

**ELECTRICAL (EL)
PRE-UNDERWAY PHASE
AGF 3-11**

EL-005	SHIPS SERVICE TURBINE GENERATORS
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Test Reverse Power Relays	A-2R
Test Parallel Operation	EOP
3241/3121	EMERGENCY DIESEL GENERATOR
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Dead Bus Pick-up	Locally generated procedure/PMS
	400 HERTZ DIST SYSTEM (MOTOR GENERATORS)
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Test Split and Parallel Operation	IAW EOP/CSOSS
EL-031	TELL-TALE PANEL/NAVIGATION SIGNAL LIGHT PANEL
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Test Navigational Lighting Panel.	R-2
Measure insulation resistance of Signal Lights.	Q-3
Measure insulation resistance of Navigational Lights.	Q-3
4331	ANNOUNCING SYSTEMS
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Test General, Chemical, and Collision Alarms from all stations	Q-1R
Test 1MC from all stations	Q-1R
Test 5MC Operation	Q-2R
Test 6MC Operation	Q-1R
Test 21MC Operation	Conduct Operational Test

Test general announcing system oscillator/amplifier (both).	Tech Manual
Measure speaker group insulation.	A-1
4751	DEGAUSSING SYSTEM
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Conduct Linearity Test	Q-1
Conduct ground test.	M-1
Inspect Degaussing Folder	NAVSEA TECH MANUAL
EL-10	AUTOMATIC BUS TRANSFER EQUIPMENT
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Test All Engineering ABT's.	S-3R
Test all remaining ABT's. (Day 2)	S-1
4371	DISTILLING PLANTS
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Test Dump valve operation	S-2
Test alarms/settings	S-2
4373	WIND BIRDS
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Test System For Proper Operation	R-1M
5081	THERMAL IMAGING SURVEY

COMPONENT/SYSTEM	PROPOSED PROCEDURE
<p>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</p>	<p>R-1 / R-2</p>

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
(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?	
(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 being closed at the same time?	NSTM 300-4.8.4.2

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 humidity?	NSTM 079-47.4.2.2.10
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 could not be removed from an energized receptacle?	NSTM 320-1.4.1
Were electrical receptacles broken or damaged?	NSTM 300-2.7.6
Were 400HZ AC, 60HZ AC, and DC convenience	GSO 320

outlets labeled to prevent equipment being used with the wrong frequency?	
SOUND POWERED TELEPHONE SYSTEMS	
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were any Sound Powered Circuits below 50,000 ohms resistance to ground?	GSO 432I
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?	NSTM 330-3
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?	GS0 300D/324D NSTM 300-4

ELECTRICAL (EL) POST-UNDERWAY AGF 3 -11	
OPEN AND INSPECT AS REQUIRED BY THE INSPECTION	
COMPONENT/SYSTEM	PROPOSED PROCEDURE

**MAIN PROPULSION
PRE-UNDERWAY PHASE
AGF**

2210	PROPULSION BOILERS	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
IDLE BOILER:		
Test F/O safety shutoff/root valves		
Test F/O Quick Closing Valves		
Inspect burner lead bends and flange shields		
Test final control element air locks		
Test F/O service tank bulkhead stop valves		
Test F/O service tank Quick Closing valves		
Test steam smothering system		
Test safety valve hand easing gear		
Test remotely close main steam stop valve		
Test remotely close auxiliary steam stop valve		
ALL BOILERS:		
Test boiler water high/low level alarms		
Test gauge glass hand easing gear		
Inspect gauge glass normal/emergency lighting		
Inspect bottom blow system material		
Inspect bottom blow valves for leak by		
Inspect for sliding feet movement		
Inspect gauges/instruments		
Inspect Stack Gas Analyzer		

2210	PROPULSION BOILERS	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Inspect Periscope		
Inspect smoke pipe expansion joint		
Inspect Boiler Casing and Insulation		
Inspect Sample Coolers		
Inspect drain valve piping		
Test ABC system 28 VDC UPS		
Inspect Elec ABC system laptop computer		

2550	MAIN FEED PUMPS	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Test low suction trip		
Test overspeed trip mechanism		
Test/Sample lube oil		
Inspect roll over		
Test combination exhaust/relief valve		
Inspect pump packing gland/mechanical seal		
Inspect flange shields		
Inspect relief valves		
Inspect lube oil cooler		
Inspect gauges/instruments	CRL/CIL	

2550	MAIN BOOSTER PUMPS	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Test low pressure alarm		
Inspect gauges		
Inspect pump motor controller		
Inspect pump motor		
Inspect pump packing gland/mechanical seal		

2511	FORCED DRAFT BLOWERS	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Test low lube oil trip		
Test speed limiting governor		
Inspect/Sample lube oil		
Test damper operation		
Test roll over		
Inspect gauges/instruments		
Inspect lube oil cooler		
Inspect flange shields		

2610	FUEL OIL SERVICE PUMPS	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Test remote shut down (cold plant)		
Inspect turbine-driven fuel oil service pump/Test Speed Limiting Governor		
Inspect electric fuel oil service pump		

2610	FUEL OIL SERVICE PUMPS	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Inspect electric fuel oil service pump motor controller		
Inspect flexible hose assembly/fuel oil service system		
Inspect mechanical seal leakage		
Test fuel oil service constant pressure control valve		
Test auto speed advance/low pressure shut down		
Inspect gauges		
Inspect/test fuel oil heater		
Flush revolving basket strainer		
Shift duplex strainer		
Inspect discharge relief valve for modification/tag out		

2550	DEAERATING FEED TANK	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Inspect for leaks		
Inspect DFT relief valve		
Inspect DFT vacuum breaker		
Inspect DFT gauge glass		
Test DFT gauge glass hand easing gear		
Inspect gauges/instruments		

2550	EMERGENCY FEED PUMP	
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Component/Sub-Component	Proposed Procedure	Accepted Procedure
Demonstrate operation and feed boiler successfully for 10 minutes		
Inspect for water leakage		
Inspect for steam leakage		
Inspect pump discharge relief valve		
Inspect gauges/instruments		

2211	BOILER INSPECTION DEVICE	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Test boiler inspection device		
Inspect boiler inspection device case		

ADMIN/DOCUMENTATION

Component/Sub-Component	Proposed Procedure	Accepted Procedure
BW/FW records (last 3 months)		
Bottom blow UT records		
Soot blow ppg UT records		
Soot blow head UT records		
Burner barrel hydrotest records		
Boiler workcenter CSMP		
Oil lab workcenter CSMP		
Boiler controls workcenter CSMP		
Boiler related CASREP's		
Boiler related DFS's		
Daily fuel & water report		
Safety valve settings & date		

2320	MAIN ENGINES
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Component/Sub-Component	Proposed Procedure	Accepted Procedure
Test Main Condenser SW Inlet Valve		
Test Main Condenser SW Outlet Valve		
Test Scoop Injection SW Inlet Valve		
Test Auxiliary Exhaust Valve		
Test Main Circ Pump Emerg Bilge Suction Valve		
Test Main Engine Guarding Valve		
Test Throttle Valves		
Inspect Turbine Gland Seal Regulating Valve		
Inspect Turbine Gland Seal Dump Valve		
Inspect Turbine Crossover Piping Sentinel Valves		
Test Main Circ Pump Speed Limiting Governor		
Inspect Exhaust Trunk Thermometer		
Inspect Air Ejectors		
Inspect Drain systems		

Component/Sub-Component	Proposed Procedure	Accepted Procedure
Inspect Sump Level and Lube Oil Condition		
Inspect Gear Teeth, Lube Oil Spray Pattern, Casing Interior		
Inspect Attached LO Pump Angle Drive Gear		
Inspect Oil Flow in SFI's		
Inspect Temperature Gauges		
Inspect Casing Exterior		
Inspect Vent Fog Precipitator		
Inspect Thrust Block		
Test Shaft Turning Gear and Locking Device		
Test Attached LO Pump Engage/Disengage		
Inspect Security Devices		
Inspect Piping Systems		
Inspect Flange Shielding		
Dehumidifier		

2410	REDUCTION GEARS
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2990	LINE SHAFT BEARINGS
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Component/Sub-Component	Proposed Procedure	Accepted Procedure
Inspect/Sample lube oil		
Inspect Sump Drain Valve		
Inspect Seals		
Inspect Thermometers		
Inspect Lubricator		
Inspect Dip Stick		
Inspect Lock Wires		
Inspect Bearing Depth Mic Surface		

2430	STERN TUBE SEALS	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Inspect Gauges		
Inspect Cooling Water Piping		
Inspect/shift Cooling Water Strainer/Filter		
Test Cooling Water Low Flow Alarm		
Inspect underway seal leakage rate		
Inspect LP Air Supply		
Inspect LP Piping/Hoses/Fittings		
Inspect CO2/N2 Piping/Fitting		
Test Inflatable Seal		
Inspect Emergency Flax Packing Kit		
Inspect Backing Ring		

2620	LUBE OIL SYSTEMS	
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Component/Sub-Component	Proposed Procedure	Accepted Procedure
Test Main Engine Lube Oil Sequencing		
Test Main Engine Low Lube Oil Alarm		
Test/Inspect Electric Lube Oil Pump <ul style="list-style-type: none"> - Motor - Flexible coupling - Mechanical Seals - Valves and piping 		
Inspect SLOP Lube oil sump level		
Test/Inspect Steam Lube Oil Pump (SLOP) <ul style="list-style-type: none"> - Turbine - Pump - Mechanical Seals - Valves and piping 		
Test combination/exhaust relief valve		
Test SLOP speed limiting governor		
Inspect attached Main Engine Lube Oil Pump <ul style="list-style-type: none"> - Coupling - Mechanical Seals 		
Inspect Lube Oil Strainer Baskets		
Inspect Lube oil cooler		
Inspect Lube Oil Strainer Enclosure		
Inspect Flexible hose assemblies		
Inspect system flange shields		
Inspect lube oil pump relief valves/test data tag		
Inspect gauges and instruments		
Inspect Temp Regulating Valve		
Inspect Unloading Valve		
Demonstrate Lube Oil Purifier Operation		

2620	LUBE OIL SYSTEMS	
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Component/Sub-Component	Proposed Procedure	Accepted Procedure
- Inspect Lube Oil Purifier Flexible hoses		
- Inspect Lube Oil Purifier Heater relief valve/test data tag		
- Inspect Lube oil heater		
- Demonstrate L/O purifier emergency stop		
- Demonstrate Lube Oil Purifier Efficiency		

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

1130	HULL STRUCTURE	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Inspect Bilges/Angle Irons		
Inspect Deck Plates		
Inspect Equipment Foundations and resilient mounts		
Inspect Paint and Preservation		
Inspect Pipe Brackets/Hangers		
Inspect Lighting		

3110	GENERATORS	
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Component/Sub-Component	Proposed Procedure	Accepted Procedure
Inspect Sump Level		
Inspect Lube Oil Condition		
Inspect Lube Oil SFIs		
Inspect Vent Fog Precipitator		
Inspect/Shift Lube Oil Strainer		
Airbox Telltale Drains		
Test Alarm Panel		
Inspect Gland Seal Operation		
Test Governor High and Low Speed Stops		
Test Aux Circ Pump		
- Inspect Aux Circ Pump Motor		
- Inspect Aux Circ Pump Controller		
Test Aux Cond Pump		
- Inspect Aux Cond Pump Motor		
- Inspect Aux Cond Pump Controller		
Inspect Aux Air Ejectors		
Test Lube Oil Pump Autostart		
Test Low Lube Oil Alarm		
Test Low Lube Oil Trip		
Inspect Turbine Casing Relief Valve		
Test Overspeed Trip		
Test Manual Trip		
Test Back Pressure Trip		
Test Auxiliary Condenser SW Inlet Valve		
Test Auxiliary Condenser SW Outlet Valve		

3110	GENERATORS	
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Component/Sub-Component	Proposed Procedure	Accepted Procedure
Inspect centrafilter		
Test centrafilter DP alarm		
Inspect aux exh dump valve		
Inspect flange shields		
Inspect duplex oil filter(GOV)		
Inspect Aux Condenser sight glass		
Inspect LO Cooler		

Component/Sub-Component	Proposed Procedure	Accepted Procedure
Verify operational status of each workstation	ICAS Tech Manual	
Verify number of required portable data terminals (PDT) and that they are operational	ICAS Tech Manual	
Verify number of required portable diagnostic aids (PDA) and that they are operational	ICAS Tech Manual	
Are any critical system errors shown in the system log?	ICAS Tech Manual	
Ensure data for at least two routes from actual rounds	ICAS Tech Manual	
Ensure data from Data Acquisition devices is being received as required	ICAS Tech Manual	
Verify Demand Data is received and processed accurately	ICAS Tech Manual	
Verify database data is received and processed accurately	ICAS Tech Manual	
Ensure router connections are operating properly	ICAS Tech Manual	
Ensure remote demand data and database data are available to be viewed.	ICAS Tech Manual	
Verify all required system links are available	ICAS Tech Manual	
Verify all ICAS printers are operational	ICAS Tech Manual	
Verify picture book is available for vibration checks	ICAS Tech Manual	
Verify vibration data is being taken per PMS	ICAS Tech Manual	
Verify vibration disc are installed on all equipment	ICAS Tech Manual	
Conduct vibration surveys on selected equipment during the full power demonstration	ICAS Tech Manual	
Inspect all cabinet air filters	MIP 2020 (M-3)	
Inspect all ICAS computer equipment	MIP 2020 (A-1R)	
Inspect computer internal shocks and fans	MIP 2020 (M-3)	

MAIN PROPULSION UNDERWAY PHASE AGF

TEAM ARRIVAL

Component/Sub-Component	Proposed Procedure	Accepted Procedure
Check applicable equipment for correction of deficiencies.		
Tour space, ensure ready for sea.		

MISCELLANEOUS

Component/Sub-Component	Proposed Procedure	Accepted Procedure
Inspect Oil Lab, sampling equipment	NSTM 220	
Complete Open and Inspect List and give a copy to the Engineer Officer.		

CHELANT TREATMENT SYSTEM

Component/Sub-Component	Proposed Procedure	Accepted Procedure
Inspect Spill Locker and inventory		
Inspect hydrazine locker		
Inspect injection cabinet		
Inspect chelant treatment tank and associated equipment		
Inspect eyewash station		

DEMONSTRATIONS

Component/Sub-Component	Proposed Procedure	Accepted 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.		
Demonstrate boiler flex test (all boilers will be flexed prior to Full power.)		
Demonstrate fuel oil purifier (s) operation	EOSS/PMS	
Demonstrate purifier (s) emergency stop capability	EOSS/PMS/Tech manual	