Afloat Auxiliary Checklist

UPDATED October 2025

SAFETY REVIEW ITEMS - Auxiliary

Hot Water System

Are domestic hot water heater thermostats set to the correct temperature and operating properly IAW NSTM 533? Are hot water heater safety devices (shut down) in good working order IAW GSO 532?

REF:

GSO 532 D

NSTM 533-2.3

Shore Steam Connection

Are shore steam connections provided with guards/insulation IAW NSTM 635? Is strainer installed with a pressure gauge at deck connection IAW NSTM 505? Is a bleed off line and warning sign "bleed pressure before disconnecting hose" provided IAW NSTM 505?

REF:

NSTM 505-2.2

GSO 253 D

NSTM 635-2.6

Refrigeration

Is the tracking of refrigerant usage/procurement accurate and effective IAW NSTM 516? Are accidental venting forms being used to document refrigerant loss? Are the logs signed by the CHIEF ENGINEER IAW EDORM?

REF:

NSTM 516-8.3

PMS MIP 5161 Series

PMS MIP 5140 Series

EDORM Section 2106

Is parasense refrigerant leak monitoring system operational IAW PMS MIP 4361 series?

REF:

PMS MIP 4361 Series

Are pressurized bottles stored IAW NSTM 670 Volume 2? Is each individual cylinder grade B shock mounted? That is, each cylinder shall be securely fastened in the vertical position (valve end up) and horizontally to prevent side to side movement (e.G., Use metal collars, kevlar straps, etc.). Chains may be used for cylinders in portable/in use carts.

REF:

NSTM 670 Volume 2-32.3

GS0 671 C

NSTM 550-2.11

Potable Water

Are hoses used to take on potable water labeled "potable water only" every 10 feet IAW NSTM 533? Are potable water hoses and fittings stowed properly? Are potable water deck lockers vermin proof/locked, labeled "potable water hose", installed 18 inches above the deck with disinfecting instructions posted IAW NSTM 533?

REF:

NSTM 533-2.1

NSTM 505 TABLE 505-7-1

GSO 532 C

GSO 671

Diesel Engines

Are diesel engine crankcase covers in satisfactory condition (gaskets and seals) no signs of leaks to ensure fresh air into the crankcase is at a minimum IAW NSTM 233?

REF:

NSTM 233-13

Is there an air-break between the jacket water system expansion tank and the potable water system IAW GSO 532?

REF:

GSO 532 B

Is the jacket water / keep warm / space heater operational, when diesel engines are secured IAW EOSS?

REF:

EOSS

Engine Shutdown

Are remote operated shutdown devices labeled and properly guarded IAW GSO 502?

REF:

GSO 502 C

Are wire cables secured with the proper attachments (u-bolts) and are cables in proper condition IAW NSTM 613?

REF:

NSTM 613

NSTM 613-1 & FIG 613-1-5

Steering Charts and Diagrams

Are steering system operating charts and piping diagrams posted IAW GS0 561? Is an electrical wiring chart for the steering system posted IAW GSO 561? Is a lubrication chart for the steering system posted IAW NSTM 562?

REF:

NSTM 562-10.5.1

GSO 561 C

Are emergency steering procedures available in aft steering from EOP/EOCC?

REF: EOP/EOCC

Steering Gear

Are steel crushing blocks provided and in satisfactory material condition? Do copper blocks show evidence of being struck?

REF:

NSTM 562-4.2

Are ratchet wrenches available IAW NSTM 562?

REF:

NSTM 562-7.4

Is the steering hydraulic system free of leaks? Do the rams show excessive leaks? Rams should not have 1/2 pint or more of oil leaked in a 24-hour period IAW NSTM 562.

REF:

NSTM 562-10.1

Is there excessive pitting or corrosion on the ram surfaces IAW NSTM 562?

REF:

NSTM 562-10.11

Elevators

IS THERE COMMUNICATION BETWEEN ALL LEVELS IAW NSTM 772? ARE NON-SLIP TREADS OR DECK COVERING INSTALLED ON THE DECK IN MACHINERY ROOM IAW NSTM 634? ARE NON-SLIP TREADS OR DECK COVERING INSTALLED ON THE DECK IN MACHINERY ROOM IAW NSTM 634? IS PROTECTIVE CLOTHING AVAILABLE FOR SYNTHETIC HYDRAULIC FLUID IAW NSTM 670 V2? ARE THERE LEAKS IN THE HYDRAULIC SYSTEM IAW NSTM 556?

REF:

NSTM 634-2.1

NSTM 772-2.3COMNAVSURFOR

NSTM 670 V2-27-4

NSTM 556-8.9

Package Conveyor

ARE CONVEYOR DOORS AND CONTROLLERS LOCKED WHEN NOT IN USE IAW NSTM 572? DO ACCESS DOORS OPEN AT LEAST 90 DEGREES AND IS A LATCHING MECHANISM PROVIDED TO HOLD THE DOOR IN THE OPEN POSITION IAW NSTM 572? IS THE TWO MAN RULE POSTED AT EACH LOAD-UNLOAD LEVEL IAW NSTM 572? IS THERE COMMUNICATION BETWEEN EACH LEVEL IAW NSTM 572? ARE SAFETY LIMIT SWITCHES IN GOOD MATERIAL CONDITION AND OPERATING PROPERLY IAW NSTM 572?
ARE RUN-STOP AND EMERGENCY STOP PUSH BUTTONS IN PLACE IAW NSTM 572? IS SAFETY SHIELD IN PLACE AND PROPERLY INSTALLED AT EACH LOAD/UNLOAD STATION IAW NSTM 572?

REF:
NSTM 572 Appendix B and C
NSTM 572-2.3

(DDG 51 Class) IS THE VERTICAL PACKAGE CONVEYOR TAGGED OUT AND PLACED IN PERMANENT LAY-UP IAW COMNAVSURFOR MESSAGE 271629Z DEC 13?

Ref: COMNAVSURFOR MESSAGE 271629Z DEC 13

Food Service Areas

ARE ½ INCH OR MORE AIR GAPS PROVIDED IN DRAIN PIPING LEADING FROM STEAM TABLES, ICE-MAKING MACHINES, SALAD BARS, SCUTTLE-BUTTS, ETC. IAW NSTM 505?

REF:
NSTM 505-7.10

ARE DISHWASHING MACHINE THERMOMETERS CALIBRATED IAW SHIPS CRL?

REF:
SHIPS CRL

Steam Jacketed Kettles

IS STEAM AT INLET LESS THAN 45 PSI IAW NSTM 651? IS A PRESSURE GAUGE PROVIDED IAW GSO 651? IS A 18” PULL CHAIN ACTUATED SAFETY RELIEF VALVE PROPERLY MOUNTED AND OPERATIONAL ON THE STEAM OPERATED KETTLE IAW GSO 651? ARE THE SAFETY RELIEF-VALVE LEVERS EQUIPPED WITH AN 18-INCH CHAIN TO ALLOW ACTIVATION FROM A SAFE DISTANCE WITHOUT REACHING BETWEEN, OVER OR BEHIND HOT KETTLES IAW GSO 651? ARE RELIEF VALVES HYDROSTATICALLY TESTED IAW MIP 6511 SERIES? IS THE DISCHARGE PIPE FROM RELIEF VALVE OUTLET EXTENDED DOWN JUST INSIDE THE DECK COAMING, IAW GSO 505?

REF:
GSO 651 C
PMS MIP 6511 Series
GSO 505 E
NSTM 651-2.31

Laundry, General

IS THE TUMBLER DRYER PRIMARY LINT FILTER PROPERLY INSTALLED, FREE OF RIPS AND TEARS AND CLEANED EVERY TWO HOURS OF OPERATION IAW NSTM 655? IS A SECONDARY LINT FILTER PROVIDED BETWEEN LAUNDRY DRYERS AND SHIPS VENTILATION EXHAUST DUCTINGS? ARE THE FILTERS BEING CLEANED EVERY TWO HOURS OF OPERATION AND EIGHT HOURS RESPECTIVELY IAW NSTM 655? ARE CLOTHES DRYERS OPERATED WITHIN ACCEPTABLE TEMPERATURE LIMITS IAW NSTM 655? IS COAMING PROVIDED AROUND WASHER-EXTRACTORS IAW NSTM 655? IS NAVSEA 1995/93 PREVENTING LAUNDRY

FIRES(S/N 0118-LF981-660) POSTED IAW 5100.19 SERIES?

REF:
NSTM 655- 1.5, 2.5
GSO 655 B
OPNAVINST 5100.19 Series C-20

Switches and Interlocks

IS WASHER/EXTRACTOR ELECTRIC ACTIVATED DOOR INTERLOCK OPERATIONAL IAW PMS MIP 6554 SERIES?

REF: NSTM 655-2.4, PMS MIP 6554 Series

IS THERE AN EMERGENCY STOP BUTTON LOCATED ON THE FRONT OF THE MACHINE WITHIN AN ACCESSIBLE AREA AND IS IT OPERATIONAL SO THAT IS BRINGS THE MACHINE TO AN IMMEDIATE STOP WHEN ACTIVATED IAW NSTM 655?

REF: NSTM 655-2.4

Laundry Presses

ARE LAUNDRY PRESS TWO-HAND AIR ACTIVATED CONTROL VALVES OPERATIONAL IAW NSTM 655?

REF:
NSTM 655-2.6

IS THE FLEXIBLE HOSE FROM THE LAUNDRY PRESS HEAD VENTILATION HOOD TO THE EXHAUST DUCTWORK CONNECTED AND IN GOOD CONDITION (NOT TORN, TWISTED OR RIPPED) AND IS THE VENTILATION OPERATIONAL IAW NSTM 655?

REF:
NSTM 655-2.6

Deck Plates and Grating

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

REF:
GSO 622 C & D
NAVSEA DWG 803-1340709 note (1)

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 IAW GSO 602 AND NSTM 090?

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? ARE CHAIN HOISTS WEIGHT TESTED AND TAGGED IAW PMS MIP 6645 SERIES?

REF:

GSO 602 G

PMS MIP 6645 Series

ARE THE ENGINEERING APPROVED OPERATIONAL PROCEDURES IN USE (EOSS, SDOSS, AFOSS, BOSS, DOSS)? ARE THERE ANY VIOLATIONS FOUND?

REF:

EDORM 3540.3 Series

System and Equipment Monitoring

ARE LIQUID COLUMN SIGHT GLASS PROTECTIVE GUARDS PROPERLY INSTALLED IAW NAVSHIPS DRAWING NO. 803-2145532?

REF:

NAVSHIPS DRWG 803-2145532

GSO 504 K

ARE CRITICAL AND NON-CRITICAL GAGES AND DETROIT SWITCHES CALIBRATED IAW NSTM 504 AND SHIP'S CRL? ARE GAGES AND SWITCHES IN GOOD CONDITION (NOT CRACKED, BROKEN OR CORRODED)?

REF:

NSTM 504-3.7

PMS MIP 9802

SHIP CRL

GSO 504 Q

Pumps and Auxiliary Machinery

ARE MACHINERY FOUNDATIONS IN SATISFACTORY CONDITION, FREE OF CRACKS AND BASE METAL DETERIORATION FROM CORROSION AND MECHANICAL JOINTS TIGHTENED? ARE BILGES EXCESSIVELY CORRODED IAW PMS MIP 6300 SERIES?

REF:

GSO 100 F

PMS MIP 6300 Series

ARE COUPLING GUARDS INSTALLED ON ROTATING MACHINERY? ARE COUPLING GUARDS PAINTED RED IAW OPNAVINST 5100.19 SERIES?

REF:

OPNAVINST 5100.19 Series C-1 & C-13

GSO 070 H

Flexible Hoses

ARE FLEXIBLE HOSE ASSEMBLIES PROPERLY INSTALLED; FREE OF TWIST BETWEEN FITTINGS, PROPERLY SUPPORTED AGAINST RESILIENTLY MOUNTED EQUIPMENT TO PREVENT CHAFING, FREE OF EXCESSIVE SAG OR UNDUE STRESS IAW PMS MIP 5000 SERIES? ARE FLEXIBLE HOSES PROPERLY IDENTIFIED WITH A NONCORROSIVE METAL TAG? ARE FLEXIBLE HOSES INSTALLED WITH REMOVABLE LAGGING PADS IAW PMS MIP 5000 SERIES? DO FLEXIBLE HOSES HAVE MORE THAN 10% OF SURFACE AREA COVERED IN PAINT? REFERENCE MIP 5000 SERIES AND NSTM 631. ARE FLEXIBLE HOSES EXCESSIVELY SOFT?

REF:

NSTM 631 VOL.3 8.22

NAVSEA S6430-AE-TED-010 VOL.1 (SECTION 8.5, 9, 9.J, 10.J AND 10.O)

PMS MIP 5000 Series

Rubber Expansion Joints

ARE RUBBER EXPANSION JOINTS PROPERLY INSTALLED AND ALIGNED IAW NSTM 505? ARE RUBBER EXPANSION JOINTS IN SATISFACTORY CONDITION FREE OF CRACKS AND CUTS IAW NSTM 505? ARE RUBBER EXPANSION JOINTS FREE OF PAINT IAW NSTM 631?

REF:

NSTM 505-3.3

NSTM 631 VOL.3 8.22

Escape Trunks

ARE THERE OBSTRUCTIONS AT THE ESCAPE TRUNKS? ARE LADDER RUNGS CONTINUOUS AROUND TWO BULKHEADS? 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 IAW PMS 6241 SERIES. ARE ESCAPE TRUNKS WELL LIT AND HAVE EMERGENCY LIGHTING IAW GSO 332? ARE LABEL PLATES INSTALLED ON TOP OF ESCAPE SCUTTLES INSCRIBED WITH 1-INCH RED LETTERS THAT STATE "ESCAPE SCUTTLE DO NOT OBSTRUCT OR BLOCK" IAW GSO 602?

REF:

GSO 622 C

NAVSEA DWG 804-5184093 & 804-5184129

PMS MIP 6241 Series

GSO 624 J

GSO 322 E&G

GSO 602 J

OPNAVINST 5100.19 Series C-1

Lagging/insulation

IS LAGGING/INSULATION TORN, WORN OR MISSING? IS LAGGING/INSULATION OIL / WATER SOAKED?

REF:

NSTM 635-2.9

Flammable Liquid Piping Flange Shields

ARE LUBE OIL AND FUEL OIL PIPING SPRAY SHIELDS OF CORRECT MATERIAL? ARE SPRAY SHIELDS PROPERLY INSTALLED IAW NSTM 505? ARE ANY SPRAY SHIELDS MISSING?

REF:

NSTM 505-7.9

GSO 505 E

NAVSEA DRAWING 803-2145518

NSTM 233-7.9

NSTM 505-7.9 & FIG 505-7-15

GSO 502 B

Valves and Valve Operators

ARE REMOTE OPERATED VALVES OPERATIONAL AND PROPERLY ATTACHED IAW NSTM 505? ARE VALVE HAND WHEELS PROPERLY SECURED AND LABELED IAW NSTM 505? ARE HAND WHEELS MADE OF PROPER MATERIALS IAW NSTM 505? ARE VALVE HAND WHEELS PROPERLY COLOR CODED IAW NSTM 505?

REF:

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

NSTM 505-7.8

NSTM 505-1.8

Sea Chest Blow Out

ARE WARNING PLATES STATING "DO NOT PERMIT STEAM, WATER, 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 IAW GSO 253, 602 AND NSTM 090? IS THERE A RELIEF VALVE SET AT 40 PSI AND A CONNECTION FOR BLEEDING STEAM/AIR PRESSURE ON THE SEA CHEST BLOW OUT SYSTEM IAW NSTM 505 AND GSO 253? IS THERE A PRESSURE GAGE INSTALLED IN THE STEAM OR AIR PRESSURE SUPPLY LINE 'FOR THE SEA CHEST BLOW OUT IAW NSTM 505 AND GSO 253?

REF:

NSTM 505-10.3

GSO 602 H

NSTM 090-2.4

GSO 253 (d)(2)

PMS MIP 1631 Series

Piping Systems

ARE PIPING SYSTEMS ADEQUATELY LABELED IAW NSTM 505?

REF:

NSTM 505-7.8 & table 505-7-1

ARE PIPING SYSTEMS PROPERLY COLOR CODED IAW NSTM 505?

REF:

NSTM 505-7.8 table 505-7

ARE PIPING SUPPORT DEVICES PROPERLY MAINTAINED IAW NSTM 505 AND MIP 6200?

REF:

NAVSHIPS DWG 804-1385781

GSO 505

NSTM 505-7.5

PMS MIP 6200 Series

IS THERE EVIDENCE OF FLAMMABLE SYSTEM LEAKS IAW NSTM 505 AND MIP 6200?

REF:

NSTM 505-8.3

PMS MIP 6200 SERIES

ARE NON-FLAMMABLE SYSTEMS LEAK TIGHT IAW NSTM 505 AND MIP 6200?

REF:

NSTM 505-8.3

PMS MIP 6200 SERIES

Relief Valves

DO RELIEF VALVES APPEAR TO BE IN GOOD WORKING ORDER (FREE OF BROKEN SPRINGS, LEAKING, BENT STEMS OR CORROSION) IAW NSTM 505?

REF:

NSTM 505-9.17

ARE RELIEF VALVES EQUIPPED WITH DISCHARGE PIPING THAT DOES NOT STRESS THE VALVE BODY AND DISCHARGES WHERE IT DOES NOT CREATE A HAZARD TO PERSONNEL OR EQUIPMENT IAW NSTM 505?

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 AND NAME OF REPAIR

FACILITY IAW NSTM 505?

REF:

NSTM 505-9.17

GSO 505 H

Eductors and Bilge Drainage

ARE SUCTION STRAINERS INSTALLED AND IN OVERALL GOOD CONDITION WITH NO SIGNS OF DENTS, GOUGES, CORROSION, BLOCKAGES OR LARGE HOLES IAW NSTM 505 AND GSO 529?

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:

GSO 529 J

ARE ACTUATING PRESSURE AND SUCTION PRESSURE GAGES PRESSURIZED?

REF:

NSTM 505 figure 505-10.2

GSO 529 H

MIP 5290 Series

ARE BILGES CONTAMINATED WITH OIL, FUEL OR TRASH?

REF:

EDORM 3540.3