The **Examination Checklist (EC)** is a "universal form." This form may be used for all vessel-types. It is an optional form added to this guidance for convenience. Companies may design their own checklists.

In order to prepare the form, the Company SIP Agent will:

- Blackout completely those ICR items that do not apply to the vessel in question.
- Note whether or not the item was found satisfactory in the appropriate column (OK/NOT OK)
- Make comments on the inspected item in the Comments column. Extended comments may be made on additional paper/ another journal/other record, noting that fact on the EC.
- Items found unsatisfactory (NOT OK) may require a Correction Report (CR) to be filed.

➔ An example of a completed EC form is provided on the next page.

CAVEAT: Under no circumstances is the list contained here to be considered complete for all vessels that may be enrolled in SIP. It is provided as a template only. The EC should be modified as necessary to include all vessel systems required to be inspected. This would include relevant sections of Titles 33, 46, and 49 CFR, and amplifying policy or regulations, such as IMO Conventions, Treaties, Navigation and Inspection Circulars (NVIC), The Marine Safety Manual, and Official Coast Guard Policy Letters. These documents should be reviewed periodically for currency and revised as the underlying regulations or policy changes.

VESSEL NAME: M/V SIP EC EXAMPLE **O.N.:** D123456 **DATE:** 17OCT98

A. PAPERWORK—INCLUDING FORMS, NOTICES, PUBLICATIONS & CREW REQUIREMENTS	OK	NOT OK	DATE	COMMENTS
~~01 Ensure the following certificates are on board and valid~~	~~JB~~			
~~a) Certificate of Inspection~~				
~~b) FCC Certificate/license~~				
~~c) COFR~~				
~~d) Certificate of Documentation~~				
~~e) Stability Letter~~				
~~f) Officers License~~				
~~g) Vessel Action Plan available~~				
~~02 Verify the following publications are on board~~				
~~a) Navigation Rules~~				
~~b) Coast Pilot~~				
~~c) 46CFR166.199~~				
~~0~~				
~~0~~				
~~0~~				
~~e) CG-2832: Vessel Inspection Record~~				
~~f) CG-3372: Oil Pollution~~				
~~g) Stability Letter~~				
~~06 Vessel manning~~				
~~a) Number of officers and unlicensed crew required~~				
~~b) Licenses valid, endorsed, posted~~				
07 Obtain the following	JB		17.10.98	
a) Fire extinguishing service report	JB		17.10.98	
b) Liferaft servicing report	JB		17.10.98	
08 Placards, Notices, and Markings		JB	17.10.98	
a) Passenger notices	JB		17.10.98	
b) Markings: Conspicuous and legible		JB	17.10.98	PFD Lockers' markings obscured. CR issued.

- In this example, only ICR Items A.07 and A.08 are being reviewed at this time.
- The vessel personnel assigned inspection responsibility initials the appropriate box (OK or NOT OK), fills in the date of the inspection, and notes amplifying information in the Comments column.
- If a CR is written on the item, it should be mentioned in the Comments column.
- As an optional form, this record will not be typically taken by the USCG Marine Inspector, though the Inspector may ask to review the documentation in order to ascertain how the periodic company conducted inspections are managed.
- A copy of the EC should be maintained in the company vessel records. All pertinent information must be transferred to the official ISV and CR forms.

VESSEL NAME: **O.N.:** **DATE:**

A. PAPERWORK—INCLUDING FORMS, NOTICES, PUBLICATIONS & CREW REQUIREMENTS	OK	NOT OK	DATE	COMMENTS
01 Ensure the following certificates are on board and valid				
a) Certificate of Inspection				
b) FCC Certificate/license				
c) COFR				
d) Certificate of Documentation				
e) Stability Letter				
f) Officers License				
g) Vessel Action Plan available				
02 Verify the following publications are on board				
a) Navigation Rules				
b) Coast Pilot				
c) 46CFR166-199				
03 SOLAS Forms				
a) Plans posted				
1. General arrangement				
2. Fire control plan				
b) Rules and Regs for class of vessel				
d) Markings: Conspicuous and legible				
04 Following on board:				
a) Pollution/Marpol Placard				
b) Waste management plan				
05 Coast Guard Forms				
a) CG-809: Station bills & drills				
b) CG-811: Life saving signals & instructions				
c) CG-841: Certificate of Inspection				
d) CG-848: Station Bill				
e) CG-2832: Vessel Inspection Record				
f) CG-3372: Oil Pollution				
g) Stability Letter				
06 Vessel manning				
a) Number of officers and unlicensed crew required				
b) Licenses valid, endorsed, posted				
07 Obtain the following				
a) Fire extinguishing service report				
b) Liferaft servicing report				
08 Placards, Notices, and Markings				
a) Passenger notices				
b) Markings: Conspicuous and legible				

B. LIFESAVING EQUIPMENT				
01 Inspect Life Preservers				
a) Properly equipped with reflective tape				
b) Approved for intended service				
c) PFD Lights				
d) Properly Marked				
e) Physically serviceable				
f) KAPOK pliability				
g) Properly stowed & labeled				
h Donning instruction				
i) Adequate number on board and proper % child's jackets stowed separately				
02 Inspect Ring Buoys				
a) Approved for intended service				
b) Free of cracks and weathering				
c) Vessel names on each				
d) Sufficient number onboard				
e) Properly mounted				
f) Correctly equipped w/waterlight and line				
03 Inspect Rescue Boats				
a) Maintained in serviceable condition				
b) Stowed in proper location				
c) Can be readily launched by davit/hand				
d) Release mech. is in good condition				
e) Required equipment in boat				
04 Inspect Life Floats & Buoyant Apparatus				
a) Stowed in accordance with applicable regulations, using proper method of securing and floatfree link				
b) Water lights and reflective tape are installed as required				
c) Body of unit in good condition, pendents and netting in serviceable condition				
d) Marked in accordance with applicable regulations				
05 Inspect Inflatable Life Rafts				
a) Due for annual servicing				
b) Last servicing date at approved facility				
c) Properly secured in cradle designed for them				
d) Hydrostatic released require servicing where installed				
06 Life Boat & Launching Davits				
C. FIRE PROTECTION EQUIPMENT				
01 Fixed CO2 System				
02 Halon System				
03 Semi-Portable Equipment				
04 Portable Fire Fighting Equipment				
05 Fire Main & Fire Stations				
06 Fire Detection System				
07 Fire Dampers & Remote Shutdowns				
08 Sprinkler System				
09 Fire Control Plan				
10 Fire Axes				
11 Fire Bucket				

12 Galley Hood Extinguishing System				
D. STRUCTURAL FIRE PROTECTION				
01 Review Fire Control Plan				
02 Appropriate Class A Boundaries				
03 Proper Materials, Doors, Windows, etc.				
E. EMERGENCY EQUIPMENT				
01 EPIRB				
02 General Alarm				
03 Pyrotechnics				
04 Emergency Loudspeaker System				
05 First Aid / Medical				
F. VENTILATION				
01 Ventilation Shutdown				
02 Fuel Tank Vents				
03 Void & Water Tank Vents				
04 Galley Vents				
G. NAVIGATION EQUIPMENT				
01 Radar				
02 Magnetic Compass				
03 Depth Sounder				
04 Radio				
05 Navigation Lights				
06 Internal Communication Control				
07 Charts & Publications				
08 Dayshapes & Whistle				
09 Electronic Positioning Equipment				
10 Logbooks Maintained				
H. GROUND TACKLE				
01 Ground tackle and related equipment in satisfactory condition, including:				
a) Anchor				
b) Chain				
c) Winch and foundation				
d) Anchor chain stoppers				
e) Anchor handling davits				
02 Inspect mooring system				
a) Bitts, cleats, fairleads & winches sound				
b) Mooring lines adequate size & condition				
I. HULL,DECKS,FITTINGS&WATERTIGHT INT.				
01 Inspect watertight doors				
a) Knife edges intact and in good repair; no excessive paint build-up				
b) Gasket material installed in the channel in good condition and not painted				
c) The knife edge and channel meet as designed when the door is closed (Chalk test as needed.)				
d) The hinges and hinge bolts in good condition, no sagging of the door due to rounded out hinges or worn hinge bolts				
e) The dogs operable; grease fittings still useable				
f) The corresponding wedges that the dogs land on aren't excessively worn and that the match is adequate				
g) The quick closing gear, if installed is				

operable and adequate closure is achieved				
h) The corresponding wedges that the dogs land on aren't excessively worn and that the match up is adequate				
i) The quick closing gear, if installed is operable and adequate closure is achieved				
j) Any port lights installed in watertight doors use wire mesh reinforced glass				
k) A dogging wrench is provided in the vicinity of the watertight door(s).				
02 Inspect watertight bulkhead penetrations				
a) Required watertight bulkheads in tact and watertight				
b) Collision bulkhead watertight				
c) Quick closing gear achieves adequate closure				
03 Inspect stuffing tubes and sealants:				
a) Are penetrations properly sealed to maintain watertight integrity through the use devices such as stuffing tubes				
b) Stuffing tubes sealed with non-flammable sealant				
04 Inspect remote operated valves and controls and ensure that				
a) Each valve is identified as to function				
b) Each valve operates freely				
c) Reach rods or other manual means work				
05 Inspect hull and deck openings				
a) Dogs, gaskets and knife edges are maintained as previously described for watertight doors on any hull or deck openings				
06 Examine freeing ports and self bailers				
07 Inspect port lights				
a) Whether port lights at the main deck level have been installed				
b) Are dogs free on each shutter?				
c) Are shutters restricted in their movement stowed to closed position?				
08 Does structural configuration match approved plan				
Shell plating is inset to a significant degree? If so, are the internal members broken away?				
Inspect metallic structures externally				
a) Is significant wastage present around overboard discharges?				
b) Is wastage present along wind and water area?				
c) Is wastage present in the seam and butt welds in the hull plating?				
Examine critical joint areas				
a) Sheer strake				
b) Stringer plate				

c) Center vertical keel				
d) Hatch covers				
Inspect internal spaces and structures for fractured welds, fractured structural members, deterioration, and buckled or distorted structure				
a) Deck beams, underdeck longitudinals, deck girders				
b) Side and bottom longitudinals				
c) Center vertical keel and keelsons				
d) Frames, stiffeners and brackets				
e) Ladders and rungs				
09 Evaluate steel or aluminum hulls and all accessible spaces for damage including:				
a) Wastage				
b) Fractures				
c) Upsets of shell plate				
d) Deformed framing or stiffeners				
e) Evaluate proposed repairs				
f) Unauthorized/improper repairs or modifications				
10 Evaluate FRP hulls and all accessible spaces for damage including:				
a) Loose or wasted fasteners				
b) Mechanical damage				
c) Blistering				
d) Delaminations				
e) Evaluate proposed repairs				
f) Unauthorized/improper repairs or modifications				
11 Evaluate wood hulls and all accessible spaces for damage including:				
a) Loose or wasted fasteners/keel boats				
b) Mechanical damage				
c) Marine borer damage				
d) Loose caulking/sprung planks				
e) Evaluate proposed repairs				
f) Rot/lack of ventilation in closed spaces				
g) Unauthorized/improper repairs or modifications				
12 Ensure markings are legible				
J. ACCOMMODATIONS/RELATED SPACES				
01 Inspect passenger and crew accommodations				
a) Space for passengers				
b) Toilet facilities				
c) Means of escape				
d) Separation from machinery & fuel tank				
e) Ventilation				
02 Inspect heating and cooking equipment				
a) Thermal cutouts for electric space heaters				
b) Grab rails for electric ranges				
c) LPG/CNG installed iaw regulations				
d) Stove disconnect operable/labeled				
e) Ventilation operable/remote shutdown				
f) Exhaust vent free of grease/foreign objects				

g) Portable appliances kept to a minimum/only grounded plugs used				
h) General cleanliness				
03 Compliance with pollution prevention regs				
a) Discharge of oil placard				
b) Prominent display of "Garbage Placard"				
04 Compliance with marine sanitation regs				
a) Coast Guard certified Type I or II				
b) Type III venting, discharge capacity				
05 Review emergency check-off list and instructions to passengers				
06 Inspect areas where washers and dryers are installed				
a) Dryer unit properly vented and no fire hazard due to lint buildup				
b) Properly wired				
c) Units securely mounted				
07 Inspect berthing accommodations				
a) Spaces provided of size required by regulations				
b) Number of berths provided exceeds that allowed by OCMI policy				
c) Proper seating available for PAC's on vessels whose voyages are limited by certificate of inspection to set time periods				
d) Lockers of proper size provided for each berth				
e) Screens provided for ventilation ports on non-air-conditioned vessels				
f) Mechanical ventilation/ air conditioning systems, where required and operating properly				
g) Adequate number of toilets and washrooms provided for number of persons in crew specified on COI kept in good repair and sanitary condition				
h) Lights provided for each berth				
i) Hot water piping within the space properly lagged				
j) Electrical hazards exist				
k) Two means of escape provided from each berthing space and other areas where personnel would normally be employed				
08 Inspect mess deck spaces				
a) Reasonable sanitation standards met				
b) No excess grease buildup				
c) Chill boxes operable and clean				
d) Escape latches or alarm systems on the chill boxes functioning properly				
09 Inspect paint locker				
a) Required fire protection equipment provided iaw applicable regulations and vessel's approved fire safety plan				
b) Constructed of metal				
c) Space well vented and means provided to secure ventilation				

10 Inspect ladders, rails and embarkation aids				
a) "Rails" are provided on accommodation ladders, when used				
b) "Efficient" rails provided on decks & bridges of proper height and configuration				
K. EMERGENCY DRILLS				
01 When observing drills:				
a) Maximum crew participation				
b) Crew members to proper stations				
c) During fire drills, fire pump(s) started and hoses lead out				
d) Designated person in charge conversant with duties and procedures				
e) Emergency equipment broken out for drills and person assigned to use gear present, properly equipped and familiar w/duties				
f) For fire drills, communications est. between control center and source of emergency				
g) Proper alarm sounded on general alarm				
h) All alarm bells function properly				
i) Visual signals in machinery spaces				
j) Escapes are clear and unobstructed				
k) Crew members report to stations wearing PFDs, cap and shoes				
l) For boat drills- person in charge of each boat or raft has muster list				
m) For boat drills- communication is est. between bridge and boat deck				
n) Rescue boats: gear is operable and crew is familiar with use				
o) Rescue boats with oars, crew familiar				
p) Crew competent in readying vessel for launching (belly gripes removed, retaining pin on counter weight removed, etc.)				
q) Rescue boat can be safely and efficiently released from falls by boat crew				
02 Properly logged drills:				
L. FORMS, NOTICES, PUBLICATIONS & CREW REQUIREMENTS				
01 Following on board:				
a) Pollution/Marpol Placard				
b) .Waste management plan				
02 Coast Guard/SOLAS Forms				
a) CG-809: Station bills & drills				
b) CG-811: Life saving signals & instructions				
c) CG-841: Certificate of Inspection				
d) CG-848: Station Bill				
e) CG-2832: Vessel Inspection Record				
f) CG-3372: Oil Pollution				
g) Stability Letter				
h) Passenger notices				
i) Plans posted				
1. General arrangement				
2. Fire control plan				
j) Rules and Regs for class of vessel				

k) Markings: Conspicuous and legible				
03 Vessel manning				
a) Number of officers and unlicensed crew required				
b) Licenses valid, endorsed, posted				
M. STEAM POWER SYSTEMS				
01 Conduct an external examination of boiler(s) examining:				
a) Inner casing, outer casing, and wind box (bulging, distortion, etc.)				
b) Lagging				
c) Tank tops beneath the boiler(s)				
d) Condition of foundation/sliding feet				
e) Headers/handholes evidence of leakage				
f) Test automation systems				
02 Conduct a waterside examination of watertube boiler(s) including the following:				
a) Steam drum, mud drum, and headers (waterwall, superheater).				
b) Drum internals including:				
1. Dry pipe				
2. Main and chemical feed lines				
3. Desuperheater and control desuperheater				
4. Surface blow				
5. Baffle rates				
6. Tube sheet connection/ligament				
7. Connections and attachments				
8. Surface conditions (scaling, pitting, corrosion				
c) Number of tubes plugged. # =_____				
d) Headers, including:				
1. Hand hole seats				
2. Tube connections				
3. Welded connections				
4. Division plates				
5. Surface conditions				
03 Conduct a fireside examination of watertube boiler(s), examining:				
a) Brick work				
b) Corbel				
c) Waterwall, screen, generating and floor tubes (if fitted); sagging, blistered, etc.				
d) Superheater tubes and support				
e) Burner				
f) Amount of slag accumulation				
g) Uptake and economizer				
h) Soot blowers				
i) Air heaters				
04 Conduct a fireside and external exam of firetube boilers, examining:				
a) Furnace (distortion)				
b) Combustion chamber (crown sheet, wrapper sheet, back sheet)				
c) Boiler shell and heads				
d) Stay bolts				
e) Riveted seams & rivets				
f) Boiler saddles and foundations				
g) Plating in way of mountings (wastage				

due to leaking valves and fittings)				
h) Cracks in the plating due to flexing of the heads or leakage				
I) Wastage around manhole gaskets				
j) Note heat number and condition of fusible plug				
05 Conduct a waterside examination of firetube boilers and ensure condition of the following is satisfactory				
a) Straps and rivets attaching the heads to shell (if applicable)				
b) Necked stays, cracks				
c) Tubes (Pitting- determine general depth and tube type)				
d) Internal surface conditions (scaling, pitting, corrosion, erosion)				
06 Conduct required mountings inspections as follows:				
a) Mountings open including:				
1. Determination of the valves to be opened				
2. Inspection of seat, disc, stem, integrity of valve body, condition of stem packing gland and gland ring bolts				
b) Mountings removed, studs examined including inspection as per mountings open and				
1. Determination of valves to be removed for inspection of pressure piping between valve and boiler				
2. Representative studs removed from valve flanges for inspection to deter-mine				
(i) Integrity of studs due to corrosion, neck down, deformation and thermal stress				
(ii) Proper grade installed for system pressure and temperature				
07 Conduct a hydrostatic test of the boilers and determine that:				
a) Test conducted in conjunction with required fireside exam				
b) Appropriate test pressure (annual, quadrennial, repair)				
c) Water temperature is within limits				
d) Test pressure is achieved and held for the required time period				
e) Blanks are installed in steam lines where necessary so a situation does not arise where a valve separates steam on one side from water on the other				
f) Tube joints, header connect, handhole plates tight				
g) Main steam piping is tested from the boiler drum to the throttle valve				
h) All steam piping subject to main boiler pressure and greater than 3 inches nominal size is tested				
08 Witness the lifting and reseating of drum safety valves including pilot operated				

valves:				
a) Determine MAWP				
b) Ensure that the drum safety valve is set no higher than MAWP but above normal steaming range				
c) Superheater safety valve set correctly				
d) Ensure that the "blow down" falls within 2-4% of the set pressure for each valve				
e) Ensure that there is no simmering or chattering				
f) Seal valves				
g) Test hand relieving gear				
h) Ensure integrity of escape piping				
09 Inspect main and auxiliary condensate and sea water circulating systems				
a) Determine condition of sea water piping, valves and expansion joints				
b) Determine condition of main and auxiliary condensers				
c) Determine condition of condensate piping				
d) Witness operation of sea water circulating and condensate pumps				
10 Inspect feedwater system				
a) Determine condition of piping and valves				
b) Ensure that two methods of determining boiler water levels are operable				
c) Witness operation of feed pumps				
d) Examine make up feed evaporator externally, if installed				
e) Test operation of feedwater regulators if not part of automation				
f) Externally examine feedwater headwaters				
11 Inspect main engines				
a) Determine condition of foundations				
b) Check governor operation				
c) Throttles				
d) Instrumentation operable				
e) Lube oil systems				
12 Insulation provided to reduce personnel hazard				
N. DIESEL POWER SYSTEMS				
01 Witness tests and state if results are satisfactory:				
a) Overspeed trips				
b) Low lube oil alarms and shutdowns (where installed and/or required)				
c) High coolant temperature alarm (where installed and/or required)				
02 Inspect the diesel installation and assembly, paying particular attention to the following:				
a) Crankcase explosion covers				
b) Fuel and lube oil fittings (check for leaks)				
c) Instrumentation				

d) Grating and rails around engine				
e) Guards over rotating machinery				
f) Exhaust system:				
1. Leaks				
2. Lagging				
3. Proximity of combustible material or walkways				
4. Water cooling system (if installed)				
5. Bulkhead penetrations				
g) Engine foundations and tank top's structural condition				
h) Air intakes				
i) Crankcase vents (clear)				
03 Inspect air starting systems				
a) Pumps and strainers				
b) Piping				
c) Compressors				
04 Inspect hydraulic starting systems				
a) Pumps and strainers				
b) Piping				
c) Accumulators				
05 Inspect electric starting systems				
06 Inspect fuel systems				
a) Integral/independent tanks of acceptable material IAW regulations				
b) Material condition of tanks, fittings, piping and hoses satisfactory. (Conduct pressure test as necessary if excessive corrosion or leakage)				
c) Metallic fill pipe and tank properly grounded				
d) Flexible non-metallic hose used on fill pipe is of a suitable type and double clamped				
e) Flexible non-metallic hose used in supply piping is of an approved type iaw regulations				
f) Flame screens properly installed in tank vent lines with proper mesh size iaw regulations				
g) Fuel tank space properly vented				
h) Test remotely operated fuel supply shutoff valves				
O. UNFIRED PRESSURE VESSELS				
01 Externally examine UPV's				
a) Pressure gauge				
b) Evidence of structural damage				
c) Data plate legible				
d) Foundations structurally sound				
e) Attachments secure				
02 Internally examine UPV's				
03 Hydrostatic testing to 1 ½ MAWP				
04 Witness pressure relief valve tests				
a) MAWP not exceeded				
b) Valve seats tightly				
c) Capacity not exceeded				

d) Correct valve type				
e) Hand lifting device				
P. AUXILIARY MACHINERY & EQUIPMENT LIST				
01 Determine the condition of the following components of the steering gear assembly:				
a) Insides of motor controller and switch gear boxes				
b) Mounting bolts for all equipment (vibration)				
c) Attachments, links and pins				
d) Freedom of movement and absence of any friction noises on motors and pumps				
e) ***Cleanliness*** of space (absence of fire/personnel hazards)				
02 Witness operational test of steering gear system, noting the following:				
a) Testing of main, secondary and local control stations on both pumps (where provided)				
b) Testing of follow-up and non-follow-up system (where provided)				
c) Switching from pilothouse to local control steering stations using posted instructions				
d) Rudder angle indicators are installed at each station				
e) Rudder movement at each station and on each system is within the time limits specified by the regulations				
f) Synchro-steering repeaters, where installed have the same readings				
g) Indicator lights, audible and visual alarms, and emergency lighting at steering stations operational				
h) Operating instructions posted at the emergency steering stations				
i) Communications between the bridge and the emergency steering station				
03 Inspect fuel oil service and transfer system				
a) Determine the condition of piping and manifolds				
b) Determine condition of F.O. HP and LP strainers				
c) Ensure F.O. pump relief valves discharge to suction side of F.O. pumps				
d) Ensure no excessive F.O. leakage exists				
e) Witness operation of F.O. pumps				
f) Ensure instrumentation is operable				
g) Test remote operated F.O. system valves				
h) Determine condition of fuel oil tank vent lines and flame screens				
i) Test F.O. pump remote shut down				
04 Inspect bilge pumps installation, piping and valves				
a) Is system capable of pumping from any watertight compartment except ballast, oil and water tanks				

b) Does standing water drain to suctions				
c) Bilge manifold has independent bilge suction control and is properly marked				
d) Are suction strainers installed?				
f) Ensure instrumentation is operable				
05 Examine refrigeration/air conditioning machinery				
a) Rotating machinery guards				
b) Piping				
c) Wiring				
d) Pressure vessels				
06 Examine potable water system:				
a) Dedicated tanks: treated or coated				
b) Tanks ventilated with insect screens installed				
c) Water pump(s) and pressurization system operable				
d) Pressure tanks installed				
Q. ELECTRICAL SYSTEMS				
01 Inspect switchboards and confirm the following installations conform to regulations:				
a) Nonconductive mat on deck in front of board				
b) Nonconductive rails on board face				
c) Dripshield on board's top, unless board is watertight				
d) Ground detection indicators working with no grounds indicated				
e) Meters calibrated and working				
f) Synchronizing controls working				
g) Identification for controls and meters				
h) Area dry and clean				
i) Working space is provided iaw regulations				
j) Overcurrent protection properly labeled				
02 Inspect ship's service generators:				
a) Are generators of a size or arrangement which require overspeed trips?				
b) Are the results of the operational test of the overspeed trips and alarms within specified limits				
c) Test reverse power/current trips where installed for paralleling generators				
d) Are guards installed around rotating or live machinery?				
e) Is discoloration from overheating apparent				
f) Are filters on air intakes (where installed) working to keep internals free from dust and dirt				
g) Do winding appear oily or dirty				
h) Are odd bearing noises present				
i) Is voltage regulated within limits specified by the CFR				
j) Are the diesel low lube oil pressure trip (where installed) and alarms working				
k) Are high temperature detectors and alarms for AC generators working (where installed)				
l) Are nameplates properly in place				

03 Inspect emergency generator and determine:				
a) The means of starting provided				
b) That the following alarms/shutdowns are operable:				
1. Low lube oil pressure				
2. High cooling water temperature				
3. Overspeed				
4. Fixed firefighting system (if installed) shutdown				
c) That the generator auto-start circuit functions and the generator can power its full rated load within 20 seconds and accept the final emergency load within 45 seconds of loss of the normal power supply				
d) That the independent fuel supply is provided with remote shut-off valve installed and properly marked				
04 Inspect emergency batteries (where installed) and determine:				
a) Size of installation and required ventilation				
b) If the battery box is properly lined				
c) If the batteries are secure in the trays				
d) If adequate space is provided over the cells				
e) If a means of charging is provided				
f) If conductor overcurrent protection is provided (where required)				
g) Ventilation/charger interlocked (if applicable)				
05 Inspect motor controllers and determine:				
a) If units are installed in suitable cases, or if open type, within limited access Attachment				
b) If wearing parts are accessible				
c) If controls are marked for each motor served				
d) If a wiring diagram is affixed to the controller Attachment				
e) If motor controllers are dripproof/ watertight (as applicable)				
06 Are lighting systems and fixtures adequate and meet requirements for:				
a) Passageways and public areas				
b) Machinery spaces				
c) Passenger and crew spaces				
d) Berth lights				
e) Exit lights				
f) Navigation				
g) Signaling lights				
h) Lifeboats and liferaft embarkation stations				
i) Emergency lighting				
07 Do receptacle outlets have grounding poles and are they properly grounded ?				
08 Inspect distribution panels and determine:				
a) Is circuit directory provided				

b) Are the amperage ratings of the protective devices iaw the required circuit directory				
c) Are panel board blanks installed where necessary				
09 Survey electrical cable installation and determine:				
a) Are vertical and horizontal supports properly spaced				
b) Do the radius of the bends exceed CFR specifications				
c) Are portable cables used for unauthorized purposes				
d) Are acceptable materials used				
e) Do hazardous conditions exist (jury rigs, dead end cables, slices, etc.)				
f) Shore power cables in good condition and watertight				
10 Test internal communication and control systems. Determine whether the following systems work:				
a) General alarms (bells and contractors)				
b) Sound powered phones to all required locations				
c) Engine order telegraph and wrong direction alarm				
d) Public address system (where installed)				
e) Engineer's assistance needed alarm				
11 Engineer's Call & Alarm System				
a) Engineer's call system (where installed)				
b) Fire detection/fire alarm (where installed)				
c) Refrigerated space alarm system				
12 Inspect components installed in designated hazardous locations and ensure explosion proof installation:				
a) In paint locker				