

# USCG MARINE SAFETY OFFICE HONOLULU

## RE-INSPECTION CHECKLIST

**VESSEL:** \_\_\_\_\_ **OFFICIAL NO.** \_\_\_\_\_

**INSTRUCTIONS:** This checklist shall be completed by a licensed master who is very familiar with the vessel and in a position of responsibility. Indicate the satisfactory inspection of each **applicable** item by **dating and initialing** the corresponding blank and filling in information where indicated. Any deficiencies or corrective actions taken shall be addressed in the space provided at the end of each section. Regulation cites have been provided for areas that may require more explanation. Also, regulations can be accessed through our web site (<http://www.aloha.net/~msohono>). **The last page of this checklist is a Chemical Testing Program Audit Form that must be completed prior to the inspection.** Questions concerning this checklist can be directed to the Inspection Department at (808) 522-8253.

**Always be aware the majority of marine casualties are human factors (human error) related.**

<u>References</u>	<u>Vessel</u>
Subchapter T (46 CFR 175-185; except as otherwise noted)	less than 100 gross tons less than or equal to 200 feet carries less than or equal to 150 passengers or overnight accommodations for less than or equal to 49 passengers
Subchapter K (46 CFR 114-122 ; except as otherwise noted)	less than 100 gross tons less than or equal to 200 feet carries 151-600 passengers or overnight accommodations for 50-150 passengers
Subchapter K' (See note below)	less than 100 gross tons greater than 200 feet carries greater than or equal to 601 passengers or overnight accommodations for greater than or equal to 151 passengers

**Note:** *Vessels subject to subchapter K' are required to comply with Parts 72 and 76 of subchapter H, Parts 114, 115, 117, 121, and 122 of subchapter K, and the applicable requirements of subchapters F and J.*

## I. DOCUMENTATION/LOGS/PUBLICATIONS

### A. Documents/Chemical Testing

\_\_\_\_\_ Ensure all applicable certificates/documentation outlined below are checked and available for immediate review by the attending marine inspector.

\_\_\_\_\_ Ensure all elements of a random drug testing program including **Random, Pre-employment**, and **Reasonable Cause** testing documentation, **Employee Assistance Program (EAP)**, and **Supervisor Training** are in accordance with 46 CFR Part 16. Have complete chemical testing program including test results on hand for inspection. **Complete the attached audit form and submit to the attending CG inspector.** (46 CFR Part 16)

\_\_\_\_\_ Review the vessel's **Certificate of Inspection (COI)**. Ensure the COI is posted under glass or transparent material, as practicable, or otherwise on board (46 CFR 176.01-40). Has the vessel been operating within the limits of its certificate? Does the actual owner/operator name and address match what is printed on the COI?

*(Note: The COI must not be laminated, as it will need to be endorsed at the satisfactory completion of the re-inspection.)*

\_\_\_\_\_ Check the vessel's **Certificate of Documentation** or **State Certificate of Registration**. Ensure it is correct and valid for the type of service the vessel is engaged in and ensure the owner/operator names and addresses match that listed on the COI. The original document must be kept on board the vessel. The annual renewal sticker must be up-to-date. The Certificate of Inspection is not valid without this documentation. (46 CFR 67.161)

Certificate of Documentation Expiration Date: \_\_\_\_\_

State Certificate of Registration Expiration Date: \_\_\_\_\_

\_\_\_\_\_ Check the vessel's **Stability Letter** - Is it posted under glass with all pages visible? Has the vessel been operated within the terms specified in this letter? Does the date of the stability letter match the date specified on the COI? (46 CFR 170.120)

Date and Port Issued: \_\_\_\_\_

Exposed, Partially Protected, or Protected waters (circle applicable)

Maximum number of passengers: \_\_\_\_\_

Maximum number of passengers on upper deck: \_\_\_\_\_

\_\_\_\_\_ Check the vessel's operators to ensure that each has a valid and original **USCG Operator's License** on board. Each operator's license should be endorsed for the vessel's route, be of sufficient tonnage, of the correct type, and must not be expired (expiration is 5 years after issue date). (46 CFR 185.10-1)

Operator: \_\_\_\_\_ Tonnage: \_\_\_\_ Propulsion: \_\_\_\_\_ Route: \_\_\_\_\_ Exp Date: \_\_\_\_

Operator: \_\_\_\_\_ Tonnage: \_\_\_\_ Propulsion: \_\_\_\_\_ Route: \_\_\_\_\_ Exp Date: \_\_\_\_

Operator: \_\_\_\_\_ Tonnage: \_\_\_\_ Propulsion: \_\_\_\_\_ Route: \_\_\_\_\_ Exp Date: \_\_\_\_

\_\_\_\_\_ If the vessel has a VHF-FM radio, check that at least one of the vessel's operators has a valid **FCC Marine Radio Operator Permit** (46 CFR 184.25-1).

Name(s): \_\_\_\_\_

Expiration Date(s): \_\_\_\_\_

\_\_\_\_\_ Does the **vessel** have a current **FCC Station License** (46 CFR 184.25-1) (valid for 5 years)? Are all **transmitters** such as radios, radars, EPIRBs, etc., presently installed on the vessel listed on the Station License? Does the vessel's call sign match the call sign printed on the COI?

Expiration Date: \_\_\_\_\_

\_\_\_\_\_ Ensure **FCC Safety Radio Certificate** is on board (46 CFR 184.25-1).

Expiration Date: \_\_\_\_\_

Deficiencies/Corrective Actions for section I-A

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**B. Plans, Lists, other Documentation**

\_\_\_\_\_ Is the written **Waste Management Plan** (vessels 40 feet or more operating beyond 3 miles from shore) being maintained? (33 CFR 151)

\_\_\_\_\_ Is the **Garbage Log** being maintained? (33 CFR 151)

\_\_\_\_\_ Are **Emergency Checkoff Lists** posted where visible to passengers and crew? (46 CFR 185.510; 122.510 K vessels)

- \_\_\_\_\_ Is a **Crew and Passenger List** maintained? This is required for a vessel making an Oceans or Coastwise voyage where (1) passengers are carried overnight or (2) if passengers are embarked/disembarked to another vessel or port. (see 46 CFR 185.502; 122.502 K vessels for details)
- \_\_\_\_\_ Is a **Passenger Count** being conducted? Except for a vessel required to have a **Crew and Passenger List** described above, the master shall keep a correct, written account of all passengers that embark/disembark. (See 185.504; 122.504 K vessels for details)
- \_\_\_\_\_ Are **Voyage Plans** maintained? This is required: if vessel has Ocean or Coastwise routes; if the vessel has overnight accommodations, making an overnight voyage. (see 46 CFR 185.503; 122.503 K vessels for details)
- \_\_\_\_\_ Are **Passenger Safety Orientations** being conducted prior to getting underway? (see 46 CFR 185.506; 122.506 K vessels for details)
- \_\_\_\_\_ Is a **Station Bill** posted? This is required for vessels more than 65 feet with a COI requiring 4 crew members at any time, including the master. (See 46 CFR 185.514; 122.515 for K vessels for details)
- \_\_\_\_\_ Passenger Safety Bill? (46 CFR 122.515; K vessels only)
- \_\_\_\_\_ Are **Maintenance Instructions for Survival Craft (life floats, buoyant apparatus, inflatable life rafts, inflatable buoyant apparatus)** on board the vessel? Required for survival craft manufactured on or after March 11, 1996. The inspection and maintenance must be logged (see 46 CFR 185.702; 122.702 K vessels for details)
- \_\_\_\_\_ Are **Weekly Maintenance and Inspections** conducted and logged? Each survival craft must be inspected to ensure its readiness for use. (see 46 CFR 185.720; 122.720 K vessels for details)
- \_\_\_\_\_ Are **Monthly Inspections** being conducted and logged? Each survival craft must be inspected monthly using the manufacturer's instructions to ensure it is complete and in good order. (see 46 CFR 185.722; 122.722 K vessels for details)
- \_\_\_\_\_ Are **Quarterly Exams of the Winch Control Apparatus** for a launching appliance being conducted and logged? Each winch control apparatus, including motor controllers, emergency switches, and limit switches, must be examined every 3 months. (see 46 CFR 185.724; 122.724 K vessels for details)
- \_\_\_\_\_ Are **Annual Inspections** being conducted and logged? Each item of lifesaving equipment with an expiration date (such as a battery) that has expired must be replaced. Batteries without stamped expiration dates must be replaced during the annual inspection. (see 46 CFR 185.726; 122.726 K vessels for details)

\_\_\_\_\_ Are **EPIRB Monthly Tests and Servicing** being performed in accordance with the manufacturer's instructions? The EPIRB battery must be replaced after the EPIRB is used or before the expiration date. The EPIRB test shall be logged. (46 CFR 185.728; 122.728 K vessels)

Deficiencies/Corrective Actions for section I-B:

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**C. Lifesaving/Emergency Drills Documentation**

\_\_\_\_\_ Is **Crew Training** for emergency drills conducted quarterly and logged? (see 46 CFR 185.420; 122.420 K vessels for details)

\_\_\_\_\_ Are **Abandon Ship and Man Overboard Drills and Training** conducted and logged? (see 46 CFR 185.520; 122.520 K vessels for details)

\_\_\_\_\_ Are **Fire Fighting Drills and Training** conducted and logged? (see 46 CFR 185.524; 122.524 K vessels for details)

Deficiencies/Corrective Actions for section I-C:

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**II. NAVIGATION EQUIPMENT/LIGHTS, NAVIGATION RULES, COMMUNICATIONS, CHARTS AND NAUTICAL PUBLICATIONS:**

\_\_\_\_\_ Check the **magnetic compass** for proper compensation and operation. Check that compass light is operational (46 CFR 184.402; 121.402 K vessels).

\_\_\_\_\_ If applicable (required), check the vessel's **radar, electronic positioning fixing device (GPS, etc.), fathometer, etc.** for proper operation. Be prepared to demonstrate the proper operation of this equipment to the marine inspector.

\_\_\_\_\_ List all bridge electronics and date tested:

<u>Type Equipment</u>	<u>Date Tested</u>
_____	_____
_____	_____
_____	_____

\_\_\_\_\_ Check the condition and proper operation of all **navigation lights**.

\_\_\_\_\_ Check **VHF** and **SSB radios** (SSB required for greater than 20 mile routes) for proper operation. The inspector may ask you to make one or more calls on each radio using proper radiotelephone procedure.

\_\_\_\_\_ Is an **Emergency Broadcast Placard** posted? A durable placard must be posted next to all radiotelephone installations with the emergency broadcast instructions and information specific to the vessel. (46 CFR 184.506; 121.506 K vessels)

\_\_\_\_\_ Check for proper operation of general alarm systems. (46 CFR 183.550;120.550 for K vessels)

\_\_\_\_\_ Check for proper operation the vessel's public address system. (46 CFR 184.610; 121.610 K vessels)

\_\_\_\_\_ Does the vessel's **whistle** produce an "efficient sound signal" as required by COLREGS 72?

\_\_\_\_\_ Check for proper sized bell as required by COLREGS 72.

\_\_\_\_\_ **Charts and Nautical Publications:** As appropriate for the intended voyage, all vessels must carry **adequate and up-to-date:**

- \_\_\_\_\_ **Navigation Rules**
- \_\_\_\_\_ **Charts**
- \_\_\_\_\_ **Coast Pilots**
- \_\_\_\_\_ **Light Lists**
- \_\_\_\_\_ **Local Notices to Mariners**
- \_\_\_\_\_ **Tide Tables**

Deficiencies/Corrective Actions for section II:

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### III. LIFESAVING/LIFESAVING RELATED PLACARDS/MARKINGS:

- \_\_\_\_\_ Use 46 CFR Parts 184 and 185 for guidance except as noted otherwise.
- \_\_\_\_\_ Ensure approved **First Aid Kit** is on board (46 CFR 184.710).
- \_\_\_\_\_ Ensure that each **life preserver** (PFD) is clean and is **Type I; CG approved**. All snaps, straps, hooks and fittings must be serviceable. Cloth coverings must not be torn or rotten. Test all snaps. Check PFD straps for dry rot. Each PFD on vessels operating greater than 20 miles from shore must have an a USCG approved **PFD light** properly attached and in good working order.
- \_\_\_\_\_ Be certain that the number of PFDs on the vessel corresponds to or exceeds the total number of passengers and crew specified on the certificate of Inspection. **Work vests** are never counted as life preservers. If carried, they must be in good condition and stowed separately.
- \_\_\_\_\_ Is the proper **Retro-reflective Tape** attached to the life jackets, buoyant apparatus, life floats and rescue boats? Each life jacket must have Type I retro-reflective material (31 square inches front and back). Each life float, buoyant apparatus and rescue boat must have retro-reflective material. (see 46 CFR 185.604 for details)

#### \_\_\_\_\_ **Life Preservers**

Number Adult: \_\_\_\_\_ Number Child: \_\_\_\_\_

#### **Buoyant Apparatus/Life Floats/Inflatable Liferrafts**

- \_\_\_\_\_ Check each **lifefloat** and **buoyant apparatus** for good overall condition and in a float free arrangement. Check for rotted lines or beackets. Check for proper nameplate and markings. Check for a **painter 100 feet long** with a properly rated weak link properly attached to the vessel. One painter may be used to attach up to 3 life floats to the vessel with one **float-free link**. Check that **paddles** (two 4-foot paddles required for lifefloats only) are in good condition, properly marked and attached to the lifefloat. Check all **grab lines** to see that they are held by **lashings of light thread** or masking tape. Be certain that any **line dispensing appliance** used to store the painter is properly positioned and will operate under emergency conditions. Lifesaving apparatuses may be covered for protection against the elements, but the cover must not be lashed so as to prevent the apparatus from floating free.
- \_\_\_\_\_ Check lifefloats and buoyant apparatus for properly rigged **float-free links** with valid **approval tags** in place. (46 CFR 180.137; 117.137 K vessels)

\_\_\_\_\_ Is an operational waterlight attached to **each** lifefloat and buoyant apparatus with an 18 feet in length lanyard?

Number on board: \_\_\_\_\_ Number persons capacity: \_\_\_\_\_

\_\_\_\_\_ Inspect **inflatable liferafts** for proper installation and current servicing in accordance with the manufacturer's instructions. Ensure each raft has received its **annual inspection** at a USCG approved service facility. Have all servicing documentation available for inspection. (46 CFR 180.130; 117.130 K vessels)

\_\_\_\_\_ Check all **hydrostatic releases** for proper installation and up-to-date inspection tags. Inspection and tagging of this device is required annually. (46 CFR 185.740; 122.740 K vessels) Note: Disposable hydrostatic releases may be used and do not require annual servicing; they have a two-year expiration.

### **Ring Life Buoys and Water Lights**

\_\_\_\_\_ One life ring must have 60 feet of line attached to it. Floating lines should be black and sunlight resistant.

\_\_\_\_\_ Vessels over 65 feet in length must have 3 **ring buoys**.

\_\_\_\_\_ Is an operational **waterlight** attached to **one** of the life rings with a 3-6 feet in length lanyard?

Number ring buoys: \_\_\_\_\_ With lights: \_\_\_\_\_ 60 FT life line: \_\_\_\_\_  
Marked w/ vessel name: \_\_\_\_\_ Retro Tape: \_\_\_\_\_

### **Distress Signals/Flares/EPIRBS**

\_\_\_\_\_ For ocean/coastwise routes, be sure there are 6 red flares and 6 orange smoke (3 and 3 for Lakes, Bays, Sounds Routes). They must be approved for the service intended (i.e., the correct type). Check all flares to be sure they are not outdated and within 42 months of the date of manufacture stamped on the flare. Substitutions are permitted. (See 46 CFR 180.68; 117.68 K vessels for details)

Flare expiration date(s): \_\_\_\_\_ Smoke expiration date(s): \_\_\_\_\_

\_\_\_\_\_ Are **Portable Watertight Containers** used for distress flares and smoke signals? Containers shall be of a bright color and clearly marked in letters at least .5 inches high: "DISTRESS SIGNALS". (46 CFR 185.614)

\_\_\_\_\_ The **EPIRB** must be installed in a float free position and stenciled with the vessel's name. A Category 1, 406 MHz EPIRB is required effective March 11, 1997 for vessels operating more than 3 miles from shore. (See 46 CFR 180.64 or 117.64 K vessels)

Battery exp. date: \_\_\_\_\_ Hydrostatic Release Expiration Date: \_\_\_\_\_

**Lifesaving Placards/Markings**

\_\_\_\_\_ Are **Life Jacket Placards** posted? Placards containing instructions for the donning of life jackets must be posted in conspicuous places that are regularly accessible and visible to the crew and passengers. (See 46 CFR 185.516; 122.516 K vessels for details)

\_\_\_\_\_ Are **Inflatable Survival Craft Placards** posted? (See 46 CFR 185.518; 122.518 K vessels for details)

\_\_\_\_\_ Are proper **Lifesaving Equipment Markings** in place? The name of the vessel must be marked or painted on each side of the bow of each rescue boat and on each life float and buoyant apparatus. The name of the vessel must be on each life jacket, ring life buoy, and EPIRB. Rescue boats, life floats, and buoyant apparatus must have the number of persons capacity. Each paddle of a life float(s) must also be marked with the vessel's name. (See 46 CFR 185.604; 122.604 K vessels for details)

\_\_\_\_\_ Are **Life Jacket Stowage Areas** properly labeled? The number and identification (adult or child) of the jackets stowed must be labeled in 2 inch letters. (See 46 CFR 185.604; 122.604 K vessels for details)

\_\_\_\_\_ Are **Escape Hatches and Emergency Exits** properly marked? Must be marked on both sides in clearly legible letters at least 2 inches high: "EMERGENCY EXIT, KEEP CLEAR". This is required unless deemed unnecessary by the OCMI. (46 CFR 185.606; 122.606 K vessels)

\_\_\_\_\_ Are **Watertight Doors and Watertight Hatches** properly marked? Doors and hatches must be marked on both sides in clearly legible letters at least 1 inch high: "WATERTIGHT DOOR - KEEP CLOSED" or "WATERTIGHT HATCH - KEEP CLOSED". This is required unless deemed unnecessary by the OCMI. (46 CFR 185.610; 122.610 K vessels)

Deficiencies/Corrective Actions for section III:

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#### IV. FIRE PROTECTION

- \_\_\_\_\_ Use 46 CFR Part 181 for guidance except as noted otherwise.
- \_\_\_\_\_ Firefighting equipment must be "suitable for marine use" if not required to be USCG approved. Items without tags, nameplates or other markings indicating suitable approvals may have to be replaced even if still serviceable.
- \_\_\_\_\_ Ensure all equipment is operable or has been properly serviced within the last 12 months and hydrostatically tested within the required time interval.
- \_\_\_\_\_ Test the hand operated portable **fire/bilge pump** with a minimum capacity of at least 5 gallons per minute. Ensure that all hoses are of sufficient length to draw water from over the side and fight a fire at any location or compartment.
- \_\_\_\_\_ Test the power driven **fire pump** if installed for proper operation. Check the pump and foundation, associated piping for leaks, corrosion, properly secured, properly mounted, loose bolts, etc. For vessels 65 feet or less with more than 49 passengers (vessels built or certificated before 12MAR96), this pump may also be connected to the bilge system so that it may serve as either a fire pump or a bilge pump. For vessels over 65 feet in length a pressure gauge must be installed at the power fire pump to measure outlet pressure, and the fire pump must be able to pump 50 gallons per minute at a pressure of 60 psi.
- \_\_\_\_\_ Check all **fire hoses** under maximum pressure. Replace all defective hoses or fittings. A suitable rack to hold the fire hose must be installed at each fire station. Vessels less than 65 ft. (certificated before 12MAR96) that are required a fire pump may have either an approved 1 1/2" commercial fire hose or a minimum 5/8" good commercial grade garden hose.  
  
Number of hoses: \_\_\_\_\_ Date tested: \_\_\_\_\_
- \_\_\_\_\_ Check the fire hose **nozzle**. For a 1 1/2" commercial fire hose the nozzle must be USCG approved. If a good commercial grade garden hose is used the nozzle must be metallic and not plastic (vessels built or certificated before 12MAR96).
- \_\_\_\_\_ The nozzles must be **attached** to the fire hoses. The fire hoses must be attached to the hydrants at all times.
- \_\_\_\_\_ Vessels with no power driven fire pump and certificated on or after 11 March 1996 must have three 2 1/2-gallon **fire buckets** with attached lanyards. Fire buckets must be labeled and stored where easily accessible.
- \_\_\_\_\_ **Fixed fire extinguishing system** - A qualified individual must inspect and test the fixed fire extinguishing system.

\_\_\_\_\_ **NOTE:** All vessels certificated prior to 12MAR96 with a hull or a machinery space boundary bulkhead or deck, composed of wood or fiber reinforced plastic, or sheathed on the interior in fiber reinforced plastic, must have a **fixed fire extinguishing system installed by 11 March 1999.**

\_\_\_\_\_ Ensure there is a method of **effectively** closing off all forced and natural ventilation to the engine room in case of fire. This includes shutting off blowers and closing all openings.

\_\_\_\_\_ If installed, **test** all automatic engine shutdowns, ventilation blower shutdowns, time delays and alarms.

\_\_\_\_\_ Vessels carrying more than 149 passengers must meet and maintain **structural fire protection** standards such as: insulation, fire screen doors, ventilation dampers, and fire loads.

\_\_\_\_\_ Check all **fixed fire extinguishers** for rusty or pitted cylinders (especially on the bottom). Check to see that cylinders are mounted and not touching the deck. Check date stamped on cylinder shoulder to see if hydrostatic testing is required (i.e., at 5-year intervals). Weigh to determine if the unit is fully charged.

\_\_\_\_\_ Fixed fire extinguishing system: **Date serviced:** \_\_\_\_\_

\_\_\_\_\_ Cylinder hydrostatic **test date(s):** \_\_\_\_\_

\_\_\_\_\_ **Hand portable fire extinguishers** - must be examined and tagged annually by a certified vendor.

\_\_\_\_\_ Date **certified by vendor:** \_\_\_\_\_

\_\_\_\_\_ Crew inspections must be conducted monthly in accordance with the National Fire Protection Agency standard 10 "Portable Fire Extinguishers." Inspect for: Correct **number and size** of required portable extinguishers located in designated spaces free from obstruction; approved types: **B: C, Size I, or II** with USCG approval number; **seals and tamper indicators** not broken or missing; look for obvious **physical damage**, corrosion, leaks or clogged discharge nozzle; **weigh cylinder** and verify weight matches the weight listed on the label (must be recharged if weight loss of charge exceeds 10%); verify that the **pressure gauge** (except CO2 extinguishers) is in the operable range; and verify that operating instructions on nameplate are legible and facing outward.

\_\_\_\_\_ Date **last inspected by crew:** \_\_\_\_\_

\_\_\_\_\_ Each fire extinguisher must have a suitable **mounting bracket** to ensure that the extinguisher is held properly. Ensure the bracket is approved as a unit with the extinguisher

\_\_\_\_\_ If the vessel is over 65 feet, check that a suitable **fire axe** labeled with vessel's name is on board adjacent to pilot house.

Deficiencies/Corrective Actions for section IV:

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**V. MACHINERY OPERATION:**

\_\_\_\_\_ Use 46 CFR Part 182, except as noted otherwise for guidance in machinery installation and inspections.

\_\_\_\_\_ Are main propulsion and auxiliary machinery being routinely maintained in accordance with manufacturer instructions? **Describe last maintenance:**

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\_\_\_\_\_ Test propulsion engine shutdown at operating station. Required for all vessels. (46 CFR 184.620)

\_\_\_\_\_ Test the two independent means of propulsion engine control for single screw vessels. Means of control required: speed, direction of shaft rotation, and shutdown. (46 CFR 184.620)

\_\_\_\_\_ Examine the **main engine(s)** and **generator(s)** for proper operation while engines are operating at normal load. Check and correct any leaks (fuel, oil, water, exhaust), vibration, or unusual noise. Check engine foundations for sound condition and proper tightness.

\_\_\_\_\_ Check the marine gear(s) for proper operation ahead, neutral and astern. Examine propulsion shafting packing glands for excessive leakage, correct as needed.

\_\_\_\_\_ Examine and check proper operation of all engine and marine gear controls and linkages from the operating station to the engine/marine gear connection.

- \_\_\_\_\_ Examine all flex hoses to ensure they are of the approved type, and are in good serviceable condition. Are flex hoses being changed at manufacturer recommended intervals? Is all piping and flex hoses properly supported, protected against vibration and not chafed?
  
- \_\_\_\_\_ Ensure flame shields and fire sleeves are properly installed (as required) on all fuel, oil and hydraulic pipe connections and flex hoses.
  
- \_\_\_\_\_ Examine engine exhaust system for leaks with engines operating. Check for proper installation and condition of piping, mufflers and supports. Ensure the piping is properly insulated (lagged) with no hot surfaces exposed. All exhaust flex hoses shall have double corrosion resistant clamps at each connection.
  
- \_\_\_\_\_ Check turbochargers and dry exhaust manifolds for **insulating blankets** or similar devices to prevent fires from heat radiated from these surfaces.
  
- \_\_\_\_\_ Examine the condition of engine starting systems (electric, hydraulic, pneumatic) and check for proper operation.
  
- \_\_\_\_\_ Test (repair if necessary) all required **safety devices** (overspeed trips, low oil pressure, high water temperature) on main engines and generators.
  
- \_\_\_\_\_ Examine condition (make permanent repairs as needed) of sea chests, through hull fittings, sea water strainers and sea valves. All sea valves shall be exercised. All seawater flex hoses shall have double corrosion resistant clamps at each connection.
  
- \_\_\_\_\_ Inspect all **valve handles**. Replace broken handles and hand wheels. All should be properly tagged or identified.
  
- \_\_\_\_\_ Inspect all **gauges** (oil pressure, water temperature) and **tachometers** in the engine room and the pilothouse for proper operation and calibration.
  
- \_\_\_\_\_ Ensure protective guards and rails are installed around rotating shafts, pulleys and sprockets.
  
- \_\_\_\_\_ Examine condition of the **steering system**, main & auxiliary. Check for proper operation, hard-over port to hard-over starboard. All linkages shall be double nutted, cotter pinned or have nylock nuts. Examine the condition of the rudderstock, bearings, packing glands and rudder angle indicator.  
  
Type of steering (i.e. hand-hydraulic): \_\_\_\_\_
  
- \_\_\_\_\_ Examine supply and exhaust ventilation ducts and blowers of machinery spaces. Ducts shall be rigid, fire proof and gas tight from end to end. One supply/one exhaust for diesel machinery. Two supply/two power exhaust for gasoline machinery. Must have a blower interlock switch for gasoline machinery.

- \_\_\_\_\_ Check for **protective screens** on all fans and blowers.
- \_\_\_\_\_ Ensure the machinery space boundaries are vapor tight from the accommodations areas.
- \_\_\_\_\_ Examine condition of the fixed (hand/power) bilge system (pumps, piping, valves and strainers). Check for proper operation by taking suction from each watertight space. Vessels with more than 49 passengers must have a power pump (25 GPM>Gallons Per Minute) with 1" metallic piping. Vessels more than 65' must have two power pumps (50 GPM) with 1" metallic piping.
- \_\_\_\_\_ Examine and operate the collision bulkhead bilge suction cut off valve (if installed).
- \_\_\_\_\_ Examine condition of the hand portable bilge/fire pump. Check for proper operation by drawing suction from the sea. Ensure adequate length suction and discharge hoses are installed. The suction hose shall be fitted with a strainer.
- \_\_\_\_\_ Examine ballast system (pumps, piping, valves and tanks) and check for proper operation.
- \_\_\_\_\_ Examine **air receivers** and **relief valves**. Ensure the relief valves are of the proper size and setting. Note: Air receivers are subject to CG internal exam or 1.25 X maximum allowable working pressure (MAWP) hydro testing triennially.  
 Last date of air receiver examined/tested: \_\_\_\_\_  
 MAWP of air receiver: \_\_\_\_\_ Relief valve set: \_\_\_\_\_ PSI
- \_\_\_\_\_ The **hot water heater** must be equipped with an operating safety valve of the proper size and setting.
- \_\_\_\_\_ The potable water system (including storage tank) must be completely independent and must not be connected to any other system.

Deficiencies/Corrective Actions for section V:

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## VI. FUEL and POLLUTION:

- \_\_\_\_\_ Fuel system: examine condition of tanks, piping, flex hoses, heat deflectors, fuel filters and strainers. Check all bulkhead and deck penetrations. (46 CFR 182.435-458)  
Check which applies: Gasoline \_\_\_\_\_ Diesel \_\_\_\_\_
- \_\_\_\_\_ Ensure fuel lines and hoses meet the requirements of 46 CFR 182.455. If flexible hose is used it must meet the requirements of 46 CFR 182.720(e).
- \_\_\_\_\_ Inspect and test all **emergency fuel shutoffs**. Ensure the handle or hand wheel, reach rod, linkage and valve work. Valve must be located at tank connection and be operable from outside the tank space. A shutoff valve must also be in place at the engine for servicing. (46 CFR 182.455(b)(4))
- \_\_\_\_\_ Are Remote Fuel Shutoff valves properly marked? Must be marked in clearly legible letters at least 1 inch high indicating purpose of the valve and direction of operation. (46 CFR 185.608)
- \_\_\_\_\_ Check to see that the fuel tank vent **flame safety screens** (30x30 metallic, corrosion resistant mesh - not insect screen) are correctly installed (must be removable) on **all fuel and sewage vents**. (46 CFR 182.450 (e))
- \_\_\_\_\_ Check ventilation of fuel tank spaces. Fuel tank spaces of less than 500 cu. ft. require a 1" goose neck; larger spaces require a 2" gooseneck. (46 CFR 182.470)
- \_\_\_\_\_ Ensure boundaries between fuel tank space and accommodations spaces are vapor tight. (46 CFR 177.405(c)).
- \_\_\_\_\_ If a flexible hose fill pipe section is used, it must overlap metallic pipe ends at least 1 times the pipe diameter and must be secured at each end by double clamps and bonded. Inspect the grounding wire connecting the fuel fill pipe and the fuel tank. Be sure that grounding wires or equivalents are available for ship-shore connections during fueling. (46 CFR 182.445(g))
- \_\_\_\_\_ Inspect fuel lines for leaks and for proper flexible connections to prevent fuel line damage by vibration. Ensure double clamps are installed. (46 CFR 455)
- \_\_\_\_\_ Check for fuel containment devices (i.e. buckets etc.) under fuel tank (overflow) vents.
- \_\_\_\_\_ Post oil discharge pollution prevention placards required by 33 CFR 155.450 near overboard discharges and/or bilge pump controls.
- \_\_\_\_\_ Clean all traces of oil and fuel from the bilge. Do not pump it overboard. No intentional discharge of oil into the bilge is allowed. (33 CFR 155.770)

- \_\_\_\_\_ Are MARPOL V Pollution Placards posted and visible to crew and passengers?
- \_\_\_\_\_ Ensure proper installation and operation of Marine Sanitation Device (MSD). (33 CFR 159)
  - Check which applies: Type I\_\_\_\_\_ Type II\_\_\_\_\_ Type III\_\_\_\_\_
- \_\_\_\_\_ Check sewage system for proper operation and sign indicating no discharge within 3 miles of shore.
- \_\_\_\_\_ Ensure there is a means to lock sewage overboard discharge.

Deficiencies/Corrective Actions for section VI:

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**VII. ELECTRICAL SYSTEM, ELECTRIC APPLIANCES, AND ELECTRONICS:**

*(Note: It may be advisable to have an electrician check your vessel before the Coast Guard inspection. All electrical equipment, including alarms, must operate properly.)*

- \_\_\_\_\_ Use **46 CFR Part 183** and **46 CFR 111-113** for specific guidance in electrical installations.
- \_\_\_\_\_ Check all **generators** and their parallel operation, or interlock between ship's service generators and/or shore power, reverse power relay, wiring, junction boxes, meters (voltage, amperage, and hertz), foundations, ground detection, pulleys, drive belts, and guards.
- \_\_\_\_\_ Check all **motors**, wiring, plug connections, junction boxes, foundations, pulleys, drive belts, and guards.
- \_\_\_\_\_ Check all **electrical wiring**. Ensure no "dead end" wires or splices outside of junction boxes. Splices and taps must be made in junction boxes. Check for proper support with metallic bands no less than 24" apart, bulkhead/deck penetrations are watertight; no chafing. Check all electrical wiring for proper grounding; no "jury rigs". Wire nuts are not authorized.
- \_\_\_\_\_ Check the **emergency lighting system** for proper operation, including the below deck automatic lighting that is activated in case of power failure.

- \_\_\_\_\_ Inspect all **lights** and **switches** for proper operation. All light fixtures should have proper guards and globes.
- \_\_\_\_\_ Inspect all **telephones, general alarms, and public address systems** (if installed) for proper operation. Check all **engine alarm, fire alarm and high water level bilge alarm systems** for complete and correct operation.
- \_\_\_\_\_ Insulate **antenna connections**.
- \_\_\_\_\_ Check **overload/overcurrent protection** for proper size and installation (fuses, circuit breakers, disconnect switches and wire connections to each overload device).
- \_\_\_\_\_ Check all **distribution panels**. No openings authorized (dead front). Are all electrical panel boxes (switchboards, distribution panels) shielded to prevent touching live wires? Are panel boxes provided with a directory or listing of all circuits they control?
- \_\_\_\_\_ A rubber mat and a wooden railing to prevent electrical shock must be located in front and rear of the electrical switchboard.
- \_\_\_\_\_ Storage **batteries** must be installed in lead lined or fiberglass trays to prevent damage by battery acid. Batteries must be secured in place to prevent shifting.
- \_\_\_\_\_ Storage **battery boxes** must have fitted tops that protect them from short-circuiting by falling metallic objects.
- \_\_\_\_\_ Storage batteries must be properly ventilated and have a minimum of 10" headroom.
- \_\_\_\_\_ Check **battery emergency disconnect switches** are installed and operable.
- \_\_\_\_\_ **Battery terminals** must be of the soldered lug type. No spring clips or temporary clamps are permitted.
- \_\_\_\_\_ Check **battery charger and ammeter**. (If shore powered, must have an isolation transformer.)
- \_\_\_\_\_ Test emergency means for stopping ventilating fans and air conditioning units.
- \_\_\_\_\_ Check shore power connection, power disconnect, receptacle or box.
- \_\_\_\_\_ Check for required portable flashlights; (1) at helm and (1) at engine room access. (46 CFR 183.430)
- \_\_\_\_\_ Check accessories such as receptacles, outlets, switches, and sockets.

Deficiencies/Corrective Actions for section VII:

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**VIII. VESSEL CONTROL AND MISCELLANEOUS SYSTEMS AND EQUIPMENT:**

- \_\_\_\_\_ Use 46 CFR Part 184 for guidance except as noted otherwise.
  - \_\_\_\_\_ Check cooking equipment:
    - \_\_\_\_\_ Liquefied petroleum gas (LPG) installation meets ABYC A-1
    - \_\_\_\_\_ Compressed natural gas (CNG) installation meets ABYC A-22
      - \_\_\_\_\_ CNG containers not stored in accommodation area, machinery spaces, bilge's or other enclosed spaces
      - \_\_\_\_\_ CNG cylinders, regulating equipment and safety equipment meet installation, stowage and testing requirements of NFPA 302 (6-5.12)
      - \_\_\_\_\_ Stoves not used or stowed with attached CNG cylinders as prohibited in NFPA 302 (6-5.1)
  - \_\_\_\_\_ LPG or CNG installation meets Chapter 6 of NFPA 302 (not required to meet 6-5.12.1.1(a) and 6-5.4)
    - \_\_\_\_\_ LPG or CNG are odorized in accordance with ABYC A-1 and A-22
    - \_\_\_\_\_ LPG cylinders are vapor withdrawal type and marked and mounted in accordance with ABYC A-1
    - \_\_\_\_\_ CNG containers not stored in accommodation area, machinery spaces, bilge's or other enclosed spaces
  - \_\_\_\_\_ Remote shutoff valve installed between fuel tank and point where fuel supply line enters enclosed portion of vessel
- Check cooking appliances:
- \_\_\_\_\_ Heavy duty hinges and locking devices on doors
  - \_\_\_\_\_ Installed to prevent movement in heavy seas
  - \_\_\_\_\_ Means to collect grease or fat and prevent spillage on wiring or deck
  - \_\_\_\_\_ Grab rails installed where necessary
  - \_\_\_\_\_ Sea rails with suitable barriers installed on cooking range
  - \_\_\_\_\_ Electric connections drip proof

Check heating equipment:

- \_\_\_\_\_ Heater constructed and installed to prevent contact with combustible material
- \_\_\_\_\_ Electric space heater provided with thermal cutout to prevent overheating
- \_\_\_\_\_ Each heater element of enclosed type and element case or jacket made of corrosion resistant material

Check ground tackle and mooring lines:

- \_\_\_\_\_ Suitable anchor and attached anchor line in good condition, properly secured, and shackles moused
- \_\_\_\_\_ Inspect anchor winch and windlass. Check electrical connections and test motor, brake, and controls for proper operation
- \_\_\_\_\_ Offshore mooring in good condition and properly secured and moused
- \_\_\_\_\_ Suitable number and size of mooring lines in good condition and properly spliced

Check Accommodations (Part 177):

- \_\_\_\_\_ Inspect all handrails, lifelines, and bulwark safety chains for breaks, cracks, or looseness.
- \_\_\_\_\_ Check ladders and stairs for broken, cracked, or loose rungs or stairs
- \_\_\_\_\_ Means of escape (two for each space) clear of obstructions; doors/hatches operable from either side, emergency exits marked "EMERGENCY EXIT, KEEP CLEAR" in 2" letters.
- \_\_\_\_\_ Perform sanitary inspection of accommodations, quarters, galleys, serving pantries, and toilet and washing spaces

Check watertight integrity (Part 179):

- \_\_\_\_\_ Port lights have inside, hinged dead covers
- \_\_\_\_\_ Inspect watertight doors and hatches for operable securing devices and adequate hinges and captive chains. Inspect gaskets for deteriorating rubber and paint (not allowed) and replace as necessary
- \_\_\_\_\_ Freeing ports or scuppers clear of obstructions
- \_\_\_\_\_ Cracked or broken window glass replaced in accordance with Part 177

Check running and standing rigging:

- \_\_\_\_\_ Date of last survey: \_\_\_\_\_
- \_\_\_\_\_ Check mast for corrosion, wood rot, stability and connection to mast step
- \_\_\_\_\_ Check mast step for corrosion, wood rot or delamination around mount
- \_\_\_\_\_ Check boom for corrosion or cracks
- \_\_\_\_\_ Check stays for fraying and kinks
- \_\_\_\_\_ Check chain plates for cracks, corrosion, wood rot or delamination around mounts
- \_\_\_\_\_ Check pressed fittings for movement or looseness and pitting
- \_\_\_\_\_ Check rigging screws for rust, wear and tightness
- \_\_\_\_\_ Check condition and operation of all sails underway

Deficiencies/Corrective Actions for section VIII:

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Have any modifications been performed on the vessel since the last Coast Guard Inspection? If so, use the space below to describe **any** modifications.

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I have witnessed or examined all applicable items on this checklist and found them to be satisfactory and meeting the intent of the required regulations. Items that were found to be unsatisfactory and currently remain unsatisfactory have been addressed as well as deficient items that were corrected in the spaces provided at the end of each section.

Print name and title: \_\_\_\_\_

Signature and date: \_\_\_\_\_