

INSPECTION CRITERIA REFERENCE	THE STREAMLINED INSPECTION PROGRAM (SIP): PROGRAM GUIDANCE Subchapter T - Small Passenger Vessels	Section: VI.E Page: Instruction
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The **Inspection Criteria References (ICR)** are grouped in pre-developed forms by the subchapter in Title 46 applicable to the vessel the Vessel Action Plan (VAP) is being developed for. They are comprised of four sections.

- **Section One** identifies the System, Subsystem, and the ICR Number for referencing the item.
- **Section Two** identifies the authorities—Who is the authorized inspector, what the specific reference for requiring the inspection item, and what the inspection frequency is for that item.
- **Section Three** provides the inspection criteria—how to determine if the item is in compliance.
- **Section Four** identifies what actions are required if the item is found deficient.

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

- Delete those ICR items that do not apply to the vessel in question.
- Add ICRs for vessel systems that are not provided for in the subchapter specific package, but remain required elements for the vessel inspection program.
- Note all changes on the Record of Changes 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. ICRs are to be provided for 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.

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STREAMLINED INSPECTION PROGRAM

INSPECTION CRITERIA REFERENCE

(ICR)

For U.S. inspected passenger vessels
(Subchapter T)

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SYSTEM: PAPERWORK
SUBSYSTEM: REQUIRED DOCUMENTS

ICR NUMBER: A
01

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 176.302, 176.306, 184.502, 184.702, 185.402

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

Verify that the following documents are on board and current:

- a. Certificate of Inspection
 - b. FCC Certificate/ License
 - c. Certificate of Financial Responsibility
 - d. Certificate of Documentation or Certificate of Numbers issued by the State
 - e. Stability Letter
 - f. Officers License's
 - g. Vessel Action Plan available
 - h. SOLAS Passenger Ship Safety Certificate
-

DEFICIENCY ACTION

OBTAIN CURRENT DOCUMENT AND PLACE ONBOARD PRIOR TO OPERATION.

SYSTEM: PAPERWORK
SUBSYSTEM: REQUIRED PUBLICATIONS

ICR NUMBER: A
02

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 184.420

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

Verify that the following publications or appropriate extracts are onboard and currently corrected for the intended operating area as determined by the OCMI:

- a. Navigation Rules
 - b. Coast Pilot
 - c. Charts
 - d. Notice to Mariners
 - e. Tide Tables
 - f. Current Tables
 - g. Light Lists
-

DEFICIENCY ACTION

OBTAIN CURRENT PUBLICATIONS AND PLACE ONBOARD.

SYSTEM: PAPERWORK
SUBSYSTEM: SERVICE REPORTS

ICR NUMBER: A
03

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 176.810, 185.730

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

Verify the following annual servicing reports:

- a. Fire extinguishing equipment servicing.
 - b. Life raft servicing
 - c. Hydrostatic release unit servicing
-

DEFICIENCY ACTION

CONTACT SERVICING COMPANY AND HAVE SYSTEM SERVICED PRIOR TO CARRIAGE OF PASSENGERS.

SYSTEM: LIFESAVING EQUIPMENT
SUBSYSTEM: LIFE PRESERVERS (PFD)'S AND STORAGE

ICR NUMBER: B
01

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 176.808, 180.71, 180.75, 180.78, 185.516, 185.604

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

- a. Retroreflective material on both sides, at least 31 sq. inches on each side.
 - b. Type I, CG approved.
 - c. Verify PFD lights work. If chemical type, check expiration date. If battery type, check battery expiration date, lens and seal.
 - d. Vessel name clearly labeled on each PFD.
 - e. Check straps, snaps, jacket fabric for signs of wear, deterioration.
 - f. Verify KAPOX pliability. If other type, i.e. cork, contact your local OCMI for inspection criteria.
 - g. Stowed in proper location & labeled.
 - h. Wearing instructions posted.
 - i. Adequate number on board. 1 for every person allowed by the COI.
 - 10% of total is required to be children's PFD's or
 - 5%, were all extended size PFDs are used on board; unless adult passengers only
-

DEFICIENCY ACTION

REMOVE DEFICIENT PFD FROM THE VESSEL, AND REPLACE WITH A SERVICEABLE PFD. IF UNABLE TO REPLACE, IMMEDIATE NOTIFICATION OF COGNIZANT OCMI REQUIRED, AND PASSENGER TOTAL REDUCED TO NUMBER OF SERVICEABLE PFD'S ONBOARD.

SYSTEM: LIFESAVING EQUIPMENT
SUBSYSTEM: RING BUOYS

ICR NUMBER: B
02

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 180.70, 185.604

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

- A. Verify proper size onboard: 20" for vessel less than 26' or 24" for all others
 - B. Verify free of cracks and weathering.
 - C. Vessel name stenciled on each.
 - D. Proper number onboard. Total count of all including those with lights and lines.
 - E. Ensure properly mounted in racks for easy deployment.
 - F. Check operation of attached waterlights. Check battery expiration date and replace as necessary.
-

DEFICIENCY ACTION

REPLACE DEFICIENT ITEM. ENSURE IT IS STENCILED AND PROPERLY STOWED. IF UNABLE TO CORRECT DEFICIENCY PRIOR TO CARRIAGE OF PASSENGERS, NOTIFY COGNIZANT OCMI.

SYSTEM: LIFESAVING EQUIPMENT
SUBSYSTEM: RESCUE BOAT AND LAUNCHING DAVIT

ICR NUMBER: B
03

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative
REFERENCES: 46 CFR 180.210, 185.520, 185.604, 185.720, 185.722, 185.724, 185.726
REGULATORY INSPECTION FREQUENCY: ANNUALLY/MONTHLY/WEEKLY

INSPECTION CRITERIA

- A. Check launching davit for signs of cracking, deterioration, structural defects.
 - B. Verify that davit and winch are operable. Ensure release hook is operational.
 - C. Inspect the hull of the rescue boat for soundness; watertight, rivets and welds, flotation.
 - D. Ensure boat plug is in place with a chain attached. Oarlocks onboard and permanently attached.
 - E. Rescue boat must have vessels name stenciled in 3" letters. Oars must also have vessels name on them.
 - F. Conduct an operational test of the rescue boat.
-

DEFICIENCY ACTION

OPERATIONAL DEFICIENCIES SHOULD BE CORRECTED ON THE SPOT. STRUCTURAL DEFICIENCIES WILL REQUIRE A WRITTEN REPAIR PROPOSAL, IMMEDIATE NOTIFICATION TO THE COGNIZANT OCMI AND NO PASSENGER BEING CARRIED UNTIL THE SITUATION IS CORRECTED.

SYSTEM: LIFESAVING EQUIPMENT
SUBSYSTEM: LIFEFLOATS/BUOYANT APPARATUS

ICR NUMBER: B
04

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 180.137, 180.175, 180.200, 185.604

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

- A. Correct number & capacity in accordance with COI.
 - B. Stowed in tiers no more than 4 high. When stowed in tiers, spacers installed between each life float or buoyant apparatus.
 - C. Stowage is such that units will float free. Acceptable weak link is attached.
 - D. Painter is in good condition, secured to float and weak link. Weak link is attached to deck.
 - E. Stenciled with vessel name in 3" letters and total capacity in 1.5" letters.
 - F. Body of unit is in good condition, life lines and netting are in serviceable condition.
 - G. Each lifefloat shall be equipped with 2 paddles, water light, lifeline, pendants and a painter. Each buoyant apparatus shall be fitted with a water light, lifeline, pendants and a painter.
-

DEFICIENCY ACTION

IMMEDIATELY CORRECT DISREPPANCY. IF UNABLE TO DO SO PRIOR TO CARRIAGE OF PASSENGERS CONTACT COGNIZANT OCMI.

SYSTEM: LIFESAVING EQUIPMENT
SUBSYSTEM: INFLATABLE LIFERAFTS

ICR NUMBER: B
05

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative
REFERENCES: 46 CFR 180.130, 180.175, 180.200, 185.518, 185.722, 185.730, 185.740
REGULATORY INSPECTION FREQUENCY: ANNUALLY/MONTHLY

INSPECTION CRITERIA

- A. Verify correct number & capacity in accordance with COI.
 - B. Verify annual servicing is current and done by approved servicing facility.
 - C. INSTALLATION
 - 1. Sea painter in good condition; properly secured.
 - 2. Support foundations not wasted; matches raft container, cleat attached.
 - 3. Container bands punched.
 - 4. Weak link secured to vessel and painter. Properly rigged for float free operation.
 - 5. Launching Instructions posted; match raft type and capacity; readily visible.
 - D. HYDROSTATIC RELEASES
 - 1. Hydrostatic release unit tested and marked (annual for metal releases, 2 years for rope release).
 - 2. Properly tensioned in accordance with manufacturers specifications.
 - 3. Clear of any obstructions.
 - 4. Manual release accessible and facing inboard.
 - E. EMBARCATION ARRANGEMENTS
 - 1. Embarkation ladder is approved.
 - 2. Ladder ropes are not deteriorated.
 - 3. Ladder rungs are rot cracked or broken.
-

DEFICIENCY ACTION

IF PAST SERVICING DATE, REPLACE WITH CURRENT LIFE RAFT. IF UNABLE TO DO SO PRIOR TO THE CARRIAGE OF PASSENGERS, CONTACT THE COGNIZANT OCMI.

SYSTEM: FIRE PROTECTION EQUIPMENT
SUBSYSTEM: FIXED CO2 SYSTEM

ICR NUMBER: C
01

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 176.810, 181.410, 185.612

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

- A. Servicing report current; within last year. All cylinders & flexible loops (12 yrs) within hydro requirement.
 - B. Diffusers are clear of obstructions.
 - C. Alarms in protected spaces are labeled, warning labels posted.
 - D. Cable pulls are marked.
 - E. Instructions are posted.
 - F. Cylinder brackets fixed and in good condition.
 - G. Cylinders free of corrosion.
 - H. Closure for protected spaces; provided; conduct operational test.
 - I. ventilation and engine shutdowns operational.
 - J. Witness operational test of system by servicing company.
-

DEFICIENCY ACTION

CONTACT COGNIZANT OCGMI PRIOR TO CARRIAGE OF PASSENGERS; CONTACT SERVICING COMPANY FOR REPAIRS.

SYSTEM: FIRE PROTECTION EQUIPMENT
SUBSYSTEM: FIXED HALON SYSTEM

ICR NUMBER: C
02

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 176.810, 181.410, 181.420, 185.612

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

- A. Servicing report current; within last year. All cylinders & flexible loops (12 yrs) within hydro requirement.
 - B. Diffusers are clear of obstructions.
 - C. Alarms in protected spaces are labeled, warning labels posted.
 - D. Cable pulls are marked.
 - E. Instructions are posted.
 - F. Cylinder brackets fixed and in good condition.
 - G. Cylinders free of corrosion.
 - H. Closure for protected spaces; provided; conduct operational test.
 - I. Ventilation and engine shutdowns operational.
 - J. Witness operational test of system by servicing company.
-

DEFICIENCY ACTION

CONTACT COGNIZANT OCGMI PRIOR TO CARRIAGE OF PASSENGERS; CONTACT SERVICING COMPANY FOR REPAIRS.

SYSTEM: FIRE PROTECTION EQUIPMENT
SUBSYSTEM: SEMI-PORTABLE FIRE EXTINGUISHERS

ICR NUMBER: C
03

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 176.810, 181.500, NFPA 10

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

- A. Approved type V, frame support welded or otherwise permanently attached to the bulkhead or deck.
 - B. Cylinder corrosion free.
 - C. Discharge hose is flexible; no signs of wear, deterioration; discharge nozzle intact.
 - D. Hydro test dates current: 5 yrs for CO₂, 6 yrs for dry chemical.
 - E. Location in accordance with table 181.500(a).
 - F. Verify written documentation of annual servicing.
-

DEFICIENCY ACTION

REPLACE WITH SERVICEABLE EXTINGUISHERS PRIOR TO THE CARRIAGE OF PASSENGERS.

SYSTEM: FIRE PROTECTION EQUIPMENT
SUBSYSTEM: PORTABLE FIRE EXTINGUISHERS

ICR NUMBER: C
04

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 176.810, 181.500, 181.520, NFPA 10

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

- A. Approved type, mounted in approved bracket.
 - B. Cylinder corrosion free.
 - C. Discharge hose is flexible; no signs of wear, deterioration; discharge nozzle intact.
 - D. Hydro test dates current: 5 yrs for CO₂, 12 yrs for dry chemical.
 - E. Location in accordance with table 181.500(a).
 - F. Verify written documentation of annual servicing.
-

DEFICIENCY ACTION

REPLACE WITH SERVICEABLE EXTINGUISHERS PRIOR TO THE CARRIAGE OF PASSENGERS.

SYSTEM: FIRE PROTECTION EQUIPMENT
SUBSYSTEM: FIRE MAIN SYSTEM

ICR NUMBER: C
05

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 181.300, 181.310, 181.320, NVIC 6-72

REGULATORY INSPECTION FREQUENCY: ANNUALLY/QUARTERLY

INSPECTION CRITERIA

- A. operate fire pumps; operating properly?
 - 1. No excessive leaks.
 - 2. Foundation/ pump and motor secure.
 - 3. Shaft bearing- no play.
 - 4. Coupling guard in place.
 - 5. Remote operation.
 - B. All required hoses onboard, compatible threads, satisfactory condition.
 - C. Fire hydrant- Hose at hydrant and attached, spanner wrench, nozzle, low velocity fog applicator where applicable. All equipment compatible.
 - D. Hoses correct length (50') and size, based on COI.
 - E. Satisfactory hydrostatic test of hoses to fire pump shutoff head pressure.
 - F. Check pressure gauge on discharge side of pump to make sure it is functioning properly.
 - G. Verify all valves at fire hydrants are operable.
 - H. Verify compatibility of equipment at each hydrant.
 - I. Determine that relief valves are set properly and discharge to acceptable location if installed.
-

DEFICIENCY ACTION

IF UNABLE TO SATISFY OPERATION REQUIREMENTS, CONTACT COGNIZANT OCMI PRIOR TO CARRIAGE OF PASSENGERS.

SYSTEM: FIRE PROTECTION EQUIPMENT
SUBSYSTEM: FIRE DETECTION SYSTEM

ICR NUMBER: C
06

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 181.400

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

- A. Witness operational test of fire detection system.
 - B. Assure all sensors are free of obstruction and functioning.
 - C. Verify alarms and indicators are functioning correctly; visible and audible from the pilot house or fire control station.
 - D. Verify audible alarms in engine room are functioning properly, if provided.
 - E. Ensure engine room, pilothouse , and fire control station alarms are conspicuously marked in clearly legible letters.
 - F. Manual alarm systems functioning properly.
-

DEFICIENCY ACTION

REPLACE/REPAIR DEFICIENT ITEMS. IF A DEFICIENCY CANNOT BE CORRECTED,
NOTIFY THE COGNIZANT OCMI PRIOR TO THE CARRIAGE OF PASSENGERS.

SYSTEM: FIRE PROTECTION EQUIPMENT
SUBSYSTEM: FIRE DAMPERS AND REMOTE SHUTDOWNS

ICR NUMBER: C
07

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 181.410, 181.465, 182.465

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

- A. Verify manual operation of all fire dampers.
 - B. Test remote operation of all remote ventilation shutdowns.
-

DEFICIENCY ACTION

REPLACE/REPAIR DEFICIENT ITEMS. IF A DEFICIENCY CANNOT BE CORRECTED,
PRIOR TO THE CARRIAGE OF PASSENGERS, NOTIFY THE COGNIZANT OCMI.

SYSTEM: FIRE PROTECTION EQUIPMENT
SUBSYSTEM: SPRINKLER SYSTEM

ICR NUMBER: C
08

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 181.400

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

- A. Remove several sprinkler heads in each zone to inspect the general condition of the head and piping.
 - B. Test operation of the sprinkler system from each zones test station.
-

DEFICIENCY ACTION

REPLACE/REPAIR DEFICIENT ITEMS. IF A DEFICIENCY CANNOT BE CORRECTED, PRIOR TO THE CARRIAGE OF PASSENGERS, NOTIFY THE COGNIZANT OCMI.

SYSTEM: FIRE PROTECTION EQUIPMENT
SUBSYSTEM: FIRE AXES

ICR NUMBER: C
10

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 181.600

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

- A. Proper number of fire axe(s) in accordance with Certificate of Inspection.
 - B. Stowed at the primary operating station.
-

DEFICIENCY ACTION

REPLACE/REPAIR DEFICIENT ITEMS. IF A DEFICIENCY CANNOT BE CORRECTED,
PRIOR TO THE CARRIAGE OF PASSENGERS, NOTIFY THE COGNIZANT OCMI.

SYSTEM: FIRE PROTECTION EQUIPMENT
SUBSYSTEM: FIRE BUCKET

ICR NUMBER: C
11

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 181.610

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

- A. Proper number of fire buckets; three (3) 2½ gallon buckets with lanyards.
 - B. Stenciled in contrasting color with the words "FIRE BUCKET".
-

DEFICIENCY ACTION

REPLACE/REPAIR DEFICIENT ITEMS. IF A DEFICIENCY CANNOT BE CORRECTED, PRIOR TO THE CARRIAGE OF PASSENGERS, NOTIFY THE COGNIZANT OCMI.

SYSTEM: EMERGENCY EQUIPMENT
SUBSYSTEM: EPIRB

ICR NUMBER: E
01

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 180.64, 185.604

REGULATORY INSPECTION FREQUENCY: ANNUALLY/MONTHLY

INSPECTION CRITERIA

- A. Tested monthly using visual or audio output indicator.
 - B. Stowed in a manner so that it will float free should the vessel sink & auto-activate.
 - C. Replace battery if EPIRB is used for purposes other than testing. Replace battery on or before the expiration date marked on the battery.
 - D. Vessel name shall be marked on EPIRB.
-

DEFICIENCY ACTION

REPLACE BATTERY /EPIRB AND/OR MARK ACCORDINGLY. IF A DEFICIENCY CANNOT BE CORRECTED, PRIOR TO THE CARRIAGE OF PASSENGERS, NOTIFY THE COGNIZANT OCMI.

SYSTEM: EMERGENCY EQUIPMENT
SUBSYSTEM: GENERAL ALARM

ICR NUMBER: E
02

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 183.550

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

- A. General Alarm contact makers and alarm bells are located and marked in accordance with the regulations.
 - B. Energize system from each contact maker. Ensure contact makers are all operable, ensure alarm bells are all operable and that none have been deliberately disabled.
 - C. Ensure alarm bells are sufficiently loud to be easily heard above the ambient noise of the space in which they are placed.
 - D. Ensure operation of any flashing red lights installed in addition to alarm bells.
-

DEFICIENCY ACTION

MAKE APPROPRIATE REPAIRS; IF UNABLE TO REPAIR PRIOR TO THE CARRIAGE OF PASSENGERS CONTACT COGNIZANT OCMI.

SYSTEM: EMERGENCY EQUIPMENT
SUBSYSTEM: PYROTECHNICS

ICR NUMBER: E
03

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 180.68

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

A. Verify correct number.	
Ocean, Coastwise or Great Lakes service:	Lakes, Bays and Sounds service:
<ul style="list-style-type: none">• 6 hand red & 6 hand orange smoke; or• 12 rocket parachute; or• 12 hand red; or• 6 hand red & 6 orange float; or,• combination allowed by regulation.	<ul style="list-style-type: none">• 3 hand red & 3 hand orange smoke; or• 6 rocket parachute; or• 6 hand red; or• 3 hand red & 3 orange float; or,• combination allowed by regulation.
B. The service life of the distress signals shall be stamped by the manufacture on the distress signal.	
C. The distress signals shall be stowed in a portable watertight container at the operating station or a pyrotechnic locker secured above the freeboard deck in the vicinity of the operating station.	

DEFICIENCY ACTION

REPLACE PRIOR TO OR ON EXPIRATION DATE PRIOR TO THE CARRAIGE OF PASSENGERS.

SYSTEM: EMERGENCY EQUIPMENT
SUBSYSTEM: PUBLIC ADDRESS SYSTEM

ICR NUMBER: E
04

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 184.610

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

- A. Must be audible during normal operating conditions throughout accommodations and other normally manned spaces.
 - B. Must be operable from operation station when required.
 - C. When allowed, bullhorn batteries continually maintained.
-

DEFICIENCY ACTION

MAKE APPROPRIATE REPAIRS; IF UNABLE TO REPAIR PRIOR TO THE CARRIAGE OF PASSENGERS CONTACT COGNIZANT OCMI.

SYSTEM: EMERGENCY EQUIPMENT
SUBSYSTEM: FIRST AID / MEDICAL

ICR NUMBER: E
05

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 184.710

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

- A. Verify first aid kit is approved under the series 160.041 or other standard specified by the Commandant.
 - B. Ensure "First Aid Kit is stenciled on container.
 - C. Ensure first aid kit is visible and readily available to the crew.
 - D. Ensure contents of kit are adequate.
-

DEFICIENCY ACTION

MAKE APPROPRIATE REPAIRS

SYSTEM: VENTILATION
SUBSYSTEM: VENTILATION SHUTDOWN

ICR NUMBER: F
01

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 177.600, 177.620

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

- A. If power ventilation is installed, it must be capable of being shutdown from the pilot house.
-

DEFICIENCY ACTION

REPAIR IF UNABLE TO DO SO IN A TIMELY MANNER, CONTACT COGNIZANT OCMI.

SYSTEM: VENTILATION
SUBSYSTEM: FUEL TANK VENTS

ICR NUMBER: F
02

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 182.450

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

- A. Vent line not holed or excessively corroded.
 - B. Flame screen or flame arrester is clean, in good condition and firmly attached to the vent.
 - C. Flame screen is a single screen of 30x30.
 - D. Containment is available, clean, dry and in good condition.
-

DEFICIENCY ACTION

REPAIR AS APPROPRIATE, CONTACT COGNIZANT OCMI IF UNABLE TO REPAIR IN A TIMELY MANNER.

SYSTEM: VENTILATION
SUBSYSTEM: VOID AND WATER TANK VENTS

ICR NUMBER: F
03

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative
REFERENCES: 46 CFR 177.600
REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

A. Vent line not holed or excessively corroded.

DEFICIENCY ACTION

REPAIR IN APPROPRIATE MANNER.

SYSTEM: VENTILATION
SUBSYSTEM: GALLEY VENTS

ICR NUMBER: F
04

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 177.600, 181.425

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

- A. Grease extraction hood UL listed.
 - B. Vent trunk not holed or excessively corroded.
 - C. Interior of vent free of grease.
-

DEFICIENCY ACTION

MAKE APPROPRIATE REPAIRS.

SYSTEM: NAVIGATION EQUIPMENT
SUBSYSTEM: RADAR

ICR NUMBER: G
01

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 184.404

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

- A. Examine radar for acceptable picture quality.
 - B. Verify operator controls and adjustments function properly.
 - C. Examine for excessive noise, vibration, or wear. Ensure secure mounting.
 - D. Verify controls illuminate.
 - E. Verify display at several ranges.
-

DEFICIENCY ACTION

IF RADAR REQUIRED NOTIFY THE COGNIZANT OCM I PRIOR TO SAILING WITH PASSENGERS. IF NOT, MAKE TIMELY REPAIRS.

SYSTEM: NAVIGATION EQUIPMENT
SUBSYSTEM: MAGNETIC COMPASS

ICR NUMBER: G
02

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 184.402

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

- A. Check for illumination.
 - B. Ensure compass can be read from main steering position.
 - C. Ensure deviation table is current, and no major structural changes have been made.
-

DEFICIENCY ACTION

CORRECT PRIOR TO CARRIAGE OF PASSENGERS, IF UNABLE TO DO SO, NOTIFY COGNIZANT OCMI.

SYSTEM: NAVIGATION EQUIPMENT
SUBSYSTEM: RADIO

ICR NUMBER: G
04

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 183.310, 183.392, 184.502

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

- A. Must be capable of operating in 156-162 MHz range. Capable of transmitting and receiving VHF FM Channels 13, 16, 22A. TEST : Obtain radio checks.
 - B. Separate circuit with overcurrent protection at the main distribution panel.
 - C. Supplied by two sources of electricity or batteries with a capacity for three hours.
 - D. Verify that FCC certificates are valid.
-

DEFICIENCY ACTION

REPAIR OR REPLACE DEFECTIVE ITEM. IF UNABLE TO DO SO PRIOR TO CARRIAGE OF PASSENGERS, CONTACT COGNIZANT OCMI.

SYSTEM: NAVIGATION EQUIPMENT
SUBSYSTEM: NAVIGATION LIGHTS

ICR NUMBER: G
05

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 183.310, 183.420

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

- A. Verify that navigation lights are operable. Test on emergency power if installed.
 - B. Proper bulbs installed.
 - C. If navigation light indicator panel installed; operating properly- check all fuses and alarms.
 - D. Verify lights are installed in accordance with Navigation rules.
 - E. Reflective screens in place and painted matte black?
 - F. Lenses clean, wiring free of splices; no deterioration, installation appears sound.
 - G. Supplied by two sources of electricity or batteries with a capacity for three hours.
-

DEFICIENCY ACTION

CORRECT PRIOR TO GETTING UNDERWAY DURING DARKNESS OR PERIODS OF REDUCED VISIBILITY.

SYSTEM: NAVIGATION EQUIPMENT
SUBSYSTEM: INTERNAL COMMUNICATION AND
CONTROL SYSTEMS

ICR NUMBER: G
06

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 184.602

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

- A. If sound powered telephones or voice tubes are installed verify operation.
 - B. Test ringers, and operation of each voice tube or sound powered phone in a location required by the regulations. Ensure each can be heard above the ambient noise of that location.
 - C. If hand held portable radios are used verify operation.
 - D. Verify operation from operating station to location for controlling propulsion machinery.
-

DEFICIENCY ACTION

MAKE APPROPRIATE REPAIRS, CONTACT COGNIZANT OCMI IF UNABLE TO REPAIR
PRIOR TO CARRIAGE OF PASSENGERS.

SYSTEM: NAVIGATION EQUIPMENT
SUBSYSTEM: CHARTS AND PUBLICATION

ICR NUMBER: G
07

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 184.420

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

Verify the following are up-to-date and adequate for the route intended;

1. Large scale charts,
2. Coast Pilot,
3. Light List,
4. Tide Tables,
5. Current tables or River Current Publications.

Extracts of any of the above are permitted.

DEFICIENCY ACTION

OBTAIN RECENT PUBLICATIONS AND UPDATE CHARTS WITH THE MOST RECENT LOCAL NOTICE TO MARINERS.

SYSTEM: NAVIGATION EQUIPMENT
SUBSYSTEM: DAYSHAPES & WHISTLE

ICR NUMBER: G
08

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 33 CFR 81, 84, 86

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

- A. All dayshapes shall be black.
 - B. If shape is a ball, it shall not have a diameter of over .6 meter.
 - C. If shape is a cone, it shall have a base diameter of over .6 meters, and a height equal to its diameter.
 - D. If the shape is a cylinder, it shall have a diameter of at least .6 meters, and a height of twice the diameter.
 - E. A diamond shape shall consist of cones as defined above, having a common base.
 - F. The vertical distance between shapes shall be at least 1.5 meters.
 - G. The frequency of a whistle shall be as required by Table 86.05.
 - H. The whistle shall be installed with its forward axis directed forward and placed as high as practicable.
-

DEFICIENCY ACTION

TAKE ACTION TO CORRECT DEFICIENCY. REPAIR FOG SIGNAL PRIOR TO SAILING DURING PERIODS OF REDUCED VISIBILITY.

SYSTEM: NAVIGATION EQUIPMENT
SUBSYSTEM: ELECTRONIC POSITIONING EQUIPMENT

ICR NUMBER: G
09

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 184.410

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

For vessels on Ocean routes:

- Test the electronic position-fixing device for accuracy by comparing a fix on the device to a charted location.
-

DEFICIENCY ACTION

MAKE TIMELY REPAIRS, IF UNABLE TO DO SO PRIOR TO CARRIAGE OF PASSENGERS,
CONTACT COGNIZANT OCMI.

SYSTEM: NAVIGATION EQUIPMENT
SUBSYSTEM: LOGBOOKS MAINTAINED

ICR NUMBER: G
10

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 185.220, 280

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

FOREIGN VOYAGES

- Official logbooks shall be maintained for vessels on a voyage from a port in the U.S. to a foreign port except to a port in Canada.
 - Verify logbooks have been maintained and that information required by law and regulation are contained within.
 - Provided information regarding casualties, injuries, fatalities, etc. has been given to the Coast Guard, logbook entries more than one year old may be discarded.
-

DEFICIENCY ACTION

CORRECT LOGBOOK ENTRIES AS REQUIRED.

SYSTEM: GROUND TACKLE
SUBSYSTEM: ANCHOR SYSTEM

ICR NUMBER: H
01

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 184.300

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

- A. Anchor sized in accordance with industry standards or as required by OCMI.
 - B. Ensure all anchor releasing and retrieval equipment is operable and in good working condition (line/chain, winch/davit or windlass foundation, stopper, brake).
 - C. Anchor winch or windlass should be tested to let out and retrieve chain.
-

DEFICIENCY ACTION

MAKE APPROPRIATE REPAIRS.

SYSTEM: GROUND TACKLE
SUBSYSTEM: BITTS, CLEATS, FAIRLEADS

ICR NUMBER: H
02

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 184.300

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

- A. Bits, cleats and fairleads not excessively corroded or grooved; no scale build-up.
 - B. Cleat/bit horns not missing, broken or excessively.
 - C. Foundations not fractured.
 - D. All guy wires taut, no slack; turnbuckles, wire rope not wasted.
-

DEFICIENCY ACTION

MAKE APPROPRIATE REPAIRS.

SYSTEM: HULL, DECKS, FITTINGS &
WATERTIGHT INTEGRITY
SUBSYSTEM: WATERTIGHT DOORS

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ICR NUMBER: I
01

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative
REFERENCES: 46 CFR 179.330, 185.610
REGULATORY INSPECTION FREQUENCY: QUARTERLY

INSPECTION CRITERIA

HINGED-TYPE WATERTIGHT DOORS

- A. Ensure knife edges are intact and not warped or corroded and do not have excessive paint buildup.
 - B. Ensure gasket material is intact, continuous, and still pliable.
 - C. Ensure door closes completely around entire perimeter and gasket makes contact with knife edge (chalk test as necessary).
 - D. Examine all hinges and hardware for general condition, wear, fit, etc.
 - E. Ensure that all dogs are operable and grease fittings still work.
 - F. Check wedges on door frame for excessive wear and that matchup with dogs is adequate.
 - G. Test operation of quick action closing device from both sides.
 - H. Ensure markings are clearly legible in a minimum of 1" high letters on both sides with "WATERTIGHT DOOR - KEEP CLOSED".
 - I. Verify proper operation of door status indicator lights in the pilothouse.
-

DEFICIENCY ACTION

REPLACE DETERIORATED/WORN GASKET, DOGS, PINS, ETC. ON HINGED DOORS. IF UNABLE TO DO SO PRIOR TO CARRIAGE OF PASSENGERS, CONTACT COGNIZANT OCMI.

SYSTEM: HULL, DECKS, FITTINGS &
WATERTIGHT INTEGRITY
SUBSYSTEM: WATERTIGHT DOORS

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01

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative
REFERENCES: 46 CFR 179.330, 185.610
REGULATORY INSPECTION FREQUENCY: QUARTERLY

INSPECTION CRITERIA

SLIDING-TYPE WATERTIGHT DOORS

- A. Test operation of door locally (both sides) by manual power and also hydraulic or electric power if so fitted.
 - B. Test operation of door from remote manual location and verify door status indicator at the same location.
 - C. Test operation of door from bridge panel (close/reset only).
 - D. Verify operation of door status indicator on bridge (open/closed).
 - E. Ensure operation of local audible alarm when door is in motion.
 - F. Test operation of power operated doors on emergency generator power.
 - G. Examine metal to metal sealing surfaces for nicks, dents or other obstructions.
 - H. Ensure all door guides and channels are free from debris and other obstructions.
 - I. Ensure markings are clearly legible in a minimum of 1" high letters on both sides with "WATERTIGHT DOOR - KEEP CLOSED".
-

DEFICIENCY ACTION

REPLACE DETERIORATED/WORN GASKET, DOGS, PINS, ETC. CONSULT MANUFACTURER'S INSTRUCTIONS FOR REPAIR/ADJUSTMENTS TO SIDING WATERTIGHT DOORS. IF UNABLE TO DO SO PRIOR TO CARRIAGE OF PASSENGERS, CONTACT COGNIZANT OCM

SYSTEM: HULL, DECKS, FITTINGS &
WATERTIGHT INTEGRITY
SUBSYSTEM: WATERTIGHT BULKHEADS

ICR NUMBER: I
02

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 179.320

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

- A. Examine all watertight bulkheads to ensure they are intact and watertight. Foam flotation (if required & installed) not waterlogged.
 - B. Examine collision bulkhead ensuring it is intact and watertight.
 - C. Ensure electrical cable and piping penetrations maintain watertight integrity and are kept to a minimum.
 - D. Examine for signs of corrosion or deterioration.
 - E. Ensure sluice valves have not been installed.
-

DEFICIENCY ACTION

REPAIR/REPLACE DEFICIENT ITEMS. IF BULKHEADS SHOW SIGNS OF DETERIORATION CONTACT COGNIZANT OCMI

SYSTEM: HULL, DECKS, FITTINGS &
WATERTIGHT INTEGRITY
SUBSYSTEM: STUFFING TUBES, SEALANTS

ICR NUMBER: I
03

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 179.320

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

- A. Ensure electrical cable and piping penetrations maintain watertight integrity i. e. stuffing tubes still serviceable.
 - B. If sealant is used in penetrations, it must be a non-flammable product designed for such use.
-

DEFICIENCY ACTION

REPAIR/REPLACE DEFICIENT ITEMS

SYSTEM: HULL, DECKS, FITTINGS &
WATERTIGHT INTEGRITY
SUBSYSTEM: REMOTE OPERATED VALVES AND CONTROLS

ICR NUMBER: I
04

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 182.500, 182.510

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

- A. Verify operation of all remote fuel shutoff valves. Ensure markings on the weather deck are legible and unobstructed.
 - B. Ensure all valves adequately lubricated and operate freely.
 - C. Operate each reach rod and other manual remote control mechanisms function properly.
 - D. Verify each power operated valve operates properly from control station.
-

DEFICIENCY ACTION

LUBRICATE, REPAIR OR REPLACE AS NECESSARY. IF UNABLE TO CORRECT PROMPTLY NOTIFY COGNIZANT OCMI.

SYSTEM: HULL, DECKS, FITTINGS &
WATERTIGHT INTEGRITY
SUBSYSTEM: HULL AND DECK OPENINGS

ICR NUMBER: I
05

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 179.360

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

- A. Ensure all dogs are properly lubricated and operate freely.
 - B. Ensure all gaskets are in place and clean. (i.e., free of paint, not deteriorated.)
 - C. Ensure all knife edges are clean and free of nicks and paint.
 - D. Ensure hinges and bolts are in good condition; no sagging of door due to worn hinge bolts.
 - E. Ensure dogging wedges are not excessively worn.
 - F. Ensure all hatches have retaining devices.
-

DEFICIENCY ACTION

LUBRICATE, CLEAN, REPAIR OR REPLACE AS NECESSARY.

SYSTEM: HULL, DECKS, FITTINGS &
WATERTIGHT INTEGRITY
SUBSYSTEM: FREEING PORTS AND SELF BAILERS

ICR NUMBER: I
06

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative
REFERENCES: 46 CFR 178.420, 178.430, 178.440
REGULATORY INSPECTION FREQUENCY: MONTHLY

INSPECTION CRITERIA

- A. Ensure self-bailers, scuppers or free ports allow rapid clearing of water.
 - B. Ensure they are free of debris.
 - C. Ensure all scuppers operate freely.
 - D. No modifications made that reduce required freeing port area.
-

DEFICIENCY ACTION

CLEAN OR FREE UP AS NECESSARY.

SYSTEM: HULL, DECKS, FITTINGS &
WATERTIGHT INTEGRITY
SUBSYSTEM: WINDOWS AND AIRPORTS, PORT LIGHTS

ICR NUMBER: I
07

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative
REFERENCES: 46 CFR 179.350
REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

- A. Ensure all dogs are properly lubricated and operate freely.
 - B. Ensure all gaskets are in place and clean. (i.e. free of paint, not deteriorated).
 - C. Ensure hinged dead cover closes properly.
 - D. Ensure all knife edges are clean and free of paint and nicks.
-

DEFICIENCY ACTION

LUBRICATE, CLEAN, REPAIR OR REPLACE AS NECESSARY.

SYSTEM: HULL, DECKS, FITTINGS &
WATERTIGHT INTEGRITY

ICR NUMBER: I
08

SUBSYSTEM: SHELL PLATING/ INTERNAL STRUCTURE JOINT AREA

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 176.402, 176.404

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

- A. Visually inspect hull to waterline; pay close attention to wind and waterline.
 - B. Investigate any significant insets for internal damage.
 - C. Check for wastage around overboard discharges.
 - D. Visually examine accessible welds to ensure they are not 'washing out' .
 - E. Sheer Strake, Stringer Plate, Center Vertical Keel, Hatch Corners- Examine for wastage, pitting, fracture, excessive inset.
 - F. Deck Beams, Underdeck Longs, Deck Girders, Side and Bottom Longs, Keel, Framing, Ladders- Examine for fractured welds, fractures in structural members, wastage, distortion.
-

DEFICIENCY ACTION

SUBMIT WRITTEN REPAIR PROPOSAL TO COGNIZANT OCMI PRIOR TO UNDERTAKING REPAIRS.

SYSTEM: HULL, DECKS, FITTINGS &
WATERTIGHT INTEGRITY
SUBSYSTEM: STEEL AND ALUMINUM HULLS

ICR NUMBER: I
09

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative
REFERENCES: 46 CFR 176.700, 802, 177.300, NVIC 7-68, 11-80
REGULATORY INSPECTION FREQUENCY: COI INTERVAL

INSPECTION CRITERIA

REFERENCES
STEEL structural design in accordance with:
<ul style="list-style-type: none">• Lloyd's Rules & Regulations for the Classification of Yachts & Small Craft; or• ABS Rules for Building & Classing Steel Vessels Under 61 meters (200') in Length
ALUMINUM structural design in accordance with:
<ul style="list-style-type: none">• Lloyd's Rules & Regulations for the Classification of Yachts & Small Craft;• ABS Rules for Building & Classing Aluminum Vessels(if more than 100'); or• ABS Rules for Building & Classing Steel Vessels Under 61 meters (200') in Length with appropriate conversions

- A. Hull Shell/Plate- Examine for wastage, pitting, fractured weld seams. Note excessive upsetting.
 - B. Framing, Stiffeners- Examine for fractured welds, separation from hull plate. Note deformation and fracture in structure, strength value retained.
 - C. Repair and modification procedures- Note proper weld procedures, special metals involved. Examine plate and framing replacement fit-up for alignment, proper corner radius, insert size. Modifications to original structure approved by USCG or Class Society.
 - D. A written repair proposal must be submitted to the cognizant OCMI prior to beginning repairs.
-

DEFICIENCY ACTION

SUBMIT WRITTEN REPAIR PROPOSAL TO COGNIZANT OCM I PRIOR TO UNDERTAKING REPAIRS.

SYSTEM: HULL, DECKS, FITTINGS &
WATERTIGHT INTEGRITY
SUBSYSTEM: FRP HULLS AND STRUCTURE

ICR NUMBER: I
10

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 176.700, 802, 177.300

REGULATORY INSPECTION FREQUENCY: COI INTERVAL

INSPECTION CRITERIA

REFERENCES
FRP structural design in accordance with:
<ul style="list-style-type: none">• Lloyd's Rules & Regulations for the Classification of Yachts & Small Craft; or• ABS Rules for Building & Classing Reinforced Plastic Vessels

- A. Fasteners- examine for loose fit or wasted material.
 - B. Laminate material- Examine for delaminations due to impact or water intrusion. Note: fractures at corners, around fasteners and machinery mounts. Examine extent of blistering.
 - C. Repair and Modification Procedures- Check for proper procedures, materials and repair environment (humidity, temperature, etc.). Examine repair preparation and sequence. Procedures approved or accepted industry standard.
 - D. A written repair proposal must be submitted to the cognizant OCMI prior to beginning repairs.
-

DEFICIENCY ACTION

SUBMIT WRITTEN REPAIR PROPOSAL TO COGNIZANT OCMI PRIOR TO UNDERTAKING REPAIRS.

SYSTEM: HULL, DECKS, FITTINGS &
WATERTIGHT INTEGRITY
SUBSYSTEM: WOOD HULLS AND STRUCTURE

ICR NUMBER: I
11

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative
REFERENCES: 46 CFR 176.700, 802, 177.300, NVIC 7-95
REGULATORY INSPECTION FREQUENCY: COI INTERVAL

INSPECTION CRITERIA

REFERENCES
WOOD structural design in accordance with:
<ul style="list-style-type: none">• Lloyd's Rules & Regulations for the Classification of Yachts & Small Craft

- A. Fasteners- Examine hull for loose or wasted fasteners. Note "backed out wood screw plugs, rust trails in hull.
 - B. Damage- Examine hull, framing for evidence of impact or mechanical damage (cracked frames, split planks, etc.) .
 - C. Wastage and Rot- Examine hull, framing for wet or dry rot. Examine keel (worm) shoe and planking for evidence of marine borers. Check hull planking for loose or sprung planks, loose or missing caulking. Check for proper space ventilation, unpainted bilges.
 - D. Repair and Modification Procedures- Use of proper materials and woodworking techniques in fit up and repair. Proper plank sizing, joint and fastener placement. Use of sister frames appropriate.
 - E. A written repair proposal must be submitted to the cognizant OCMI prior to beginning repairs.
-

DEFICIENCY ACTION

SUBMIT WRITTEN REPAIR PROPOSAL TO COGNIZANT OCMI PRIOR TO UNDERTAKING REPAIRS.

SYSTEM: HULL, DECKS, FITTINGS &
WATERTIGHT INTEGRITY
SUBSYSTEM: MARKINGS

ICR NUMBER: I
12

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative
REFERENCES: 46 CFR 185.602
REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

MARKINGS: Conspicuous and Legible

1. Draft markings
 2. Loading marks
 3. International Load Line markings
 4. Vessel's and Hailing Port
-

DEFICIENCY ACTION

TAKE CORRECTIVE ACTION IN TIMELY MANNER.

SYSTEM: ACCOMMODATIONS/RELATED SPACES
SUBSYSTEM: PASSENGER/CREW ACCOMMODATIONS

ICR NUMBER: J
01

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 177.800, 185.606

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

- A. Space for Passengers- (if alterations to seating or passenger space furnishings, recalculate permitted passengers in accordance with 46 CFR 176.113).
 - B. Toilet facilities:
 - 1. Toilets operate properly.
 - 2. Cleanliness.
 - 3. Drains operating.
 - C. Means of escape:
 - 1. Verify a minimum of two escapes.
 - 2. Labeled "EMERGENCY EXIT, KEEP CLEAR".
 - 3. Not locked; free of obstructions.
-

DEFICIENCY ACTION

TAKE CORRECTIVE ACTION IN TIMELY MANNER.

SYSTEM: ACCOMMODATIONS/RELATED SPACES
SUBSYSTEM: HEATING AND COOKING EQUIPMENT

ICR NUMBER: J
02

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative
REFERENCES: 46 CFR 177.410, 184.200, 184.202, 184.210, 184.220, 184.240, ABYC A-1, A-22, NFPA 302
REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

Inspect condition and test safety features:

- A. Heating Equipment:
 - 1. Verify installation will not come in contact with combustible materials.
 - 2. Verify each electric space heater is provided with a thermal cutout.
 - 3. Verify heater element is of a enclosed type and element case is corrosion resistant.
 - B. Cooking Equipment:
 - 1. Verify door hinges and locking devices prevent accidental opening.
 - 2. Verify grills have a means to collect grease or fat.
 - 3. Verify grab rails are sufficient if required by OCMI.
 - 4. Verify sea rail are secure on cooking range to prevent pot spillage.
 - 5. Verify general cleanliness.
 - C. Verify that all LPG/CNG units are maintained as installed and the following:
 - 1. Verify storage or use of CNG containers is not within an accommodation area, machinery space, bilge, or other enclosed space.
 - 2. Verify LPG or CNG has been odorized.
 - 3. Verify the operation of the remote shutoff valve if the fuel supply line enters an enclosed space.
-

DEFICIENCY ACTION

TAKE CORRECTIVE ACTION IN TIMELY MANNER.

SYSTEM: ACCOMMODATIONS/RELATED SPACES
SUBSYSTEM: POLLUTION PLACARD

ICR NUMBER: J
03

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 33 CFR 155.450, 151.59, MARPOL 73/78

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

The following apply to a vessel that is 26' or more in length.

- A. Verify the legibility of the MARPOL Annex I - "DISCHARGE OF OIL PROHIBITED" placard, as displayed in the machinery space or bilge and ballast pump control station.
 - B. Verify the legibility of the MARPOL Annex V- "GARBAGE" placard as displayed in a prominent location and in sufficient numbers to be visible to passengers and crew.
-

DEFICIENCY ACTION

OBTAIN CURRENT PLACARD AND POST.

SYSTEM: ACCOMMODATIONS/RELATED SPACES
SUBSYSTEM: MARINE SANITATION

ICR NUMBER: J
04

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 184.704, 33 CFR 159

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

If the vessel has an installed toilet facility a MSD must be installed.

- A. For Type I and II:
 - 1. Verify manufactures nameplate posted on device.
 - 2. Verify the device has a placard containing the operating instructions, safety precautions and warnings pertinent to the device.
 - 3. Verify operation of chemical level indicator.
 - 4. Verify operation of sewage level indicator if device is designed as a sewage retention device.
 - 5. Verify momentary loss of power does not allow discharge.
 - 6. Verify vents are free and open.
 - B. For Type III:
 - 1. Verify operation of sewage level indicator.
-

DEFICIENCY ACTION

ENSURE ACCIDENTAL DISCHARGE OF SEWAGE IS PREVENTED. CORRECT DEFICIENCY; NOTIFY COGNIZANT OCM I IF UNABLE TO DO SO IN A TIMELY MANNER

SYSTEM: ACCOMMODATIONS/RELATED SPACES
SUBSYSTEM: EMERGENCY CHECKLIST

ICR NUMBER: J
05

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 185.510, 185.512

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

- A. Verify that the emergency instructions posted at the operating station contain actions to be taken in the event of fire, heavy weather, and man overboard conditions.
 - B. Verify that these instructions are vessel specific and remain current to the vessel layout and crew compliment.
-

DEFICIENCY ACTION

UPDATE EMERGENCY INSTRUCTIONS AS NEEDED AND PLACE ONBOARD.

SYSTEM: ACCOMMODATIONS/RELATED SPACES
SUBSYSTEM: BERTHING ACCOMMODATIONS

ICR NUMBER: J
07

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 175.400, 177.700, 177.800, 177.810

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

- A. Ensure space is adequate for the personnel assigned.
 - B. Accommodation maintained to minimize and safety hazards and to preserve sanitary conditions.
 - C. Aisles kept clear of obstructions.
 - D. Passenger berths constructed of approved material and not stacked more than three high.
 - E. A suitable means of access is provided for each berth located more than 60" above the deck.
 - F. Arrangement of berths and other furniture allows free and unobstructed access to each berth.
-

DEFICIENCY ACTION

TAKE CORRECTIVE ACTION IN TIMELY MANNER.

SYSTEM: ACCOMMODATIONS/RELATED SPACES
SUBSYSTEM: LADDERS, RAILS, GUARDS AND
EMBARCATION STATIONS

ICR NUMBER: J
10

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 177.500, 900, 920, 940

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

- A. Verify adequate lighting in way of embarkation area.
 - B. Verify rails are all bolted or welded securely.
 - C. Verify wire mesh or equivalent securely attached to rails.
 - D. Verify access to the ladders is not hindered by obstructions and free of protrusions.
 - E. Verify free of corrosion, sharp edges or cracks (check where rails are welded to deck closely and supporting structure).
 - F. Verify guards are in place in way of rotating machinery.
-

DEFICIENCY ACTION

TAKE CORRECTIVE ACTION PRIOR TO CARRIAGE OF PASSENGERS.

SYSTEM: EMERGENCY DRILLS
SUBSYSTEM: DRILLS; PROPERLY CONDUCTED

ICR NUMBER: K
01

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 185.520, 185.524

REGULATORY INSPECTION FREQUENCY: AT LEAST QUARTERLY

INSPECTION CRITERIA

CREW TRAINING	
<ul style="list-style-type: none">• Verify crew members are familiar with their assigned responsibilities in an emergency.	
ALL DRILLS	<ul style="list-style-type: none">A. All drills are to be conducted as if an actual emergency existed.B. Verify method of summoning the crew (and passengers if on an overnight voyage) is adequate.C. Verify crew reports to assigned stations (as on station bill if required) and is prepared for the emergency.
ABANDON SHIP & MAN OVERBOARD	<ul style="list-style-type: none">A. Check for the proper donning of lifejackets.B. Check operation of all davits used for launching liferafts.C. Witness instruction on the deployment of survival craft.D. Each rescue boat must be launch and operated by its assigned crew.
FIREFIGHTING	<ul style="list-style-type: none">A. Witness instruction on the use of all types of firefighting equipment onboard.

DEFICIENCY ACTION

TAKE CORRECTIVE ACTION PRIOR TO CARRIAGE OF PASSENGERS. PROVIDE NEEDED INSTRUCTION UNTIL DRILLS ARE CONDUCTED SATISFACTORILY

SYSTEM: EMERGENCY DRILLS
SUBSYSTEM: DRILLS; PROPERLY LOGGED

ICR NUMBER: K
02

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 185.520, 185.524

REGULATORY INSPECTION FREQUENCY: AS DRILLS ARE CONDUCTED

INSPECTION CRITERIA

- A. Verify drills and training have been logged or otherwise documented.
 - B. Entries shall include the date of the drill and training and a general description of the drill scenario and training topics.
-

DEFICIENCY ACTION

MAKE APPROPRIATE CORRECTIONS.

SYSTEM: FORMS, NOTICES, PUBLICATIONS &
CREW REQUIREMENTS
SUBSYSTEM: POLLUTION/MARPOL

ICR NUMBER: L
01

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative
REFERENCES: 33 CFR 155.450, 151.59, MARPOL 73/781
REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

The following apply to a vessel that is 26' or more in length.

- A. Verify the legibility of the MARPOL Annex I -"DISCHARGE OF OIL PROHIBITED" placard, as displayed in the machinery space or bilge and ballast pump control station.
- B. Verify the legibility of the MARPOL Annex V- "GARBAGE" placard as displayed in a prominent location and in sufficient numbers to be visible to passengers and crew.

<p>NOTE: All oceangoing U.S. vessels of 40 feet or more in length are required to maintain a written waste management plan onboard.</p>
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DEFICIENCY ACTION

PROVIDE PLACARD AND/OR WASTE MANAGEMENT PLAN ONBOARD.

SYSTEM: FORMS, NOTICES, PUBLICATIONS &
CREW REQUIREMENTS
SUBSYSTEM: COAST GUARD/SOLAS FORMS

ICR NUMBER: L
02

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 176.302, 306

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

- A. Certificate of Inspection
 - 1. Must be displayed under glass in a conspicuous place.
 - 2. Posted where observation of passengers is likely.
 - B. Stability Letter (if issued)
 - 1. Must be displayed under glass.
 - 2. Must be visible from the operating station.
 - C. SOLAS Passenger Ship Safety Certifications Certificates (international voyage)
 - 1. Must be displayed under glass in a conspicuous place.
 - 2. Posted where observation of passengers is likely.
-

DEFICIENCY ACTION

OBTAIN AND POST FORMS PRIOR TO ENTERING THE VESSEL IN A PASSENGER CARRYING SERVICE

SYSTEM: FORMS, NOTICES, PUBLICATIONS &
CREW REQUIREMENTS
SUBSYSTEM: VESSEL MANNING

ICR NUMBER: L
03

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative
REFERENCES: 46 CFR 10; 12; 15; SOLAS CHAPTER I
REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

- A. Number of officer and unlicensed crew required
 - 1. Certificate of Inspection
 - 2. Safe Manning Document
 - B Licenses valid, endorsed, posted
 - 1. Date of issue and/or expiration
 - i. Licensed Officers- Deck, Engineer
 - ii. Tonnage, route, radar observer, firefighting, horsepower- steam or diesel, etc.
 - C. MMD's are appropriate for jobs
 - 1. Able seamen, QMED, etc.
 - i. Endorsements such as : lifeboat man, lookout, etc.
 - D. Reduced manning requirements are being met. (If Applicable).
 - 1. As per local OCMI, Administrative organization, Classification society.
-

DEFICIENCY ACTION

OBTAIN PROPERLY QUALIFIED PERSONNEL. IF VESSEL MUST SAIL SHORT CONTACT
COGNIZANT OCMI PRIOR TO BEGINNING VOYAGE

SYSTEM: STEAM POWER SYSTEMS
SUBSYSTEM: EXTERNAL EXAMINATION OF BOILERS

ICR NUMBER: M
01

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 61.01, 61.05, 61.10 AND 62

REGULATORY INSPECTION FREQUENCY: ANNUALLY

NOTE: Annual examination to be witnessed by a Coast Guard Marine inspector and conducted during hydrostatic test

INSPECTION CRITERIA

1. Inner casing, outer casing and wind box:
 - a. Examine all for distortion, bulging, fractures, burned and sagging areas.
 2. Lagging:
 - a. Examine for proper fit, condition, burned or missing sections, etc.
 - b. Check for exhaust leaks around flanges on boiler and exhaust stacks under lagging joints.
 3. Tank tops beneath boiler:
 - a. Examine for corrosion, pitting, distortion, cleanliness of tank top and oil wetted areas (fracture indication).
 4. Condition of foundation/sliding feet:
 - a. Examine boiler foundation frames for corrosion, distortion and fractures.
 - b. Examine sliding feet for alignment, binding, fractures, corrosion and cleanliness.
 5. Headers/Handholes evidence of leakage:
 - a. Externally examine headers and handholes for signs of leakage around gasket and welds.
 - b. Internally for foreign objects and cracking around tubes.
 6. Automation Test Procedures:
 - a. Using approved automation test procedures, test all alarms and shutdowns.
-

DEFICIENCY ACTION

REPLACE OR REPAIR DEFICIENT ITEM. ENSURE IT IS OPERATING PROPERLY.

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 61.05, 10

REGULATORY INSPECTION FREQUENCY: TWICE IN FIVE-YEAR PERIOD

<p>NOTE: Examination to be witnessed by a Coast Guard Marine Inspector.</p>
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INSPECTION CRITERIA

1. Steam drum, mud drum, headers (waterwall, superheater) :
 - a. Remove baffle plates in steam drum.
 - b. Internally examine for fractures, missing/loose bolts or brackets, foreign objects and signs of corrosion, erosion and leakage.
2. Drum internals including :
 - a. Dry pipe, examine for corrosion of pipe and support brackets.
 - b. Main and chemical feed lines, examine for corrosion; hammer test flanged connections.
 - c. Desuperheater and control desuperheater, examine for corrosion; hammer test flanged connections.
 - d. Surface blow, examine connection for fractures and corrosion.
 - e. Baffle plates, examine for fractures in plates and brackets/missing bolts.
 - f. Tube sheet connections/ligament, examine for fractures and leaks.
 - g. Connections and attachments, examine for fractures and pitting.
 - h. Surface conditions, examine for scaling, pitting, corrosion, erosion and fractures.

DEFICIENCY ACTION

REPLACE OR REPAIR DEFICIENT ITEM. ENSURE IT IS OPERATING PROPERLY.

SYSTEM: STEAM POWER SYSTEMS
SUBSYSTEM: WATERSIDE EXAMINATION OF WATER TUBE BOILERS

PAGE 2 of 2
ICR NUMBER: M
02

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 61.05, 10

REGULATORY INSPECTION FREQUENCY: TWICE IN FIVE-YEAR PERIOD

<p>NOTE: Examination to be witnessed by a Coast Guard Marine Inspector.</p>
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INSPECTION CRITERIA

3. Verify number of tubes plugged, ie.- Row 4, tubes 5,6&13, Stbd. steam drum.
4. Headers, (Remove every 5th hand hole cover):
 - a. Hand hole seats, examine seats in header and cover plates for corrosion, pitting and erosion.
 - b. Tube connections, with a light and mirror, examine tube connections for leakage and fractures
 - c. Welded connections, examine for fractures and erosion.
 - d. Division plates, examine for fractures and erosion.
 - e. Surface conditions, examine header for pitting, erosion, scaling and foreign debris, ie; gasket pieces.

DEFICIENCY ACTION

REPLACE OR REPAIR DEFICIENT ITEM. ENSURE IT IS OPERATING PROPERLY

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 61.05

REGULATORY INSPECTION FREQUENCY: TWICE IN FIVE-YEAR PERIOD

NOTE: Examination to be witnessed by a Coast Guard Marine Inspector.
Boiler to be at 1.25 MAWP (Hydro Pressure for this examination)

INSPECTION CRITERIA

1. **Brick work:**
 - a. Examine for loose, broken, missing or eroded bricks. Repair as needed.
 - b. Examine floors for heaving, excess slag build-up.
2. **Corbel:**
 - a. Examine for loose, broken or missing corbel (Burner cones).
3. **Waterwall, screen, generating, and floor tubes : (if fitted) :**
 - a. Examine for sagging and blistering, married and burned out tubes.
4. **Superheater tubes and supports:**
 - a. Examine for sagging and blistering, married and burned out tubes.
 - b. Examine for burned out supports that cause sagging sections of tubes.
5. **Burner:**
 - a. Examine for excess slag build-up (indication of dribbling nozzle).
 - b. Examine for fractures in the air registers and diffusers.
 - c. Externally examine for fuel leakage.

DEFICIENCY ACTION

REPLACE OR REPAIR DEFICIENT ITEM. ENSURE IT IS OPERATING PROPERLY

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 61.05

REGULATORY INSPECTION FREQUENCY: TWICE IN FIVE-YEAR PERIOD

<p>NOTE: Examination to be witnessed by a Coast Guard Marine Inspector. Boiler to be at 1.25 MAWP (Hydro Pressure for this examination)</p>
--

INSPECTION CRITERIA

6. **Amount of slag accumulation:**
 - a. Internally examine for excessive slag build-up on tubes, brick work and corbel.
(This causes poor heat transfer, loss of efficiency and internal damage).
7. **Uptake and economizer:**
 - a. Examine for excessive soot accumulation on tubing fins.
 - b. Examine for fractures, corrosion and exhaust leaks.
8. **Soot blowers:**
 - a. Examine for proper operation, leaks, fractures or excessive soot deposits.
9. **Air heaters:**
 - a. Examine for soot build up, leaks and unrestricted operation.

DEFICIENCY ACTION

REPLACE OR REPAIR DEFICIENT ITEM. ENSURE IT IS OPERATING PROPERLY

SYSTEM: STEAM POWER SYSTEMS
SUBSYSTEM: FIRESIDE EXAMINATION OF FIRE TUBE BOILERS

PAGE 1 of 2
ICR NUMBER: M
04

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 61.05, 59.15-1

REGULATORY INSPECTION FREQUENCY: ANNUALLY IF ≥ 150 psi / TWICE-IN-FIVE YEAR PERIOD IF < 150 psi

<p>NOTE: Examination to be witnessed by a Coast Guard Marine Inspector. Boiler to be at 1.5 x MAWP. (Hydro pressure for this examination.)</p>

INSPECTION CRITERIA

1. **Furnace (distortion):**
 - a. Measure with a tram bar to detect distortion.
 - b. Repair as needed as per 46 CFR 59.15-1(a) or 46 CFR 59.15-1(c).
2. **Combustion chamber: (crown sheet, wrapper sheet, back sheets) (distortion).**
3. **Boiler shell and heads:**
 - a. All portable sections and any suspect or wet areas of lagging shall be removed while boiler is under hydrostatic pressure to determine the source of leaks.
 - b. Examine shell and heads for corrosion and wastage.
4. **Stay bolts:**
 - a. Examine for corrosion, wastage and necking.
5. **Riveted seams and rivets (if applicable):**
 - a. Examine for stress corrosion cracking around rivets, especially around loose or missing rivet holes.
 - b. Examine for leakage at seams and rivets.

DEFICIENCY ACTION

REPLACE OR REPAIR DEFICIENT ITEM. ENSURE IT IS OPERATING PROPERLY

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 61.05, 59.15-1

REGULATORY INSPECTION FREQUENCY: ANNUALLY IF ≥ 150 psi / TWICE-IN-FIVE YEAR PERIOD IF < 150 psi

<p>NOTE: Examination to be witnessed by a Coast Guard Marine Inspector. Boiler to be at 1.5 x MAWP. (Hydro pressure for this examination.)</p>

INSPECTION CRITERIA

6. **Boiler saddles and foundations :**
 - a. Hammer test saddles, collision chocks, and foundation to detect deterioration.
7. **Plating in way of mountings :** (wastage due to leaking valves and fittings).
 - a. Examine for wastage due to leaks from mounts.
8. **Cracks in the plating due to flexing of the heads or leakage :**
 - a. Cracks, wastage or evidence of leaks shall require further examination of the inside of the head.
9. **Wastage around the manhole gaskets :**
 - a. Examine for corrosion or wastage due to gasket leaks.
10. **Note heat number and condition (sat/unsat) of fusible plugs.**

DEFICIENCY ACTION

REPLACE OR REPAIR DEFICIENT ITEM. ENSURE IT IS OPERATING PROPERLY

SYSTEM: STEAM POWER SYSTEMS
SUBSYSTEM: WATERSIDE EXAMINATION OF FIRE TUBE BOILERS

ICR NUMBER: M
05

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 61.05 AND PART 59

REGULATORY INSPECTION FREQUENCY: ANNUALLY IF ≥ 150 psi / TWICE-IN-FIVE YEAR PERIOD IF < 150 psi

<p>NOTE: Examination to be witnessed by a Coast Guard Marine Inspector.</p>
--

INSPECTION CRITERIA

1. Straps and rivets attaching the heads to the shell: (if applicable).
 - a. Sound or "ring" with hammer to check for tightness.
 - b. NDT for cracks, any rivet holes with loose or missing rivets.
 2. Necked stays, loose rivets, and fracture:
 - a. Examine stays for corrosion, wastage and necking, renew as needed.
 - b. Loose or missing rivets require NDT and repair as per 46CFR part 59.
 - c. Fractures require NDT and repair as per 46CFR part 59.
 3. Tubes : (Pitting- determine general depth and tube type).
 - a. Examine for deep pits over a large area, shallow widely scattered pits over a large area can usually be disregarded.
 - b. A distinction must be made between plain and stay tubes, stay tubes have a greater initial wall thickness.
 4. Internal surface conditions : (scaling, pitting, corrosion and erosion).
 - a. Examine for excessive scale, small amounts are common.
 - b. Examine for corrosion and erosion to plating due to leaks, defective internal feed-line gaskets are a frequent cause.
-

DEFICIENCY ACTION

REPLACE OR REPAIR DEFICIENT ITEM. ENSURE IT IS OPERATING PROPERLY.

SYSTEM: STEAM POWER SYSTEMS
SUBSYSTEM: REQUIRED MOUNTS (open/inspect)

ICR NUMBER: M
06

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 56.25-20 & 61.05-15

REGULATORY INSPECTION FREQUENCY: TEN-YEAR INTERVAL

<p>NOTE: Quad-annual examination to be witnessed by a Coast Guard Marine Inspector.</p>
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INSPECTION CRITERIA

- A. Each valve shall be opened for examination. If the valve can not be satisfactorily examined in place it must be removed for examination. The following is summary of the valves requiring examination:
- Main steam stop valve
 - Generator steam stop valve
 - Auxiliary steam stop valve
 - Main and auxiliary feed stop valves
 - Surface and bottom blowdown valves
 - Superheater vent valve
 - Superheater drain valve
 - Soot blower stop valve
 - Economizer inlet and outlet valves
- B. Examine the valves for the following:
1. Seat- no grooves, gouges, pitting, corrosion or scale
 2. Disc- no grooves, gouges, pitting, corrosion or scale
 3. Stem- check for free operation, straightness and wear
 4.) Integrity of valve body- check for guide and body wear
 5. Condition of stem packing gland- check for wear/distortion and install new packing
 6. Gland ring bolts- check for stretched, bent, or broken bolts
- C. Examine all studs bolts for cracks, deterioration and necking down.

DEFICIENCY ACTION

REPLACE OR REPAIR DEFICIENT ITEM ENSURE IT IS WORKING PROPERLY.

SYSTEM: STEAM POWER SYSTEMS
SUBSYSTEM: HYDROSTATIC TEST

ICR NUMBER: M
07

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 61.05 & 61.15

REGULATORY INSPECTION FREQUENCY:

FREQUENCY	INSPECTION ITEM(S)
Annually	Firetube Propulsion
Twice-in-Five Years	Others
Every Five Years	Piping

NOTE: Examination to be witnessed by a Coast Guard Marine Inspector.

INSPECTION CRITERIA

- A. Conduct tests in conjunction with required fireside exam.
- B. Ensure safety valves are secured by gags or clamps.
- C. Verify water temperature is correct:
 - 1. *Watertube* = not less than 70° F. and not more than 160° F
 - 2. *Firetube* = not more than 100° F
- D. Verify appropriate test pressure:
 - 1. *Watertube* = 1 ¼ MAWP
 - 2. *Firetube* = 1 ½ MAWP
- E. Test all main steam piping from the boiler drum to the throttle. No piping with a nominal size of 3" or less need be tested.
 - 1. Verify appropriate test pressure = 1 ¼ MAWP
 - 2. The test pressure is held for a minimum of 10 minutes.
- F. Examine all tube joints, header connections and handhole plates for leakage.

NOTE: Any leaks to be repaired "After" pressure is released from boiler or piping.

DEFICIENCY ACTION

REPLACE OR REPAIR DEFICIENT ITEM. ENSURE IT IS OPERATING PROPERLY.

SYSTEM: STEAM POWER SYSTEMS
SUBSYSTEM: LIFTING/RESEATING SAFETY VALVES

ICR NUMBER: M
08

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 52.01-120, 61.05-20 AND 52.01-55

REGULATORY INSPECTION FREQUENCY:

FREQUENCY	BOILER TYPE
Annually	Firetube
At COI renewal	Watertube

NOTE: Examination to be witnessed by a Coast Guard Marine Inspector.

INSPECTION CRITERIA

Witness the lifting and reseating of each safety valve for the drum, superheater, or reheater of a boiler:

- a. Determine the MAWP (Maximum Working Pressure). This can be found on the boiler name plate or in the manufacturer's specification manual.
- b. During the testing of the safety valve ensure that the valve is set no higher than the MAWP, but above the normal steaming range
- c. Ensure that the superheater safety valve is set correctly in relation to the drum safety valve. The drum safety has the highest setting followed by the superheater safety (1) or safeties (2) and the pilot operated safety valve if installed.
- d. Ensure that the "blow-down" range falls within 2-4% of the set pressure for each valve, but not falling into the steaming range of the boiler.
- e. Ensure that there is no simmering or chattering during the lifting or reseating of any safety valve.
- f. A Coast Guard Marine Inspector shall seal all safety valves.
- g. Operationally test all hand relieving gear to ensure all safety valves work manually.
- h. Examine all escape piping to ensure it's integrity and free from leaks.

DEFICIENCY ACTION

REPLACE OR REPAIR DEFICIENT ITEM. ENSURE IT IS OPERATING PROPERLY.

Subchapter T

SYSTEM: STEAM POWER SYSTEMS
SUBSYSTEM: CONDENSATE SYSTEM

ICR NUMBER: M
09

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 56.50-35 AND 56.50-45

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

- A. Examine sea water piping, valves and expansion joints for corrosion, leakage, broken bolts in flanges, support brackets, and integrity of expansion joint ground straps.
 - B. Examine condensers for corrosion, leakage, broken/missing bolts or studs and wastage of the condenser body.
 - C. Examine condensate piping for leakage, corrosion, broken/missing flange bolts and over-all condition of piping and supports.
 - D. Operationally test all sea water circulating and condensate pumps in modes, operating all local and remote shutdowns, if installed. Check for proper operation of steam engine or electric motor, seals, foundations, wiring and over all condition of pump.
-

DEFICIENCY ACTION

REPLACE OR REPAIR DEFICIENT ITEM. ENSURE IT IS OPERATING PROPERLY.

SYSTEM: STEAM POWER SYSTEMS
SUBSYSTEM: FEEDWATER SYSTEM

ICR NUMBER: M
10

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 56.50-30

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

- A. Examine feedwater piping, valves and expansion joints for corrosion, leakage, broken bolts in flanges, support brackets, and integrity of system.
 - B. Ensure that two methods of determining boiler water levels are operable. This includes, but not limited to, sight glasses and alarms.
 - C. Operationally test all feed pumps in all modes, to ensure the stand-by pump operates when the primary fails. Operating all local and remote shutdowns, if installed. Check for proper operation of steam engine or electric motor, seals, foundations, wiring and overall condition of pumps.
 - D. Inspect make-up feed evaporator externally, if installed, to ensure proper operation and that there are no leaks or wastage.
 - E. Operationally test feedwater regulators if not part of the automation test procedure.
 - F. Externally inspect feedwater heaters for corrosion, wastage and leaks.
-

DEFICIENCY ACTION

REPLACE OR REPAIR DEFICIENT ITEM. ENSURE IT IS OPERATING PROPERLY

SYSTEM: STEAM POWER SYSTEMS
SUBSYSTEM: MAIN ENGINES

ICR NUMBER: M
11

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 58.01-20

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

- A. Inspect main engine foundations for fractures, wastage, corrosion. Hammer test, "Ring", foundation bolts to check for loose bolts or nuts.
 - B. Operational test engine to check governor operation, examine piping for leaks and fractures, test for trip on overspeed and low/low L/O pressure.
 - C. Operational test engine to check throttle for ease of operation and leaks.
 - D. Operational test engine to check that all instrumentation is working properly and not leaking steam, oil or air, all wiring is in proper condition and no broken gauges or alarms.
 - E. Operational test lube oil system to ensure there are no leaks and all pumps are operational in all modes, all local and remote controls operate properly and filters are not leaking and operating within their pressure range.
-

DEFICIENCY ACTION

REPLACE OR REPAIR DEFICIENT ITEM. ENSURE IT IS OPERATING PROPERLY.

SYSTEM: STEAM POWER SYSTEMS
SUBSYSTEM: INSULATION

ICR NUMBER: M
12

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 56.50-1

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

- A. Inspect all steam piping and machinery insulation to ensure it is intact, all wire hooks/wire and blankets (if installed) are in place to minimize the risk of personnel hazards.
-

DEFICIENCY ACTION

REPLACE OR REPAIR DEFICIENT ITEM. ENSURE IT IS APPROPRIATE.

SYSTEM: DIESEL POWER SYSTEMS
SUBSYSTEM: REMOTE ENGINE SHUTDOWNS

ICR NUMBER: N
01

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 182.200, 455

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

- A. Test each remote fuel shutoff valve located in the fuel line at the tank from outside the compartment in which the valve is installed. Ensure any and all reach rods function freely and properly and the valve closes fully.
 - B. Test the other means of remotely shutting down each engine.
-

DEFICIENCY ACTION

IF ANY COMPONENT OR TEST FAILS, EFFECT REPAIRS PRIOR TO THE CARRIAGE OF PASSENGERS

SYSTEM: DIESEL POWER SYSTEMS
SUBSYSTEM: CONDITION & ENGINE INSTALLATION

ICR NUMBER: N
02

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 182.400

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

- A. Ensure engine crankcase explosion covers are installed correctly and maintained in a serviceable condition.
 - B. Examine all fuel supply and return piping, fittings and hoses for leaks, and signs of chafing.
 - C. Determine that all engine instruments/indicators function normally, without undue fluctuation, gage faces are clean and intact, properly labeled, calibrated, are visible, measure the value in a range useful to the operator.
 - D. Ensure all personnel safety devices (guards, rails, spray shields, insulation) are in place, properly maintained. Secured in the correct location and labeled, stenciled, or color coded as required.
 - E. Any location that poses a slip-trip-fall hazard, machine or equipment which may trap or ensnare a person or persons clothing must be immediately corrected.
 - F. Engine exhaust systems shall be inspected for leaks, wasted gaskets, loose, saturated, or missing lagging, proximity to combustible materials, overheating adjacent structures, and potential personnel injury in the event of accidental contact.
 - G. Examine engine foundation and tank tops for signs of fatigue, stress, fractures, flexing while operating, indication of misalignment, and unusual noise and vibration.
 - H. Examine engine air intakes to ensure that devices are installed to prevent the entrance of harmful foreign materials and the device is in good repair.
 - I. Ensure crankcase vents are clear and that the accumulation of oil and vapors are contained and removed.
-

DEFICIENCY ACTION

REPLACE OR REPAIR DEFICIENT ITEM. ENSURE IT IS APPROPRIATE.

SYSTEM: DIESEL POWER SYSTEMS
SUBSYSTEM: AIR START SYSTEMS

ICR NUMBER: N
03

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46CFR 54, 61.10, 176.812, 182.330

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

- A. Verify all valves, gauges, and pressure controls function as designed.
 - B. Test the relief valve by increasing the system pressure until the valve "pops" or the MAWP on the receiver is reached. *NOTE:* If the valve does not lift. The valve must be replaced or adjusted to lift at the specified pressure not to exceed that marked on the receiver data plate.
 - C. Examine accumulators to determine that the accumulator can be isolated. That it is protected on the gas and fluid side by relief valves set to relieve at pressures not to exceed the MAWP.
-

DEFICIENCY ACTION

CORRECT, REPAIR OR ADJUST ANY COMPONENT AS REQUIRED.

SYSTEM: DIESEL POWER SYSTEMS
SUBSYSTEM: HYDRAULIC STARTING SYSTEM

ICR NUMBER: N
04

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46CFR 54, 58.30, 61.10,, 176.812, 182.330

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

1. Examine hydraulic system with system under operating pressure. Verify that all joints, connections are tight and leak free. Examine non-metallic hoses for signs of chafing.
 2. Verify system functions normally, accumulator recharges and all gauges, valves and controls function.
 3. Examine accumulator for signs of leaks or physical damage.
-

DEFICIENCY ACTION

CORRECT, REPAIR OR ADJUST ANY COMPONENT AS REQUIRED.

SYSTEM: DIESEL POWER SYSTEMS
SUBSYSTEM: ELECTRIC STARTING SYSTEMS

ICR NUMBER: N
05

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 183

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

- A. Ensure starting system wiring is properly supported, protected from chafing, and routed away from moving machinery.
-

DEFICIENCY ACTION

CORRECT, REPAIR OR ADJUST ANY COMPONENT AS REQUIRED

SYSTEM: DIESEL POWER SYSTEMS
SUBSYSTEM: FUEL SYSTEMS

ICR NUMBER: N
06

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 182.435, 440, 445, 455

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

- A. Examine external condition of the fuel tanks, piping, fittings, hoses and support braces.
 - B. Ensure all fuel tanks are electrically bonded to a common ground.
 - C. All flexible nonmetallic hoses are of suitable type and double clamped.
 - D. Flame screens are in good condition and made of a corrosion resistant material.
 - E. Ensure method of determining the amount of fuel in each tank is appropriate.
-

DEFICIENCY ACTION

CORRECT, REPAIR OR ADJUST ANY COMPONENT AS REQUIRED

SYSTEM: UNFIRED PRESSURE VESSELS
SUBSYSTEM: EXTERNAL EXAM OF UPS

ICR NUMBER: O
01

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 176.812, 61.10-5

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

Examine each pressure vessel on the ship to verify the following:

1. Pressure gauge installed is accurate, visible, and in good working condition.
 2. Verify that the name plate on the vessel is intact and legible. Ensure that the data plate on the relief valve is also intact and the valve is suitable for the application and rated capacity of the receiver and MAWP.
 3. Determine that the vessel itself is securely mounted to the ships structure and all piping to receiver is adequately supported.
 4. Verify externally that the pressure vessel is in sound condition and that there is no evidence of structural damage.
-

DEFICIENCY ACTION

EFFECT REPAIRS TO CORRECT ANY DEFICIENCY. NOTIFY THE OCM I IF STRUCTURAL DAMAGE IS NOTICED PRIOR TO TAKING CORRECTIVE ACTION.

SYSTEM: UNFIRED PRESSURE VESSELS
SUBSYSTEM: INTERNAL EXAM OF UPS

ICR NUMBER: O
02

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 176.812, 61.10-5

REGULATORY INSPECTION FREQUENCY: TWICE IN ANY FIVE-YEAR PERIOD

INSPECTION CRITERIA

This ICR applies to each UPV that is fitted with a manhole or other inspection opening so it can be satisfactorily examined internally.

Examine inside of UPV especially all welded connections looking for gauging or pitting.

If any defect is noticed with in the UPV it must be hydrostatically tested to 1 ½ times the MAWP.

If no defect is noted, the UPV does not need to be hydrostatically tested.

DEFICIENCY ACTION

NOTIFY THE OCM I IF STRUCTURAL DAMAGE IS NOTICED PRIOR TO TAKING CORRECTIVE ACTION.

SYSTEM: UNFIRED PRESSURE VESSELS
SUBSYSTEM: HYRDOSTATIC TESTING

ICR NUMBER: O
03

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 176.812, 61.10-5

REGULATORY INSPECTION FREQUENCY: TWICE IN ANY FIVE-YEAR PERIOD

INSPECTION CRITERIA

Each UPV which can not be internally examined must be hydrostatically tested and each UPV which has been internally examined with noted deficiencies.

Hydrostatic test pressure is to be 1 ½ times the MAWP of the UPV.

Examine for leaks and seepage.

DEFICIENCY ACTION

NOTIFY THE OCM I IF STRUCTURAL DAMAGE IS NOTICED PRIOR TO TAKING CORRECTIVE ACTION.

SYSTEM: UNFIRED PRESSURE VESSELS
SUBSYSTEM: TEST PRESSURE RELIEF VALVES

ICR NUMBER: O
04

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46CFR 176.812, 61.10-5

REGULATORY INSPECTION FREQUENCY: COI INTERVAL

INSPECTION CRITERIA

- A. Verify the setting of the safety or relief valve is at or below the MAWP of the pressure
 - B. Function test the hand lifting device.
 - C. Verify that after testing the valve that it seats tightly.
-

DEFICIENCY ACTION

ANY RELIEF VALVE THAT FAILS SHALL BE REPAIRED OR REPLACED PRIOR TO SYSTEM BEING PLACED IN SERVICE.

SYSTEM: AUXILIARY MACHINERY & EQUIPMENT
SUBSYSTEM: STEERING GEAR COMPONENTS

PAGE 1 of 2
ICR NUMBER: P
01

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative
REFERENCES: 46 CFR 111.93, 176.814, 182.610, 620
REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

- A. Verify all foundations, and all equipment mounting bolts are intact and secured properly.
 - B. Check piping systems and attachments, equipment securing brackets, protective guards, wire runs and cages, and other items prone to corrosion and vibration fatigue.
 - C. Inspect control linkages and linkage pins, and ram guides for wear.
 - D. Verify feedback devices, differential units, or other components that may cause single point failure and make sure they are in good condition.
 - E. Ensure that all vital connections, pins, couplings and control linkages have securing devices, such as cotter pins or double-nut locking arrangements, to prevent loosening from heavy vibration.
 - F. Verify emergency steering procedures and steering transfer diagrams are posted, clear and correct.
 - G. Inspect the carrier bearing for undue wear and leakage of water through the rudder post packing or vent ducts.
 - H. Inspect the insides of motor controller and switch gear boxes for general condition/ safe wiring practice, loose connections and any signs of corrosion, excessive condensation or electrical arcing.
-

DEFICIENCY ACTION

REPLACE OR REPAIR DEFECTIVE ITEM. ENSURE IT IS OPERATING PROPERLY

SYSTEM: AUXILIARY MACHINERY & EQUIPMENT
SUBSYSTEM: STEERING GEAR COMPONENTS

PAGE 2 of 2
ICR NUMBER: P
01

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 111.93, 176.814, 182.610, 620

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

- I. Inspect pumps and motors by hand rotating each motor and pump assembly, being alert for unusual noise, binding or a feeling of roughness during rotation. Couplings should be examined for excessive play and evidence of grease slinging. Check motor ventilation openings for cleanliness.
 - J. Ensure all hydraulic hoses and connections are intact and the oil reservoir is properly filled.
 - K. Inspect the steering gear space for fire and personnel hazards, ie. oily rags, dangerous electrical connections, adequate lighting, etc.
-

DEFICIENCY ACTION

REPLACE OR REPAIR DEFECTIVE ITEM. ENSURE IT IS OPERATING PROPERLY

SYSTEM: AUXILIARY MACHINERY & EQUIPMENT
SUBSYSTEM: STEERING GEAR OPERATIONAL TEST

PAGE 1 of 2
ICR NUMBER: P
02

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative
REFERENCES: 46 CFR 111.93, 176.814, 182.610, 620
REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

- A. To properly conduct an operational test of the steering gear it is best done with one crew member on the bridge and the other in the steering gear room.
 - B. Ensure that operating instructions are properly posted and accurate at all operating platforms.
 - C. During the operation, be alert for unusual noise, vibration, oil leakage, water leakage and abnormal hydraulic pressures. Hunting of the system may indicate feedback problems.
 - D. Check for overheating of the pumps and motors.
 - E. Test all systems alarms and indicators. Both visual and audible. (The operation test should be conducted on each pump and on each system follow-up and non-follow-up modes).
 - F. Operate each motor and pump assembly from the bridge, the alternate control station, and steering gear room through the full range of the rudder travel. The range of rudder movement should be from 35 degrees to 30 degrees in 28 seconds.
 - G. Operate each motor and pump assembly on the normal, alternate and emergency power supplies, checking for proper operation of the manual feeder transfer switch and automatic bus transfers.
-

DEFICIENCY ACTION

REPLACE OR REPAIR DEFICIENT ITEM. ENSURE IT IS OPERATING PROPERLY

SYSTEM: AUXILIARY MACHINERY & EQUIPMENT
SUBSYSTEM: STEERING GEAR OPERATIONAL TEST

PAGE 2 of 2
ICR NUMBER: P
02

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 111.93, 176.814, 182.610, 620

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

- H. Control should be switched from bridge control to engine room control and vice versa using posted instructions.
 - I. Auxiliary steering arrangements should be tested by stimulating a power failure. The system should then be switched and tested. The time limit for the auxiliary system is 60 seconds from 15 degrees to 15 degrees. When power is secured the loss of power alarm should operate. This should be tested on both controllers.
 - J. Ensure proper indication is obtained by the helmsman by using the trick wheel (where installed).
 - K. Ensure proper rudder angle indications is provided at all control stations. Where synchro steering repeaters are used ensure the indications are the same. Visibility from the steering station and night lights shall also be checked. Emergency lighting should be checked as well.
-

DEFICIENCY ACTION

REPLACE OR REPAIR DEFICIENT ITEM. ENSURE IT IS OPERATING PROPERLY

SYSTEM: AUXILIARY MACHINERY & EQUIPMENT
SUBSYSTEM: BILGE SYSTEM

ICR NUMBER: P
04

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 182.500, 510, 520, 530

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

- A. Ensure the bilge system is capable of pumping from and draining any watertight compartment except for ballast, oil and water tanks which have acceptable means for filling and emptying independent of the bilge system.
 - B. Ensure all standing water does drain to bilge suction pipes.
 - C. Ensure that there are independent valves for each watertight compartment and they are easily accessible and operable and clearly marked for which compartment they control. Ensure the crew understands the reason for these valves and where they are located.
 - D. Passenger vessels on an international voyage or on an ocean, coastwise, or great lakes route shall be outfitted with an emergency bilge suction. If so fitted all valves should operate freely and the system adequately marked. An operational test should be conducted to ensure all bilge lines are free and able to take suction.
 - E. If the bilge systems is equipped with strainers adequate means shall be made to ensure the strainers are unobstructed and in good condition.
 - F. Any remote reach rods controlling the bilge system should be operated and ensured they are actually connected to the appropriate valve.
 - G. Instrumentation for determining pump suction and pressure should be relatively accurate and in good working order.
 - H. Test all bilge level alarms and make sure they operate properly.
-

DEFICIENCY ACTION

REPLACE OR REPAIR DEFICIENT ITEM. ENSURE IT IS OPERATING PROPERLY.

SYSTEM: ELECTRICAL SYSTEMS
SUBSYSTEM: SWITCHBOARDS

ICR NUMBER: Q
01

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46CFR 111.30, 183.330

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

- A. A general overview of the physical condition should be given to the entire switchboard.
 - B. Ensure there is a non-conductive mat or non-conducting grating in each working area in front of and behind each board.
 - C. Non-conducting handrails and guard rails should be present on the board face.
 - D. Dripshields should be present and in good physical condition.
 - E. All ground detection lights should be in working order and no grounds should be indicated.
 - F. All instrumentation (meters) should be in good working order and recently calibrated. All controls and meters should be clearly and accurately identified.
 - G. Where the generators can be paralleled all synchronizing controls and associated equipment for synchronizing generators should be functioning properly
 - H. Overcurrent devices should be clearly and accurately identified.
-

DEFICIENCY ACTION

REPLACE OR REPAIR DEFICIENT ITEM. ENSURE IT IS OPERATING PROPERLY

SYSTEM: ELECTRICAL SYSTEMS
SUBSYSTEM: SHIP'S SERVICE GENERATORS

PAGE 1 of 2
ICR NUMBER: Q
02

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46CFR 183.320, 322, 324

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

I. EACH INDIVIDUAL GENERATOR

- A. Ensure the location of the generator is receiving adequate ventilation and is as dry as possible.
 - B. Verify the operation of the voltmeter and ammeter for each generator rated at 50 volts or more.
 - C. Verify the operation of the frequency measuring device for each AC generator.
 - D. Verify a nameplate containing the information required by Article 445 or Article 430 of the NEC is attached.
 - E. Verify each generator is protected by an overcurrent device with a set value not exceeding 115% of full load rating.
-

DEFICIENCY ACTION

REPLACE OR REPAIR DEFICIENT ITEM. ENSURE IT IS OPERATING PROPERLY.

SYSTEM: ELECTRICAL SYSTEMS
SUBSYSTEM: SHIP'S SERVICE GENERATORS

PAGE 2 of 2
ICR NUMBER: Q
02

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46CFR 183.320, 322, 324

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

II. MULTIPLE GENERATOR INSTALLATIONS

- A. For non-parallel systems; verify the operation of the interlock which prevents simultaneous connection to the switchboard.
- B. For parallel systems;
 - 1. test the operation of the reverse-power or reverse-current trips,
 - 2. verify the operation of the switchboard speed control for each prime mover,
 - 3. verify the operation of the wattmeter for each generator, and
 - 4. verify the operation of the synchroscope and synchronizing lamp that has a selector switch to show synchronization for paralleling generators.

III. DUAL VOTAGE GENERATORS

- A. Verify the neutral of the voltage system is solidly connected to the switchboard's neutral bus.
 - B. Verify the neutral bus is connected to ground.
 - C. Verify ground detection;
 - 1. For AC systems verify the ammeter indicates the current in the ground connection and has a scale that accurately measures in the 0 to 10 ampere range, and verify the ammeter switch is of the spring return-to-on type.
 - 2. For DC systems verify that the zero center ammeter is in the ground connection, has a scale range of 150% of the neutral current rating and has the polarity of the ground marked.
-

DEFICIENCY ACTION

REPLACE OR REPAIR DEFICIENT ITEM. ENSURE IT IS OPERATING PROPERLY.

Subchapter T

SYSTEM: ELECTRICAL SYSTEMS
SUBSYSTEM: EMERGENCY GENERATORS

PAGE 1 of 2
ICR NUMBER: Q
03

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46CFR 183.320, 322, 324

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

I. EACH INDIVIDUAL GENERATOR

- A. Ensure the location of the generator is receiving adequate ventilation and is as dry as possible.
 - B. Verify the operation of the voltmeter and ammeter for each generator rated at 50 volts or more.
 - C. Verify the operation of the frequency measuring device for each AC generator.
 - D. Verify a nameplate containing the information required by Article 445 or Article 430 of the NEC is attached.
 - E. Verify each generator is protected by an overcurrent device with a set value not exceeding 115% of full load rating.
-

DEFICIENCY ACTION

REPLACE OR REPAIR DEFICIENT ITEM. ENSURE IT IS OPERATING PROPERLY.

SYSTEM: ELECTRICAL SYSTEMS
SUBSYSTEM: EMERGENCY GENERATORS

PAGE 2 of 2
ICR NUMBER: Q
03

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46CFR 183.320, 322, 324

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

II. MULTIPLE GENERATOR INSTALLATIONS

- A. For non-parallel systems; verify the operation of the interlock which prevents simultaneous connection to the switchboard.
- B. For parallel systems;
 - 1. test the operation of the reverse-power or reverse-current trips,
 - 2. verify the operation of the switchboard speed control for each prime mover,
 - 3. verify the operation of the wattmeter for each generator, and
 - 4. verify the operation of the synchroscope and synchronizing lamp that has a selector switch to show synchronization for paralleling generators.

III. DUAL VOTAGE GENERATORS

- A. Verify the neutral of the voltage system is solidly connected to the switchboard's neutral bus.
 - B. Verify the neutral bus is connected to ground.
 - C. Verify ground detection;
 - 1. For AC systems verify the ammeter indicates the current in the ground connection and has a scale that accurately measures in the 0 to 10 ampere range, and verify the ammeter switch is of the spring return-to-on type.
 - 2. For DC systems verify that the zero center ammeter is in the ground connection, has a scale range of 150% of the neutral current rating and has the polarity of the ground marked.
-

DEFICIENCY ACTION

REPLACE OR REPAIR DEFICIENT ITEM. ENSURE IT IS OPERATING PROPERLY.

SYSTEM: ELECTRICAL SYSTEMS
SUBSYSTEM: EMERGENCY BATTERIES / BATTERIES

ICR NUMBER: Q
04

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46CFR 183.350, 352, 354

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

- A. Verify connections to battery terminals are of the permanent type.
- B. Examine battery trays to ensure serviceability. Verify lining or construction is of a material that is resistant to damage by electrolyte.
- C. Test the ammeter connected in the charging circuit.

For a LARGE battery installation consisting of a charger having an output of more than 2kw:

- 1. Verify the locker, room or enclosed box used for the batteries is dedicated.
- 2. Verify the electric motors for the battery installation power ventilation system are Class I, Division 1, Group B or are at least 10' from the exhaust end of duct.
- 3. Test the interlock between the battery charger and the ventilation system to ensure the batteries can not be charged without ventilation.

For a SMALL battery installation consisting of a charger having an output of 2kw or less:

- 1. Verify ventilation is sufficient to dissipate the gases generated during charging.
-

DEFICIENCY ACTION

REPLACE OR REPAIR DEFICIENT ITEM. ENSURE IT IS OPERATING PROPERLY

SYSTEM: ELECTRICAL SYSTEMS
SUBSYSTEM: LIGHTING SYSTEMS

ICR NUMBER: Q
06

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46CFR 183.410, 430, 432

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

- A. Ensure each lighting fixture globe, lens or diffuser has a guard or is made of high strength material except in a location where it is not subject to damage.
 - B. Ensure each lighting fixture is not being used as a connection box for a circuit other than the branch circuit supplying the fixture.
 - C. Ensure each table lamp, desk lamp, floor lamp, or similar equipment is secured in place.
 - D. Ensure the portable battery operated lights located at the operating station and the access to the propulsion machinery space are operational.
 - E. Test the emergency lighting fitted along the line of escape to the main deck from all passenger and crew accommodation spaces located below the main deck. Ensure it is adequate.
 - F. Test the automatic activation of the emergency lighting system upon loss of the main lighting system.
 - G. Ensure all lighting fixture globes, lenses and diffusers have a high strength guard or be made of high strength material where the light may be subject to damage.
 - H. Test lighting in way of liferaft embarkation stations to ensure proper illumination of the area.
-

DEFICIENCY ACTION

REPLACE OR REPAIR DEFICIENT ITEM. ENSURE IT IS OPERATING PROPERLY

SYSTEM: ELECTRICAL SYSTEMS
SUBSYSTEM: RECEPTACLE OUTLETS

ICR NUMBER: Q
07

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED ENGINEER or his designated representative

REFERENCES: 46CFR 183.370

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

Ensure each receptacle outlet that operates at 100 volts or more has a grounding pole and that the poles are adequately grounded.

DEFICIENCY ACTION

REPLACE OR REPAIR DEFICIENT ITEM. ENSURE IT IS OPERATING PROPERLY.

SYSTEM: ELECTRICAL SYSTEMS
SUBSYSTEM: DISTRIBUTION PANELS

ICR NUMBER: Q
08

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative
REFERENCES: 46 CFR 183.330
REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

Ensure each distribution panel is adequately ventilated and protected from falling debris and dripping or splashing water.

DEFICIENCY ACTION

REPLACE OR REPAIR DEFICIENT ITEM. ENSURE IT IS OPERATING PROPERLY

SYSTEM: ELECTRICAL SYSTEMS
SUBSYSTEM: WIRING

ICR NUMBER: Q
09

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 183.340

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

- A. Examine cable and wires for signs of mechanical damage, jury rigs, dead end cables, splices, etc.
 - B. Examine cable and wire supports for corrosion or deterioration. Supports should not be spaced more than 24" apart and should not cause chafing or other damage to the cable or wire.
 - C. Ensure portable cables and wires are used in appropriate situations and are not used for a "temporary fix".
-

DEFICIENCY ACTION

REPLACE OR REPAIR DEFICIENT ITEM. ENSURE IT IS OPERATING PROPERLY

SYSTEM: ELECTRICAL SYSTEMS
SUBSYSTEM: INTERNAL COMMUNICATION SYSTEM

ICR NUMBER: Q
10

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 184.602

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

Test the fixed means of two-way communications between the operating station and the location where the means of controlling the propulsion machinery is located. This can take the form of direct voice communications, OCMI approved portable radio installation or fixed communication installation.

DEFICIENCY ACTION

REPLACE OR REPAIR DEFICIENT ITEM. ENSURE IT IS OPERATING PROPERLY

SYSTEM: ELECTRICAL SYSTEMS
SUBSYSTEM: COMPONENTS OF HAZARDOUS LOCATIONS

ICR NUMBER: Q
12

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OFFICER or his designated representative

REFERENCES: 46 CFR 183.530

REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

- A. Examine electrical equipment in spaces containing machinery powered by, or fuel tanks for, gasoline or other fuels having a flashpoint of 110F or lower. Ensure electrical equipment is explosion-proof or ignition-protected, or part of an intrinsically safe system.
 - B. Examine lockers used to store paint, oil, turpentine, or other flammable liquids. Ensure electrical equipment is explosion-proof or ignition-protected, or part of an intrinsically safe system.
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DEFICIENCY ACTION

REPLACE OR REPAIR DEFICIENT ITEM. ENSURE IT IS OPERATING PROPERLY