLY LABELED?

REF: PMS 5000 Series

GSO 505 E

ARE RELIEF VALVES EQUIPPED WITH A TAIL PIPE THAT DOES NOT STRESS THE VALVE BODY AND DISCHARGES WHERE IT DOES NOT CREATE A HAZARD TO PERSONNEL OR EQUIPMENT?

REF: NSTM 505-9.17

GSO 505 E

ARE METAL TAGS PROVIDED TO INDICATE SHIP NAME AND HULL NUMBER, DATE OF LIFT TEST, LIFTING PRESSURE, VALVE NUMBER OR IDENTIFICATION?

REF: GSO 505 H

NSTM 505-9.17

Eductors and Bilge Drainage

ARE SUCTION STRAINERS INSTALLED AND IN GOOD OVERALL CONDITION (NO SIGNS OF DENTS, GOUGES, CORROSION, BLOCKAGES)?

REF: GSO 529 J

NSTM 505-10.7

IS THERE A MINIMUM OF ONE SPACE SUCTION VALVE WHICH IS OPERABLE FROM THE DAMAGE CONTROL DECK?

REF: MILSPEC E-24127

GSO 529 J

ARE EDUCTORS AND BILGE DRAINAGE SYSTEM OPERATING INSTRUCTIONS POSTED?

REF: NSTM 505-10.7

GSO 529 H

IS THE OIL POLLUTION ACT POSTED AT THE OVERBOARD DISCHARGE VALVES, DECK RISERS AND PUMPS CAPABLE OF DISCHARGING OILY WASTE?

REF: GSO 593 D

NSTM 593-3.7

ARE ACTUATING PRESSURE AND SUCTION PRESSURE GAGES INSTALLED AND PRESSURIZED?

REF: NSTM 505 figure 505-10.2

GSO 529 H

MIP 5291 Series

ARE EDUCTOR SUCTION CUT-OUT VALVES PROVIDED WITH THE WARNING SIGN STATING, "DO NOT OPEN UNTIL VACUUM IS INDICATED ON GAGE"?

REF: MILSPEC E-24127

GSO 529 H

ARE EDUCTOR FIREMAIN ACTUATING CUT-OUT VALVES PROVIDED WITH THE WARNING SIGN STATING, "DO NOT OPEN UNTIL OVERBOARD DISCHARGE VALVE IS OPEN"?

REF: MILSPEC E-24127

GSO 529 H

ARE BILGES CONTAMINATED WITH OIL, FUEL OR TRASH?

REF: EDORM 3540.3 Series 4502

Oil Lab

ARE REQUIRED NUMBER OF OVERBOARD OIL SPILL CLEAN UP KITS ON BOARD?

REF: AEL 2-550024006

ARE MARK II KITS FULLY STOCKED AND ACCESSIBLE FOR QUICK USE?

REF: NSTM 593-3.6

DOES THE SHIP HAVE AN OIL SPILL CONTINGENCY PLAN THAT HAS BEEN TAILORED TO THE SHIP?

REF: OPNAVINST 5100.19 Series B-3

OPNAVINST M 5090.1 Series chapter 35, para 35-3.15.h

ARE OIL SPILL KITS INSPECTED MONTHLY AND REPLENISHED AS REQUIRED?

REF: OPNAVINST M 5090.1 Series Ch. 35, para 35-3.15

OPNAVINST 5100.19 Series B-3

ARE PORTABLE ELECTRICAL LABORATORY EQUIPMENT TESTED FOR ELECTRICAL SAFETY IN ACCORDANCE WITH PMS?

REF: PMS MIP 3000/001 Series

IS AN APPROVED CORROSIVE LOCKER, < 30 GAL, AVAILABLE TO STORE ACID IN APPROPRIATE CONTAINERS?

REF: NSTM 670-13.3

NSTM 593 Appendix A and B

NSTM 220-26

HAVE CHEMICALS EXCEEDED THEIR SHELF LIFE?

REF: NSTM 220-26

ARE MERCURIC NITRATE REAGENTS DISPOSED OF PROPERLY?

REF: NSTM 670-13.8 & 37.8

OPNAVINST 5100.19 Series APPENDIX B-3-B

ORM/TCRM

IS ORM APPLIED NOT ONLY TO OPERATIONAL MISSIONS, BUT AT THE DECK PLATE LEVEL FOR DAY TO DAY WORK UNIT OPERATIONS AS WELL?

REF: OPNAVINST 5100.19 Series

OPNAVINST 3500.39 Series