



ENGINEERING CHECKS

CV 63-67 CLASS

AUXILIARIES (AX) PRE-UNDERWAY PHASE

5811	ANCHOR WINDLASS (Inport Drop Test)		
Component/Sub-Component	Proposed Procedure	Accepted Procedure	
Inspect Tech Manual Support			
Inspect PMS Support			
Inspect posted operating/safety instructions and lubrication data			
Inspect fluid samples			
Inspect for proper HPU fluid levels			
Inspect for proper lubrication of mechanical components			
Inspect Gauge Calibration			
Inspect relief valve data is properly posted			
Inspect all flex hoses are properly tested and labeled			
Inspect mechanical brake operator linkages			
Inspect stroke control linkages			
Inspect flange shields			
Inspect for adequate nitrogen charge for windlass			
Inspect speed limiter			
Inspect for adequate LP air pressure for chain compressor			
Inspect capstan/wildcat brake assembly – mechanical brake components (worm gear end cap as required).			
Inspect electric brake			
Inspect filter differential indications			
Inspect HPU mechanical seal leakage			
Test Compensating Relief Valve is properly set			
Test – Conduct Inport Anchor Drop test			
- Inspect Servo/Replenishment Pressures during wildcat operation			
- Inspect Chain Compressor operation			
- Inspect Anchor drops from the hawsepipe			
- Test electric brake operation			

- Inspect reduction gear lubrication (gauges/sight flows/dipsticks)		
Test crossover valve operation		
Test wildcat/windlass solenoid switch		
Test Main Relief Valve lifts correctly		

5600 / 5611	STEERING (Inport System Verification)		
Component/Sub-Component	Proposed Procedure	Accepted Procedure	
Inspect Tech Manual and EOSS Support			
Inspect PMS Support			
Inspect operating/safety instructions and hydraulic system/electrical wiring diagrams are posted			
Inspect proper fluid levels			
Inspect hydraulic oil fill connections are properly labeled			
Inspect fluid samples			
Inspect Gauge Calibration			
Inspect rudder stock grounding straps			
Inspect filter indicators			
Inspect Servo/Replenishment Pressures are correct			
Inspect all flex hoses are properly tested/labeled			
Inspect flange shields are properly installed			
Test N2 accumulators are properly charged			
Test the trick wheel stops			
Inspect the crush block clearances			
Test the rudder follow up error (1 deg increments at 0 to 5 deg; 5 deg increments at 5 to 25 deg)			
Test ABT operation			
Test compensator relief valve settings			
Test main relief valve settings			
Test (inport) rudder swing checks			
Test (inport) blocking valve			
Test auxiliary emergency steering pump			
Test manual emergency steering system			
Inspect ram for scoring			
Test steering casualty alarm			
Test pump remote operation and transfer of controls to pilot house			
Test for static rudder split (pilot house in control)			
Test for indicator error (pilot house in control)			

A-002/105-11	EMERGENCY/SHIP'S SERVICE DIESEL GENERATORS	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Inspect Engine Sump Level		
Inspect Turbocharger Sump Level		
Inspect Start Air Lubricator Oil Level		
Inspect Governor Oil Level		
Inspect Lube Oil Sample		
Inspect J/W Expansion Tank Level		
Inspect "Do not open access..." and Expansion Tank warning "Poison..." are posted		
Inspect/test fuel valve trip		
Inspect Relief Valves		
Inspect Flange Shielding		
Inspect For Exhaust Leaks		
Inspect Filters, Strainers		
Inspect Governor and Fuel Linkage for Binding		
Inspect J/W Standby Pump		
Test Blow In Damper		
Test pre-lube system operation		
Test Jacket Water High Temp Alarm		
Test Lube Oil Filter High DP Alarm		
Test low lube oil pressure alarm		
Test Remote Shut Down		
Test Local Shut Down		
Test Barring Device Interlock		
Test Engine Blow Down		
Test Local Pneumatic start		
Test dead bus auto start		
Test Overspeed Trip		
Test 80% load for 15 minutes		
Inspect for fuel/lube oil leaks		
Inspect pyrometer operation		
Inspect manometer		
Inspect sea water cooling pump		
Test high water/generator bearing temp alarm		

5512 / 5513 / 5515	LOW and MEDIUM PRESSURE AIR SYSTEM	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Inspect Tech Manual and EOSS Support		
Inspect PMS Support		
Inspect Gauge Calibration		
Inspect operating/safety instructions are posted		
Inspect compressor oil level and oil samples		
Test compressor pressures and temperatures		
Test compressor capacity control system		
Inspect compressor belt condition		
Test compressor auto control and safety switches		
a. Operational control switches (115/120/125)		
b. Low oil pressure		
c. High discharge pressure		
d. High air and water temp		
Inspect all relief valve testing is within periodicity		
Inspect location of intake/vent supply		
Inspect receiver flask certification		
Test priority valve operation		
Inspect sea water cooling system		
Inspect 50/50 mixture of ethylene glycol		
Test type I and type II dehydrator operation		
a. Gauge calibration		
b. Tower operation		
c. Purge air pressure		
d. Automatic drain operation		
e. Dew point		
f. Inspect PMS and Tech Manual support		

5511 / 5515	HIGH PRESSURE AIR SYSTEM	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Inspect Tech Manual and EOSS Support		
Inspect PMS Support		
Inspect Gauge Calibration		
Inspect operating/safety instructions are posted		
Inspect compressor oil level and oil samples		
Test compressor auto control and safety switches		
a. Start / Stop switch		
b. Low oil pressure switch		
c. Jacket water temp switch		
d. Compressor temp/pressure monitor operation		
Inspect compressor pressures and temperatures		
Inspect compressor drive belt condition		
Inspect condensate monitoring/drain system		
Inspect all flex hoses are properly tested/labeled		
Inspect all relief valve testing is within periodicity		
Inspect HP air flask certification		
Inspect sea water cooling system		
Inspect air intake/ventilation supply location		
Inspect all HP/LP air reducing stations		
Inspect fresh water pump belts		
Inspect capacity		
Inspect oil wipers		
Inspect pressure regulator valve		
Inspect 50/50 mixture of ethylene glycol		
Inspect seals for oil leaks		

5210	FIRE PUMPS (ELECTRIC and STEAM)	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Inspect Tech Manual and EOSS Support		
Inspect PMS Support		
Inspect Gauge Calibration		
Inspect Transducer Calibration		
Inspect Coupling Guard		
Inspect relief valves are within periodicity		
Test remote start/stop functions		
Test local start/stop functions		
Inspect pump operation/design discharge pressure, unusual noise, bearing temps, etc.		
Test the over speed trip (STEAM)		
Test the speed limiting governor (STEAM)		
Test the turbine auxiliary lube oil pump low-pressure automatic start switch operation (STEAM)		
Inspect lube oil filter indications and oil level (STEAM)		
Test combination exhaust and relief valve (STEAM)		
Inspect the packing and mechanical seal leakage		
Inspect for ferrous fasteners		
Inspect the resilient mounts		
Inspect condition of expansion joints		
Inspect all flex hoses are properly tested/labeled		
Inspect piping lagging		
Inspect grounding straps		
Test remote operated suction/discharge valves		
Inspect the suction strainer		

5240	SEAWATER SERVICE PUMPS		
Component/Sub-Component	Proposed Procedure	Accepted Procedure	
Inspect Tech Manual and EOSS Support			
Inspect PMS Support			
Inspect Gauge Calibration			
Inspect Transducer Calibration			
Inspect Coupling Guard			
Test remote start/stop functions			
Test local start/stop functions			
Inspect pump operation/design discharge pressure, unusual noise, bearing temps, etc.			
Inspect packing and mechanical seal leakage			
Inspect for ferrous fasteners			
Inspect foundation and resilient mounts			
Inspect condition of expansion joints			
Inspect all flex hoses are properly tested/labeled			
Inspect piping lagging			
Inspect grounding straps			
Test remote operated suction/discharge valves			
Inspect the suction strainer			
Test the firemain to seawater reducing station operation, condition and relief valve test periodicity			

5140	AIR CONDITIONING PLANTS		
Component/Sub-Component	Proposed Procedure	Accepted Procedure	
Inspect EPA certifications			
Inspect Tech Manual and EOSS Support			
Inspect PMS Support			
Inspect Gauge Calibration			
Inspect operating/safety instructions are posted			
Inspect compressor oil level and oil samples			
Inspect warning at entrance (Freon usage) posted			
Inspect Refrigerant logs			
Test halocarbon monitor operation			
Test capacity control system operation			
Test calibration of safety shutdowns/alarms			
a. HP/LP pressure switches			
b. C/W, S/W flow/press/temp switches			
c. Low refrigerant temp switch			
d. Low oil pressure switch			
Inspect moisture indicators			
Test compressor operation (parameters, suct/disch valves)			
Test for leaks (oil/freon/water)			
Inspect chilled water pump			
a. suction valve			
b. discharge valve			
c. mechanical seal			
Inspect chilled water expansion tank			
a. Proper operating level			
b. Filling pipe air gap			
c. Relief valves and vacuum breakers			
d. Hose disconnects and warning sign			
Test PPU			
Inspect recovery unit (Inventory Item)			
Inspect for available vacuum pump			
Inspect sea water system			
a. Pump operation			
b. Zincs and nylon tube inserts present			
c. Condenser header condition			
d. Seawater Regulating valve			
Inspect motor controller			
Inspect coupling guard			

Inspect resilient mounts		
Inspect flex hoses		
AUXILIARIES (AX) UNDERWAY DEMO PHASE		
5811	ANCHOR WINDLASS DROP AND RETRIEVAL DEMONSTRATION	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Test - Conduct Anchor Drop and Retrieval test		
- Inspect Servo/Replenishment and Main Relief Pressures during wildcat operation		
- Inspect Anchor drops from the hawsepipe		

5600 / 5611	STEERING DEMONSTRATION	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Inspect proper fluid levels		
Inspect correct Servo/Replenishment pressures		
Test - Demonstrate timed rudder swing checks/ blocking valve test Ahead (as per provided procedure)		
Test - Demonstrate timed rudder swing checks/ blocking valve test Astern (as per provided procedure)		
Inspect for dynamic rudder split from helm indicator		

5331	WATER HEATERS	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Inspect Tech Manual and EOSS Support		
Inspect PMS Support		
Inspect list of heaters onboard and spaces hot water services (berthing/laundry/galley)		
Inspect gauge calibration		
Inspect outlet temp at heater (verify operation)		
Inspect relief valve test data		
Inspect relief valve drain piping		
Inspect cold water inlet pipe for check valve		
Test high temp switch setting		
Test high temp switch warning light		
Inspect lagging condition		
Inspect for steam / water leaks		
Inspect Temp Reg Valve for locking device		
Inspect heater foundation		
Test water temp at basin/spigot		

5351	STEAM RISER and COPPER SERVICE STEAM PIPING	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Inspect Gauge calibration		
Inspect PMS Support		
Inspect warning placard posted – warning bleed pressure before disconnecting...		
Inspect piping/valve condition and operation		
Inspect protective cover		
Inspect relief valve for test data		
Inspect overall area preservation		

Inspect ship has reviewed NAVSEA Wash DC R 130557Z FEB 01 concerning copper piping		
Inspect the ship has established an inspection program IAW NAVSEA message		
Inspect - Conduct a walkthrough of all copper service steam piping to check for leaks IAW NAVSEA message		

5311	WATER PRODUCTION DEMONSTRATION – FLASH TYPE EVAPS	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Inspect PMS and Tech Manual support		
Inspect gauge calibration		
Test flow meter		
Inspect evaporator shell (sight glasses, diffuser cap and scale buildup)		
Test salinity dump valves		
Test interlock device between potable water and feed water valves		
Inspect feed pump (labeled, packing gland, foundation, seal / gland cavity)		
Inspect brine pump (labeled, packing gland, foundation, seal / gland cavity)		
Inspect distillate pump (labeled, packing gland, foundation, seal / gland cavity)		
Inspect brine pump (labeled, packing gland, foundation, seal / gland cavity)		
Inspect heater drain pump (labeled, packing gland, foundation, seal / gland cavity)		
Inspect flexible hose condition and test tag		
Inspect feedwater strainer (foundation and basket)		
Inspect pipe labeling and lagging condition		
Test - Demonstrate 80% water production capability during the 4 Hour Water Production Demonstration		

8543	DUMBWAITER	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Inspect Tech Manual and EOSS Support		
Inspect PMS Support		
Inspect posted operating/safety instructions at each station		
Inspect posted lubrication chart at top station		
Inspect trunk bi-parting doors		
Inspect machinery access cover bolts & nuts		
Inspect machinery oil level		
Inspect hoist machinery mounting hardware		
Inspect hoist drum		
Inspect hoist wire rope and end fittings		
Test slack rope device and limit switch		
Test the hoist brake		
Test the up over travel limit switch		
Test the up deck level limit switch		
Test trunk bi-parting door limit switch		
Inspect car broken rope device		
Inspect car bi-parting door assembly		
Inspect car for missing components		
Test lower level trunk bi-parting doors and limit switch		
Test down over travel limit switch		
Test down level limit switch		
Inspect trunk buffer springs		
Test E-call and sound powered phone system when installed		
Inspect clean out cover mounting hardware		
Inspect motor controller for loose leads, posted placards, grounds and correct fuses		
Inspect dumbwaiter trunk for preservation and cleanliness		
Inspect guide rails		
Test each control station E-stop button		

8543	PACKAGE CONVEYOR	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Inspect Tech Manual and EOSS Support		
Inspect PMS Support		
Inspect posted operating/safety instructions (two man rule/ do not ride) at each station		
Inspect posted lubrication chart at top station		
Test for audible warning when starting conveyor		
Inspect that all station doors are locked		
Inspect that all station controllers are locked		
Test door interlock system		
Inspect load/unloader at each station		
Test door cannot close when loader/unloader is in horizontal or 30 deg inclined position		
Test loader/unloader down interlock switch at each station below upper most level		
Test jam limit switch at each station		
Inspect safety shields are properly installed		
Test up-over travel switch/device operation		
Test clean out door interlock switch if applicable		
Test down overtravel device and switch		
Test indexing feature		
Test E-stop and run/stop buttons at all stations		
Inspect proper florescent lighting at each station		
Inspect trunk shielding and mounting hardware		
Inspect trunk guide rails		
Inspect conveyor trunk for preservation/cleanliness		
Inspect all carrier trays are installed and tight		
Test all station growlers and phone circuits are functional and headsets are present		
Inspect conveyor has been load tested within the last five years to include weight test data		
Inspect speed reducer is filled to proper level with oil		
Inspect drive, driven and carrier chains are properly tensioned		
Test bite panel for correct components and proper operation		
Inspect motor controller for loose leads, posted placards, grounds and correct fuses		
Inspect drive machinery for missing/loose components		

5161	REFRIGERATION PLANTS	
Components/Sub-Components	Proposed Procedure	Accepted Procedure
Inspect EPA certifications		
Inspect Tech Manual and EOSS Support		
Inspect PMS Support		
Inspect Gauge Calibration		
Inspect operating/safety instructions are posted		
Inspect compressor oil level and oil samples		
Inspect warning at entrance (Freon usage) posted		
Inspect Refrigerant logs		
Test halocarbon monitor operation		
Test capacity control system operation (vent plug)		
Test calibration of alarm / shutdowns		
a. HP / LP pressure switches		
b. Sea water flow / pressure switch		
Test compressor operation (parameters, suction/discharge valves)		
Inspect for piping suppressors		
Inspect for leaks (oil/freon/sea water)		
Inspect refrigerant recovery system/vacuum pumps		
Inspect sea water system (pump operation, zincs, nylon tube inserts, and condenser header)		
Test chill/freezer boxes for fan operation, lighting, coil condition and curtains		
Inspect ventilation (flow/location/indicators and alarms)		

6641	FAN ROOMS	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Inspect deck condition		
- No standing water		
- Deck rusted / exfoliated		
- Deck drain not installed		
- Deck drain missing, not secured within deck socket or inoperative		
Inspect deck/bulkheads have no painted over rust		
Inspect lighting is operative and covers installed		
Inspect adequate lighting present in space		
Inspect vent duct condition		
- Access covers present		
- Access cover fasteners not rusted/missing		
- Duct interior is clean		
Inspect correct vent/piping system labeling		
Inspect fan motor installed correctly (flow)		
Inspect filters are clean and can be easily removed		
Inspect filter DP gauge is operative		
Inspect vent heating element is operative and not deteriorated		
Inspect cooling coils are clean		
Inspect thermostatic controls are calibrated, connected and operational		
Inspect the cooling coil drain is piped to the deck drain and is not clogged		
Inspect the proper color coding of piping		
Inspect that all hand wheels are present		
Inspect for damaged / missing lagging		
Test the C/W or steam solenoids are operational		
Inspect for chilled water / steam leaks		
Inspect for bull's eye and CCOL in space		
Inspect for any unauthorized stowed material		
Inspect for any unauthorized flammables		
Inspect the filter cleaning shop		

5331	POTABLE WATER PUMPS	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Inspect Tech Manual and EOSS Support		
Inspect PMS Support		
Inspect Gauge Calibration		
Inspect Transducer Calibration		
Inspect Coupling Guard		
Test local start/stop functions		
Inspect pump operation/design discharge pressure, unusual noise, bearing temps, etc.		
Inspect packing and mechanical seal leakage		
Inspect for ferrous fasteners		
Inspect foundation and resilient mounts		
Inspect all flex hoses are properly tested/labeled		
Inspect grounding straps		

5532 / 5533	O2N2 COMPRESSORS	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Test the operation of ventilation alarms in the O2N2 spaces and DC Central.		
Test emergency shutdown switches for air compressors.		
Test the deluge shower.		
Review Aviators Breathing Logs for contamination of storage tanks and producers.		
Inspect control valve position indicators on the cold box.		
Inspect double-wall piping.		
Inspect producer cold box for leaks.		
Inspect all relief valves testing within periodicity.		
Test the operation of the electronic bulk purity analyzer.		
Inspect gage calibration.		
Test the operation of the Orsat purity analyzer.		
Inspect liquid oxygen transfer hoses.		
Test the operation of the back-pressure regulating valve on the storage tanks.		
Test vacuum in the annular space of the storage tank.		
Perform vacuum pump dead end test.		

Inspect storage flasks are stamped with current test dates.	
Test operation of all reducing manifolds.	
Test operation of nitrogen automatic stop valves (hanger bay and flight deck).	
Inspect O2 charging stations.	
Test fwd and aft plants in both oxygen and nitrogen production.	
Inspect production rates for O2 and N2 production.	
Inspect operational parameters during O2N2 production.	
Test purge flowmeter.	
Test reactivation heaters.	
Test product purity in each production.	
Test liquid oxygen/liquid nitrogen cryogenic pumps.	
Test liquid oxygen/liquid nitrogen vaporizers.	
Inspect gaseous oxygen and nitrogen hoses.	
Inspect cryogenic transfer safety equipment (i.e. white coveralls, etc.)	
Test the low temperature alarm for storage tanks during O2N2 charging.	
Test operation of the R-22 refrigeration unit. (HP plants only)	
Inspect operational parameters of R-22 unit. (HP Plant only)	
Test for air and non-condesable gases. (HP Plant only)	
Test water regulating valve. (HP Plant only)	
Inspect refrigeration logs. (HP Plant only)	
Inspect the HPAC's IAW the attached INSURV HPAC checklist, as applicable.	
Inspect the LPAC's IAW the attached INSURV LPAC checklist, as applicable	
Test operation of the programmable logic control (PLC) panel (LP Plant only)	
Test compressor surge point.	
Test auxiliary lube oil pump.	
Test operation of blow off valve and suction throttle valve.	
Test operation of the condensate drain valves.	
Test the vent fog precipitator.	

6651	BFIMA WORKSHOPS	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Inspect BFIMA matrix and determine the required capabilities for the ship		
Inspect the following items as they pertain to the applicable workshops:		
- PMS and Tech Manual Support of all installed equipment		
- Test operational condition of all installed equipment (E-stops, cutting fluid etc).		
- Test all installed equipment in their capacity		
- Inspect the monorail layout and ensure it supports the function of the workshop		
- Inspect all gauge calibration (calipers)		
- Inspect correct software/hardware present		
- Inspect correct/adequate cutting fluids and oils are present		
- Shops		
- Machine Shop		
- Welding Shop		
- Filter Cleaning Shop		
- Engraving Shop		
- Sheet Metal Shop		
- Motor Rewind Shop		
- Carpenter Shop		
- Valve Shop		
- Internal Combustion Engine Shop		
- Pipe Shop		
- Hydraulic Shop		
- Shipfitting Shop		
- AC&R Shop		
- Pump Shop		

**ELECTRICAL (EL)
PRE-UNDERWAY PHASE
CV 63-67**

EL-005	SHIPS SERVICE TURBINE GENERATORS
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Test Reverse Power Relays	A-11R
Test Parallel Operation	IAW EOP
EL-011	EMERGENCY DIESEL GENERATORS
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Test Automatic Operation of Emergency Switchboard	A-7
3212	400 HERTZ DIST SYSTEM (MOTOR GENERATORS)
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Test Split and Parallel Operation	IAW EOP
Measure Automatic Voltage/frequency regulation at No-Load	18M-2
EL-031	TELL-TALE PANEL/NAVIGATION SIGNAL LIGHT PANEL
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Test navigational lighting panel	R-2
Measure insulation resistance of Navigational Lighting Panel	Q-3
Measure insulation resistance of Signal Light Panel.	Q-3

4331	ANNOUNCING SYSTEMS
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Test General, Chemical, and Collision Alarms from all stations	Q-1R
Test 1MC/3MC from all stations	Q-1R
Test 5MC Operation	Q-2R
Test 21MC Operation	Conduct operational test
4751	DEGAUSSING SYSTEM
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Conduct Linearity Test	Q-1
Conduct ground test.	M-1
Inspect Degaussing Folder	NAVSEA TECH MANUAL
EL-010	AUTOMATIC BUS TRANSFER EQUIPMENT
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Test all Engineering ABT's	S-3R/R-1
Test all remaining ABT's. (Day 2)	S-3R
4371	DISTILLING PLANTS
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Test dump valve operation	S-2
Test alarms settings	S-2
4373	WIND INDICATING SYSTEM
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Test System For Proper Operation	R-1M

3000		THERMAL IMAGING SURVEY
COMPONENT/SYSTEM	PROPOSED PROCEDURE	
Commence Thermal Imaging Throughout The Ship NOTE: Any equipment surveyed that has a temperature rise of 40 degrees centigrade or above (3 or 4 star) must be repaired or tagged out prior to getting underway. The items will not be available until repairs are completed and re-shot for verification	S-1/A-1 / A-3 / A-4 / A-5 / A-6	

ELECTRICAL (EL) UNDERWAY PHASE

NOTE: Electrical Underway Checks Consist Mainly Of Space Walk-Through Throughout The Ship.

In each space inspect the following if applicable:

(INSPECT) FUSE BOXES

COMPONENT/SYSTEM	PROPOSED PROCEDURE
Are fuses pulled from designated circuits without danger tags affixed?	NSTM 300 - 2.4.1
Are there loose or missing locking nuts or gear adrift?	NSTM 300 – 4.8.1
Are circuits properly labeled for easy identification?	GSO 305E
Are there any bent, twisted, misaligned, or broken fuse clips?	NSTM 300 4.8.1
Is the interior rusty or dirty?	NSTM 300 – 4.8.1/5.2.4
Are fuses of the correct amperage and voltage installed?	GSO 303F NSTM 320 – 1.7.4
Are circuits fed from one set of fuses (except battle lantern circuits) multiple?	GSO 331C
Are fuse clips phosphor-bronze instead of silver plated?	NSTM 300 – 4.8.1.2
Were door hinges broken?	5100.19 SERIES NSTM 300
Are non-silver ferruled fuses installed?	NSTM 300 - 2.5.4
Are circuits over fused?	NSTM 300 – 2.5.4
Is clearance provided to permit complete accessibility for maintenance, repair, renewal of fuses, and testing?	GSO 300D

(INSPECT) BATTLE LANTERNS

COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were relay-operated lanterns installed in sufficient number?	NSTM 330 – 1.6.4.3.3.1
Are lanterns installed with suitable bracket assemblies to prevent removal of lantern?	NAVSEA 0964-000-2000 NSTM 300
Were lanterns inoperative?	NSTM 330 – 3.6.2
Were test switches and relay frames grounded?	NSTM 330 – 2.1.8

(INSPECT) BATTLE LANTERNS (CON'T)

COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were lanterns located in explosion proof enclosures (prohibit)?	NSTM 330 – 1.6.4.3.2.2
Were NEALS lanterns installed and were they charged (red indicator)?	NSTM 330 – 1.6.4.3.2
Were relay operated lanterns fused?	NSTM 330 – 1.6.4.3.3.3
(INSPECT / TEST) SHORE POWER SYSTEM	
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Is shore power being properly rigged?	NSTM 320-2.2.7
Did shore power shunt trip interlocks trip its associated breakers when tested?	IAW PMS IAW EOSS GSO 320D
Was shore power system cabling between the receptacles and the ship's switchboard insulation resistance within EOSS or PMS Limits	SPRU NSTM 300/320
Were shore power indicating lights operative, white in color, and all screws installed?	NSTM 320 – 2.2.9
Were warning signs posted?	GSO 070H
Was there pigtail stowage installed?	GSO 320D
Does the shore power system meet the current standards:	GSO 320D
<ul style="list-style-type: none"> - Have a Viking Connector System - Have AQB-LF400 Amp Circuit Breaker with shunt trip - Have a phase sequencing and phase orientation devices. - Have installed ammeter and selector switch to monitor total shore power current. 	

(INSPECT) CATHODIC PROTECTION SYSTEM	
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Was the installed Cathodic Protection System operative and adjusted	GSO 633C
Were the rudder grounding straps made of 1-1/2 inch wide braided copper and brazed to the rudder stock and the hull?	NSTM 633 – 3.3.2.7 GSO 633C
Has the system been turned off greater than 15 days?	GSO 633G
Was brush rigging correctly installed?	NSTM 633- 3.3.2.6
Were shaft grounding brushes correctly installed?	NSTM 633 ICCP Tech Manual
Did shaft grounding brushes exhibit full contact with the slip ring?	NSTM 633 – 3.3.2.6 ICCP TECH MANUAL
(INSPECT / TEST) ALARM SYSTEMS	
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Test alarm switchboards and panels.	4351/Q-2
Were any alarm and warning systems inoperative or missing parts?	GSO 433J
(INSPECT) ORDER/INDICATING/METERING SYSTEMS	
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were Tank Level Indicators (TLI's) out of calibration or inoperative?	GSO 437 E
Were valve position indicator circuits misadjusted or inoperative?	GSO 430H
Were there missing or inoperative salinity cells?	GSO 531B IAW PMS
MOTOR CONTROLLERS	
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were interiors dirty, rusty, deteriorated, or contained gear adrift?	NSTM 302-3.3.2 GSO 320F
Were wiring diagrams, schematics or overload heater tables missing?	NSTM 302-3.3.1

MOTOR CONTROLLERS (CON'T)	
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Was controller electrical wiring properly banded?	ELECT PLT. INST. STD METHODS/GSO 302F
Were Start, Stop, "Emergency Run" or Reset buttons seized, missing or inoperative?	3001/S-1/18M-1
Were rubber boots cracked, torn or missing?	NSTM 300-3.2.2 3001/S-1/18M-1
Were overload relay heaters properly sized and adjusted to provide adequate protection for the motor?	NSTM 302-3.3.2 GSO 302G
Were switches protected against inadvertent activation?	GSO 070H
Were controllers with multiple power sources properly labeled?	GSO 305C
Were motor foundations properly preserved?	GSO 631J
Were controllers and remote operating stations properly labeled?	GSO 305C
Is clearance provided to permit complete accessibility for operation, maintenance, repair, renewal of fuses, and testing?	GSO 300D
WORKBENCHES	
COMPONENT/SYSTEM	PROPOSED PROCEDURE
- Does the workbench conform to standards set forth in NSTM 300 APP H? (Insulation, ground straps, disconnect switches, labeling, ground connections, etc)	NSTM 300 GSO 320E GSO 665 GSO 650
(INSPECT) ELECTRICAL SAFETY	
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were flat irons a high-grade commercial type with a three pronged cord?	NSTM 300-2.7.3.6 GSO 640G

Were Ironing Board Stations in berthing space modified to remove spotlight and fill the access hole? Ensure irons are not hardwired.	GSO 640G
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(INSPECT) ELECTRICAL SAFETY (CON'T)

COMPONENT/SYSTEM	PROPOSED PROCEDURE
Have shorting probes been modified by installing a nylon screw in the end of the probe and soldering the clip to the conductor?	NAVELEX 0101, 110A FIG 1-3 IAW PMS
Are portable tools/devices not stamped "Double Insulated" or equipped with a three pronged cord?	NSTM 300-2.7.3.3 IAW PMS
Were Hospital grade plugs used on portable equipment?	NSTM 300-2.7.3.2.8
Were light fixtures, guards, and covers securely mounted?	NSTM 300-4.3.3
Were over-sized lamps installed in lighting fixtures?	NSTM 330-2.2.4 NSTM 330-2.2.9
Were light fixtures missing lenses, protective guards, or faceplates?	NSTM 330-2.1.4 NSTM 330-2.2.6
Did diesel module room have adequate lighting?	GSO 331B GSO 332E
Were spray-tight fixtures adequately protected against water intrusion?	NAVSEA 0964-000-2000
Was bunk lighting cable hanging, or not routed through the inside of bunk stanchions?	NAVSEA 0964-000-2000

(INSPECT) CABLING

COMPONENT/SYSTEM	PROPOSED PROCEDURE
Was PVC cabling installed (new construction only)?	GSO 304D
Were dead-ended cables properly identified/terminated?	NSTM 300-4.6.7 GSO 304E NSTM 300-4.6.9 DOD-STD-2003-1
Were useless or improperly installed cables removed?	NSTM 300-4.6.7.1 GSO 304E
Was cabling properly supported, routed or were nylon	GSO 304E

wire ties being utilized?	
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(INSPECT) CABLING (CON'T)

COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were cables pulling out of equipment?	GSO 331E
Were cables improperly spliced?	GSO 304E NSTM 300-4.6.8 DOD-STD-2003-1
Were cables protected against being handholds or being stepped on?	GSO 304E
Was cabling run through beams without the use of chaffing rings?	NSTM 300 TABLE 300-4-4 GSO 304E
Was cabling running through metal partitions equipped with grommets?	GSO 304E NSTM 320-1.6.11
Were cable stuffing tubes properly assembled ?	NSTM 300-4.6.10.1 NSTM 300 TABLE 300-4-4 NSTM 320-1.6.11 GSO 304E
Were multiple cables running through one stuffing tube?	GSO 304E NSTM 300 TAB. 300-4-4
Were multi-cable penetrators installed in Flammable Liquid Storerooms?	GSO 304E MIL-STD-1310

(INSPECT) BUS TRANSFER EQUIPMENT

COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were ABT's installed for the following: <ul style="list-style-type: none"> - Emergency Lighting. - IC Switchboard and panels. - Steering power panel. - Pumps associated with the main and auxiliary machinery plant having Low Voltage Release (LVR) control. - Fire pumps. - Fire extinguishing auxiliaries and controls. 	NSTM 320-1.3.2 GSO 320D
Did ASCO ABT transfer switches have an electrical charge on the metal screw on the manual operator?	NAVSEA FSC SER 03E2/03E2-234
Was the sliding interlock on manual bus transfer switches effective at preventing both breakers from	NSTM 300-4.8.4.2

being closed at the same time?	
Are feeder circuit breaker megger holes blanked off?	NAVSEA 230319ZNOV 98
Were Normal/Alternate source indicating lights operative?	NSTM 320-2.2.6.4
(INSPECT) SHIP TELEPHONE SYSTEM	
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Was the system unreliable due to unresolved software or hardware deficiencies?	NSTM 430-3 GSO 432
Test battery back-up for telephone system	NSTM 313-2.5 GSO 313J
(INSPECT) MOTORS	
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were motor foundations properly preserved?	NSTM 300- 5.4.3.10 GSO 631J
Was resilient mounted electrical equipment grounded to the ships hull through ground straps?	NSTM 300- 2.2.1
Did electrical rotating machinery have ball check grease fittings (zerk fittings) installed?	NSTM 244
Were coupling, belt, or chain guards effective?	GSO 320E
POWER PANELS	
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Do labels specify the proper information?	GSO 305E
Do Breaker ratings match the circuit label current rating?	GSO 305E
Are multi-phase circuits missing breaker connecting handles?	GSO 324C
Were power panels located inside galley spaces?	GSO 320E
Is clearance provided to permit complete accessibility?	GSO 300D
CASUALTY POWER CABLES	
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were cable ends properly terminated?	GSO 304E NSTM 320-3.4.1 DOD-STD-2003
Were cables deteriorated from age, heat, and	NSTM 079-47.4.2.2.10

humidity?	
Were normally energized power terminals labeled?	NSTM 320-1-2-8-2 GSO 320G
Were racks properly identified as to number/length of cables assigned to the rack?	GSO 305F
CASUALTY POWER CABLES (CON'T)	
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Is there a label attached at the end of the cable to indicate the length and stowage rack number?	GSO 305F DOD-STD-2003
Are cable leads properly identified for phase identification?	NSTM 320-1.2.8.2
Were cable ferrules missing or heavily oxidized?	NSTM 079-47.4.2.2.6
Was an improper number/length of cable installed on a cable rack?	NSTM 079-47.5.6.1 GSO 320G
Were wrenches missing from terminals?	NSTM 079-47.4.2.3.3
Were covers installed on power terminals?	NSTM 079-47.4.2.3.4 NSTM 079-47.4.2.3.6 GSO 320G
ELECTRICAL DISTRIBUTION EQUIPMENT	
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Was electrical distribution equipment securely mounted?	NSTM 300-4.3.3 GSO 300D
Electrical distribution equipment have loose or missing covers?	NSTM 300-4.3.3
Were control knobs or fasteners missing from electrical equipment?	NSTM 300-4.3.3
Was electrical equipment protected from water intrusion?	NSTM 300-4.4.1 NSTM 300-4.4.5
Is electrical properly mounted or was it suspended solely by electrical cables?	NSTM 300-4.3.3
Were 440 multipurpose outlets properly phased?	NSTM 320-1.4.1
Did Standard Navy Receptacles (SNR) and Multi-Purpose Outlets (MPO) have an interlock switch or was the switch function such that the plug	NSTM 320-1.4.1

could not be removed from an energized receptacle?	
Were electrical receptacles broken or damaged?	NSTM 300-2.7.6
Were 400HZ AC, 60HZ AC, and DC convenience outlets labeled to prevent equipment being used with the wrong frequency?	GSO 320
SOUND POWERED TELEPHONE SYSTEMS	
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were any Sound Powered Circuits below 50,000 ohms resistance to ground?	GSO 4321
Were Sound Powered Call Signal Stations (growlers) inoperative, corroded, damaged or missing parts?	NSTM 430
Were Sound Powered Jackboxes improperly labeled, corroded, damaged, or missing parts?	NSTM 430-3.2
(INSPECT) LIGHTING	
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were darken ship switches operative and adjusted properly? Ship provide list of darken ship switches for survey.	DOD-HDBK-289 NSTM 330-3.6.5
Were light fixtures, guards, and covers securely mounted?	NSTM 300-4
Were over-sized lamps installed in lighting fixtures?	NSTM 330-2
Were light fixtures missing lenses, protective guards, or faceplates?	NSTM 330-2
Were spray-tight fixtures adequately protected against water intrusion?	NSTM 300-4
Did diesel module room have adequate lighting?	GSO 331B/332E
(INSPECT) BATTERY LOCKERS	
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Was a Battery Log maintained?	NSTM 313-2 GSO 313F
Is there an electrical interlock between exhaust ventilation and battery charger?	5100.19C C0904 NSTM 313
Test ventilation interlocks	3131/S-2
Are Alkaline and Lead Acid Batteries being serviced in the same facility?	5100.19 C0904 GSO F

Is each locker provided with: - Rubber Gloves and Aprons. - Goggles. - Two battery fillers. - Two battery test sets. - One soda water container.	5100.19 GSO 313F NSTM 313
Does the locker contain an eye wash station and a deluge shower?	NSTM 313-2

(INSPECT) BATTERY LOCKERS (CON'T)	
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Are battery storage racks greater than 12 inches between tiers?	GSO 313F
Were battery hold-down clamps provided?	GSO 313F
Are Acids stored in appropriate protective containers?	GSO 313F
Are battery charger plugs and jacks marked NEG. and POS.?	GSO 313F
(INSPECT) MISCELLANEOUS EQUIPMENT	
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Is permanently mounted electrical equipment hardwired to the ships electrical system?	NSTM 330-1
Is hardwired electrical equipment permanently mounted?	NSTM 330-1
Was more than 1 multi-purpose power strip connected to one isolated receptacle circuit?	NSTM 300-2.7
Is electrical equipment mounted on non-conducted surfaces properly grounded?	3000 / A-5
Were Surge Protectors of the approved type?	3000 / A-4R
Are portable electric device power cords properly tinned?	3000 / Q-1R
Are permanent-type safety precautions, operating instructions, high voltage warning signs, and resuscitation instructions installed where required?	NSTM -H.5, I-2
Did electrical connection boxes have knockouts pushed in leaving access holes In the side?	NSTM 300-2.

Are non-watertight connection boxes being used in engineering spaces?	GSO 300D
Was rubber matting oil soaked, cracked, punctured, perforated or had imbedded metal or conductive particles?	GSO 634B

(INSPECT) MISCELLANEOUS EQUIPMENT (CON'T)	
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Did dress ship lights have broken, missing, or incorrect guards?	NSTM 330-1 3000/ R2
Were dress ship light receptacles labeled "Dress Ship Light Streamers. Not to be used for any other purpose"?	NSTM 330-1-
Were panel switches controlling circuits that are de-energized during darkened ship operation marked DARKENED SHIP?	NSTM 330-1
Had the float charge on the UPS batteries been reduced from 135vdc to 129vdc?	IAW PMS
Was UPS electronic cabinet bottom sealed to prevent water of oil entry from lower level engine room?	GSO 300D/324D NSTM 300-4

ELECTRICAL (EL) POST-UNDERWAY CV 63-67	
OPEN AND INSPECT AS REQUIRED BY THE INSPECTION	
COMPONENT/SYSTEM	PROPOSED PROCEDURE

Inspect for sliding feet movement	2210 (M-1)
Inspect gauges/instruments	CRL/CIL

MAIN PROPULSION PRE-UNDERWAY PHASE CV 63/67	
2210	PROPULSION BOILERS
Component/Sub-Component	Proposed Procedure
IDLE BOILER:	
Test F/O safety shutoff/root valves	2210 (R-5)
Test F/O Quick Closing Valves	EOP FOS
Inspect burner lead bends and flange shields	NSTM 505
Test final control element air locks	2212 (A-3R)
Test F/O service tank bulkhead stop valves	EOP FOS
Test F/O service tank Quick Closing valves	EOP FOS
Test steam smothering system	EOP 150R
Test safety valve hand easing gear	2210 (24M-2)
Test remotely close main steam stop valve	EOP MLOC
Test remotely close auxiliary steam stop valve	EOP MLOC
ALL BOILERS:	
Test boiler water high/low level alarms	2210 (Q-3R)
Test gauge glass hand easing gear	LOCAL PROCEDURE
Inspect gauge glass normal/emergency lighting	LOCAL PROCEDURE
Inspect bottom blow system material	2210 (R-4)
Inspect bottom blow valves for leak by	2210 (R-4)

2210	PROPULSION BOILERS
Component/Sub-Component	Proposed Procedure
Inspect Periscope	NSTM 221
Inspect smoke pipe expansion joint	NSTM 221
Inspect Boiler Casing and Insulation	NSTM 221
Inspect Sample Coolers	NSTM 220
Inspect drain valve piping	NSTM 505
Test ABC system 28 VDC UPS	2212 (Q-4R)
Inspect Elec ABC system laptop computer	TECH MANUAL
2550	MAIN FEED PUMPS
Component/Sub-Component	Proposed Procedure
Test low suction trip/roll over	F-13 (Q-5)
Test/Sample lube oil	2000/001 (R-1)
Test combination exhaust/relief valve	5000 (72M-1R)
Test electric lube oil pump auto start	F-13 (S-4)
Inspect pump packing gland/mechanical seal	NSTM 503
Inspect flange shields	NSTM 505
Inspect relief valves	NSTM 505
Inspect gauges/instruments	CRL/CIL
2550	MAIN BOOSTER PUMPS

Component/Sub-Component	Proposed Procedure
Test Automatic Start	F-014 (S-3)
Inspect MFBBP - motor controller - motor - packing gland/mechanical seal	EOP MFBBT NSTM 503

Inspect DFT - relief valve - vacuum breaker - gauge glass	NSTM 505
Inspect gauges/instruments	CRL/CIL

2511	FORCED DRAFT BLOWERS
Component/Sub-Component	Proposed Procedure
Test low lube oil trip/ roll over	F-2 (Q-2)
Test speed limiting governor	F-2 (Q-1)
Inspect/Sample lube oil	2000/001 (R-1)
Test damper operation	F-2 (PM-2)
Test elect lube oil pump auto start/stop	EOP FDBT
Inspect gauges/instruments	CRL/CIL
Inspect flange shields	NSTM 505
2550	CHELANT TREATMENT SYSTEM
Component/Sub-Component	Proposed Procedure
Inspect Spill Locker and inventory Inspect hydrazine locker Inspect injection cabinet Inspect chelant treatment tank and associated equipment Inspect eyewash station	NSTM 220
2550	DEAERATING FEED TANK
Component/Sub-Component	Proposed Procedure
Test DFT gauge glass hand easing gear	LOCAL EOP
Test D.O.	NSTM 220

2610	FUEL OIL SERVICE PUMPS
Component/Sub-Component	Proposed Procedure
Test remote steam shut down	F-4 (S-8)
Test Speed Limiting Governor	F-4 (S-3)
Inspect electric fuel oil service pump	EOP FOSM
Inspect mechanical seal leakage	NSTM 503
Inspect instruments/gauges and thermometers	CRL/CIL
Flush revolving basket strainer/shift duplex strainer	EOP FOS
Inspect discharge relief valve	NSTM 505
2550	EMERGENCY FEED PUMP
Component/Sub-Component	Proposed Procedure
Demonstrate operation and feed boiler successfully for 10 minutes	EOP EFPT
Inspect EFP - water/steam leakage - pump discharge relief valve	NSTM 503 NSTM 505
Inspect gauges/instruments	CRL/CIL
2211	BOILER INSPECTION DEVICE
Component/Sub-Component	Proposed Procedure
Test boiler inspection device	2211 (M-2R, M-3R)

ADMIN/DOCUMENTATION	
Component/Sub-Component	Proposed Procedure
BW/FW records (last 3 months)	NSTM 220/221
Bottom blow UT records	NSTM 220/221
Soot blow ppg UT records	NSTM 220/221
Soot blow head UT records	NSTM 220/221
Burner barrel hydrotest records	NSTM 220/221
2320 MAIN ENGINES	
Component/Sub-Component	Proposed Procedure
Test Main Condenser SW Inlet Valve	E-004 (R-8M)
Test Main Condenser SW Outlet Valve	E-004 (R-8M)
Test Scoop Injection SW Inlet Valve	E-004 (R-8M)
Test Main Engine Guarding Valve	EOP MEGV
Test Throttle Valves	EOP MEGV
Inspect Turbine Gland Seal Regulating Valve	NSTM 505
Inspect Turbine Gland Seal Dump Valve	NSTM 505
Inspect Turbine Crossover Piping Sentinel Valves	NSTM 505
Inspect Air Ejectors	EOP MEAJ
Inspect Drain systems	NSTM 505
Test Main Circ Pump Emerg Bilge Suction Vlv	E-005 (S-2)
Test Main Circ Pump Speed Limiting Gov	E-005 (Q-4)
2410 REDUCTION GEARS	
Component/Sub-Component	Proposed Procedure
Inspect Sump Level and Lube Oil Condition	2000/001 (R-1)
Inspect Gear Teeth, Lube Oil Spray Pattern, Casing Interior	E-700 (R-22)
Inspect Attached LO Pump Angle Drive Gear	E-700 (54M-15)
Inspect Oil Flow in SFI's	NSTM 244
Inspect Temperature Gauges	CRL/CIL

Inspect Casing Exterior	E-700 (PM-4)
Inspect Vent Fog Precipitator	EOP MEVP
Inspect Thrust Block	NSTM 244
Test Shaft Turning Gear and Locking Device	EOP MEJG
Inspect Security Devices	E-080 (S-1, 2, 3, 4, 5, 6)
Inspect Piping Systems	NSTM 505
Inspect Flange Shielding	NSTM 505
Dehumidifier	EOP MEDE
2990 LINE SHAFT BEARINGS	
Component/Sub-Component	Proposed Procedure
Inspect/Sample lube oil	2000/001 (R-1)
Inspect Sump Drain Valve	NSTM 244
Inspect Seals	NSTM 244
Inspect Thermometers	CRL/CIL
Inspect Lubricator	NSTM 244
Inspect Dip Stick	NSTM 244
Inspect Lock Wires	NSTM 244
Inspect Bearing Depth Mic Surface	NSTM 244

2430 STERN TUBE SEALS	
Component/Sub-Component	Proposed Procedure
Test Cooling Water Low Flow Alarm	E-012/090 (S-8R)
Test Inflatable Seal	E-012/090 (S-1)
Inspect Gauges	CRL/CIL
Inspect Cooling Water Piping	NSTM 505
Inspect/shift Cooling Water Strainer/Filter	EOP STC
Inspect underway seal leakage rate	NSTM 244
Inspect LP Air Supply	E-012/090 (S-1)
Inspect LP Piping/Hoses/Fittings	E-012/090 (S-1)

Inspect CO2/N2 Piping/Fitting	E-012/090 (S-1)
Inspect Emergency Flax Packing Kit	E-012/090 (S-1)

Inspect Unloading Valve	NSTM 505
Demonstrate Lube Oil Purifier Operation	EOP LOPO
Demonstrate L/O purifier emergency stop	EOP LOPO
Demonstrate Lube Oil Purifier Efficiency	EOP LOPO
Inspect Lube Oil Purifier Heater relief valve/test data tag	NSTM 505

2620	LUBE OIL SYSTEMS	
Component/Sub-Component	Proposed Procedure	
Test Main Engine Lube Oil Sequencing	E-10/047 (Q-4)	
Test Main Engine Low Lube Oil Alarm	E-10/047 (Q-3)	
Inspect Electric Lube Oil Pump - Motor - Flexible coupling - Mechanical Seals - Valves and piping	EOP LOPM	
Inspect SLOP Lube oil sump level	2000/001 (R-1)	
Inspect Steam Lube Oil Pump (SLOP) - Turbine - Pump - Mechanical Seals - Valves and piping	EOP LOPT	
Test combination/exhaust relief valve	5000/013 (72M-1R)	
Test SLOP speed limiting governor	E-9/070 (Q-1)	
Inspect attached Main Engine Lube Oil Pump - Coupling - Mechanical Seals	NSTM 503	
Inspect Lube Oil Strainer Baskets/enclosure	EOP LODS	
Inspect system flange shields	NSTM 505	
Inspect lube oil pump relief valves/test data tag	NSTM 505	
Inspect gauges and instruments	CRL/CIL	
Inspect Temp Regulating Valve	NSTM 505	

2500	CONTROLS	
Component/Sub-Component	Proposed Procedure	
Test EOT Indicator	EOP EOT	
Test RPM Indicator	EOP EOT	
Test Console Alarms and Indicators	EOP EOT	
Test Wrong Direction Alarm	EOP EOT	
Test Bell Logger	EOP EOT	

1130	HULL STRUCTURE	
Component/Sub-Component	Proposed Procedure	
Inspect Bilges/Angle Irons	NSTM 631	
Inspect Deck Plates	NSTM 631	
Inspect Equipment Foundations and resilient mounts	NSTM 631	
Inspect Paint and Preservation	NSTM 631	
Inspect Pipe Brackets/Hangers	NSTM 631, MIP A-700 (18M-1R)	
Inspect Lighting	NSTM 300	

3110	GENERATORS	
Component/Sub-Component	Proposed Procedure	
Inspect Lube Oil Condition/ Sump Level	2000/001 (R-1,2)	
Inspect Lube Oil SFIs	NSTM 241-2.3.8; 244-3.3.6	
Inspect Vent Fog Precipitator	NSTM 241-3.2.6	
Inspect/Shift Lube Oil Strainer	EOP LOSTG	
Airbox Telltale Drains	NSTM 310	
Test Alarm Panel	EOP TG	
Inspect Gland Seal Operation	EOP TG	
Inspect Aux Circ Pump - Motor - Controller - Packing gland/mechanical seal	EOP TG	
Inspect Aux Cond Pump - Motor - Controller - Packing gland/mechanical seal	EOP TG	
Inspect Aux Air Ejectors	EOP TG	
Test Lube Oil Pump Autostart	EOP TG	
Test Low Lube Oil Alarm	3111 (OT-1)	
Inspect Turbine Casing Relief Valve	NSTM 505	
Test Overspeed Trip	3111 (Q-1)	
Test Manual Trip	EOP TG	

Test Back Pressure Trip	3111 (18M-3)
Test Auxiliary Condenser SW Inlet Valve	2560 (R-4)
Test Auxiliary Condenser SW Outlet Valve	2560 (R-4)
Inspect centrafilter	EOP TG
Inspect flange shields	NSTM 505
Inspect duplex oil filter(GOV)	EOP TG
Inspect Aux Condenser sight glass	EOP TG

MAIN PROPULSION UNDERWAY PHASE CV 63/67	
TEAM ARRIVAL	
Component/Sub-Component	Proposed Procedure
Check applicable equipment for correction of deficiencies.	
Tour space, ensure ready for sea.	
MISCELLANEOUS	
Component/Sub-Component	Proposed Procedure
Inspect Oil Lab, sampling equipment	NSTM 220
Complete Open and Inspect List and give a copy to the Engineer Officer.	
DEMONSTRATIONS	
Component/Sub-Component	Proposed Procedure
Demonstrate Full Power ahead (1 hour)	PMS/EOSS/POG/9094.1B
Demonstrate Quick Reversal Astern	POG/Full Power Memo/EOSS

Demonstrate Quick Reversal Ahead	POG/Full Power Memo/EOSS
Demonstrate soot blower operation as soon as possible after underway. Note: Demonstrate soot blower head pressure PMS on one rotating and one stationary head per boiler while blowing tubes.	EOP BSBO
Demonstrate boiler flex test (all boilers will be flexed prior to Full power.)	2212/161 (S-4R)