<table>
<thead>
<tr>
<th>Name of Vessel</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Official Number</td>
<td></td>
</tr>
<tr>
<td>Date Completed</td>
<td>Location</td>
</tr>
<tr>
<td>SOLAS Certificates Issued</td>
<td></td>
</tr>
<tr>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Route</td>
<td></td>
</tr>
<tr>
<td>Oceans</td>
<td>Limited Coastwise</td>
</tr>
<tr>
<td>Coastwise</td>
<td>Great Lakes</td>
</tr>
<tr>
<td>Inspection Type</td>
<td></td>
</tr>
<tr>
<td>Inspection for Certification (COI)</td>
<td>Annual Inspection</td>
</tr>
<tr>
<td>Drydock Inspection</td>
<td></td>
</tr>
<tr>
<td>Inspectors</td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td>2.</td>
</tr>
</tbody>
</table>
# Drug & Alcohol Program Checklist

<table>
<thead>
<tr>
<th>Inspection Item</th>
<th>Applicable Regs.</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Do crew members know who the Designated Employee Representative (DER) is?</td>
<td>49 CFR 40.3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Is there a copy of the company’s policy or policy statement aboard?</td>
<td>46 CFR 16.401</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Are crew members aware of where to obtain Employee Assistance information?</td>
<td>46 CFR 16.401</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Has supervisory and general crew member drug awareness training been conducted?</td>
<td>46 CFR 16.401</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Are Hotline Numbers posted in a common space?</td>
<td>46 CFR 16.401</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Knowledge of where to go or how to get drug and alcohol testing accomplished in</td>
<td>46 CFR 4.06</td>
<td></td>
<td></td>
</tr>
<tr>
<td>the event of a Serious Marine Incident (2hr testing for alcohol; 32 hr testing</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>for drugs)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Are Alcohol Testing Devices kept onboard?</td>
<td>46 CFR 16.240</td>
<td></td>
<td></td>
</tr>
<tr>
<td>46 CFR 4.06</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Were crew members pre-employment tested?</td>
<td>46 CFR 16.210</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Have crew members been randomly tested this year?</td>
<td>46 CFR 16.230</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Program Information

**Name of Consortium/TPA:**
- □ “Self-Run Program”

**SMI Testing Facility**
- *Must Test Drugs & Alcohol*

**24hr SMI Testing Facility:**
- □ “Same As Above”

**Drug & Alcohol Program Compliant?**
- □ Program Compliant
  - □ ______ items corrected on-scene
- □ Program Not Compliant
  - □ Full Audit Recommended
  - □ 835 No-Sail issued

## Conversions:

### Distance and Energy

<table>
<thead>
<tr>
<th>Unit</th>
<th>Conversion Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kilowatts (kW)</td>
<td>X 1.341 = Horsepower (hp)</td>
</tr>
<tr>
<td>Feet (ft)</td>
<td>X 3.281 = Meters (m)</td>
</tr>
<tr>
<td>Long Ton (LT)</td>
<td>X 0.98421 = Metric Ton (t)</td>
</tr>
</tbody>
</table>

### Liquid (Note: Values are approximate.)

<table>
<thead>
<tr>
<th>Liquid</th>
<th>bbl/LT</th>
<th>m³/t</th>
<th>bbl/m³</th>
<th>bbl/ℓ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshwater</td>
<td>6.40</td>
<td>1.00</td>
<td>6.29</td>
<td>6.29</td>
</tr>
<tr>
<td>Saltwater</td>
<td>6.24</td>
<td>.975</td>
<td>6.13</td>
<td>5.98</td>
</tr>
<tr>
<td>Heavy Oil</td>
<td>6.77</td>
<td>1.06</td>
<td>6.66</td>
<td>7.06</td>
</tr>
<tr>
<td>DFM</td>
<td>6.60</td>
<td>1.19</td>
<td>7.48</td>
<td>8.91</td>
</tr>
<tr>
<td>Lube Oil</td>
<td>7.66</td>
<td>1.20</td>
<td>7.54</td>
<td>9.05</td>
</tr>
</tbody>
</table>

### Weight

<table>
<thead>
<tr>
<th>Unit</th>
<th>Conversion Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Long Ton = 2240 lbs</td>
<td>1 Metric Ton = 2204 lbs</td>
</tr>
<tr>
<td>1 Short Ton = 2000 lbs</td>
<td>1 Cubic Foot = 7.48 gal</td>
</tr>
<tr>
<td>1 Barrel (oil) = 5.61 ft = 42 gal = 6.29 m³</td>
<td>1 psi = 0.06895 Bar = 2.3106 ft of water</td>
</tr>
</tbody>
</table>

### Temperature: Fahrenheit = Celsius (°F = 9/5 °C + 32 and °C = 5/9 (°F – 32))

<table>
<thead>
<tr>
<th>°F</th>
<th>°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>-17.8</td>
</tr>
<tr>
<td>32</td>
<td>0</td>
</tr>
<tr>
<td>40</td>
<td>4.4</td>
</tr>
<tr>
<td>50</td>
<td>10.0</td>
</tr>
<tr>
<td>60</td>
<td>15.6</td>
</tr>
<tr>
<td>70</td>
<td>21.1</td>
</tr>
</tbody>
</table>

### Pressure: Bars = Pounds per square inch

<table>
<thead>
<tr>
<th>Bar</th>
<th>psi</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>14.5</td>
</tr>
<tr>
<td>2</td>
<td>29.0</td>
</tr>
<tr>
<td>3</td>
<td>43.5</td>
</tr>
<tr>
<td>4</td>
<td>58.0</td>
</tr>
<tr>
<td>5</td>
<td>72.5</td>
</tr>
<tr>
<td>6</td>
<td>87.0</td>
</tr>
<tr>
<td>7</td>
<td>101.5</td>
</tr>
<tr>
<td>8</td>
<td>116.0</td>
</tr>
<tr>
<td>9</td>
<td>130.5</td>
</tr>
<tr>
<td>10</td>
<td>145.0</td>
</tr>
</tbody>
</table>
Total Time Spent Per Activity:

### Regular Personnel (Active Duty)

<table>
<thead>
<tr>
<th>ACTIVITY TYPE</th>
<th>ACTIVITY TRAINING</th>
<th>(PERS) MI</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOTAL ADMIN HOURS</td>
<td>TOTAL TRAVEL HOURS</td>
<td></td>
</tr>
</tbody>
</table>

### Reserve Personnel

<table>
<thead>
<tr>
<th>ACTIVITY TYPE</th>
<th>ACTIVITY TRAINING</th>
<th>(PERS) MI</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOTAL ADMIN HOURS</td>
<td>TOTAL TRAVEL HOURS</td>
<td></td>
</tr>
</tbody>
</table>

### Auxiliary Resources

<table>
<thead>
<tr>
<th>TOTAL BOAT HOURS</th>
<th>TOTAL AIRCRAFT HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Use of K-Boat Inspection Book:**

This inspection book is intended to be used as a job aid by Coast Guard marine inspectors during inspections of U.S. flagged small passenger vessels subject to Subchapter K (vessels under 100 GT, carrying more than 150 passengers or more than 49 overnight passengers). The lists contained within this book are not intended to limit the inspection. Each marine inspector should determine the depth of inspection necessary. A checked box should be a running record of what has been inspected. It does not imply that the entire system has been inspected or that all or any items are in full compliance. This job aid does not constitute part of the official inspection record.

This document does not establish or change Federal laws or regulations. References given are only general guides. Refer to IMO publications, CFRs, NVICs or any locally produced cite guides for specific regulatory references. Not all items in this book are applicable to all vessels.

**NOTE:** Guidance on how to conduct inspections of U.S. flagged small passenger vessels can be found in the Marine Safety Manual (MSM) Volume II, Chapter B1: Inspection of Vessels for Certification. All MSM cites listed in this book refer to MSM Volume II unless otherwise indicated.

### Pre-inspection Items:
- Review MISLE records.
  - Vessel Critical Profile
  - COI
- Obtain copies of forms to be issued.

### Post-inspection Items:
- Issue letters/certificates to vessel.
- Complete MISLE entries.
- Initiate Report of Violation (ROV) if necessary

---

### Deficiency Summary Worksheet:

<table>
<thead>
<tr>
<th>Name of Vessel</th>
<th>VIN</th>
<th>Deficiency</th>
<th>Req’t. Issued / Date Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
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<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Section 7: Appendices

Recommended US Vessel Deficiency Procedures:

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Identify deficiency.</td>
</tr>
<tr>
<td>2</td>
<td>Inform vessel representative.</td>
</tr>
<tr>
<td>3</td>
<td>Record on the <em>Deficiency Summary Worksheet</em> (next page).</td>
</tr>
<tr>
<td>4</td>
<td>If deficiency is corrected prior to end of inspection, go to Step 7.</td>
</tr>
<tr>
<td>5</td>
<td>If deficiency is unable to be corrected prior to end of inspection, issue CG-835 in accordance with table below.</td>
</tr>
<tr>
<td>6</td>
<td>Enter CG-835 data in MISLE.</td>
</tr>
</tbody>
</table>

**IF deficiency:**

<table>
<thead>
<tr>
<th>THEN issue CG-835:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Does NOT immediately impact crew/passenger safety, security, hull seaworthiness, or the environment, e.g.,</strong></td>
</tr>
<tr>
<td>- Missing placards</td>
</tr>
<tr>
<td>- Non-metallic expansion joints more than 10 years in service</td>
</tr>
<tr>
<td>That provides a specific time for correcting deficiency, e.g.,</td>
</tr>
<tr>
<td>- &quot;X&quot; number of days</td>
</tr>
<tr>
<td>- At next drydock</td>
</tr>
<tr>
<td><strong>Allows vessel operations to be MODIFIED to meet less stringent requirements, e.g.,</strong></td>
</tr>
<tr>
<td>- Expired international certificates</td>
</tr>
<tr>
<td>- Automation defect</td>
</tr>
<tr>
<td>- Insufficient lifesaving equipment</td>
</tr>
<tr>
<td>That restricts operation of vessel to meet current vessel conditions, e.g.,</td>
</tr>
<tr>
<td>- Reduced route</td>
</tr>
<tr>
<td>- Increased crew</td>
</tr>
<tr>
<td>- Fewer passengers</td>
</tr>
<tr>
<td><strong>DOES immediately impact crew/passenger safety, security, hull seaworthiness, or the environment, and cannot be modified to meet less stringent requirements, e.g.,</strong></td>
</tr>
<tr>
<td>- Missing or defective firefighting equipment</td>
</tr>
<tr>
<td>- Structural defect or damage</td>
</tr>
<tr>
<td>That requires the deficiency to be corrected prior to operating vessel (&quot;NO SAIL&quot; item), e.g.,</td>
</tr>
<tr>
<td>- Prior to carrying passengers</td>
</tr>
<tr>
<td>- Prior to carrying cargo</td>
</tr>
</tbody>
</table>

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### Section 1: Administrative Items

#### IMO Applicability Dates:

<table>
<thead>
<tr>
<th>Reference</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOLAS 1960</td>
<td>26 MAY 65</td>
</tr>
<tr>
<td>SOLAS 1974</td>
<td>25 MAY 80</td>
</tr>
<tr>
<td>1978 Protocol to SOLAS 1974</td>
<td>01 MAY 81</td>
</tr>
<tr>
<td>1981 Amendments (II-1 &amp; II-2)</td>
<td>01 SEP 84</td>
</tr>
<tr>
<td>1983 Amendments (III)</td>
<td>01 JUL 86</td>
</tr>
<tr>
<td>Various additional amendments to SOLAS</td>
<td></td>
</tr>
<tr>
<td>MARPOL 73/78 Annex I</td>
<td>02 OCT 83</td>
</tr>
<tr>
<td>MARPOL 73/78 Annex V</td>
<td>31 DEC 88</td>
</tr>
<tr>
<td>MARPOL 73/78 Annex VI</td>
<td>19 MAY 05</td>
</tr>
<tr>
<td>COLREGS 1972</td>
<td>15 JUL 77</td>
</tr>
<tr>
<td>Various additional amendments to COLREGS</td>
<td></td>
</tr>
<tr>
<td>Load Line 1966</td>
<td>21 JUL 68</td>
</tr>
<tr>
<td>STCW 1978</td>
<td>28 APR 84</td>
</tr>
<tr>
<td>1991 Amendments</td>
<td>01 DEC 92</td>
</tr>
<tr>
<td>1994 Amendments</td>
<td>01 JAN 96</td>
</tr>
<tr>
<td>1995 Amendments</td>
<td>01 FEB 97</td>
</tr>
</tbody>
</table>

- Hull Maintenance and Condition Assessment Program:
  - Preventative maintenance plan
  - Annual hull condition assessment

- Preparatory meeting

- Duration of underwater survey

- Site selection:
  - Sufficient water depth
  - Underwater hazards
  - "Clear box"

- Plans or drawings:
  - Shell openings
  - Docking plugs
  - Bilge keels
  - Welded seams and butts
  - Appendages
  - Anodes
  - Rudder
  - Propeller
  - Reference points
  - Watertight and oiltight bulkheads

#### Underwater Survey:

- Preliminary examination
  - Third party
  - Divers

- Underwater hull exam
  - Third party supervised
  - Ultrasonic gaugings

- On-site survey

Notes: ____________________________________________________
_________________________________________________________
_________________________________________________________
_________________________________________________________
_________________________________________________________
_________________________________________________________
Section 6: Special Drydock Extension Underwater Survey

NOTE: Drydock extensions of up to 30 months are available to steel or aluminum K-boats that operate on certain low-risk routes in fresh water. Guidance for conducting these surveys is found in MSM Vol. II/B3.A.4.d.

WARNING: ALL passengers must be removed from vessel prior to removal of sea valves.

Review of Application for Underwater Survey:

- Submitted 90 days before survey date
- Identify diving contractor
  - Number of divers
  - Type of diving equipment
  - NDT and repair capabilities
- Copy of diving operations manual
  - Means of waterborne diver support
- Means of taking rudder bearing clearances
- Sea chest blanks
- Letter from master/chief engineer/person-in-charge
- Diving personnel/equipment
  - NDT qualifications
  - Repair qualifications
  - Video / audio equipment
  - Coast Guard and OSHA safety regulations
- Hull preparation
  - Cleaning method ________________
  - Hull openings permanently marked

Notes: ____________________________________________________
_________________________________________________________
_________________________________________________________
_________________________________________________________
_________________________________________________________
_________________________________________________________

Involved Parties & General Information:

Vessel’s Representatives

_________________________________________________________
_________________________________________________________

Phone Numbers

Owner—Listed on DOC (if applicable), or COFR

______________

______________

______________

______________

No Change

Operator

______________

______________

______________

______________

No Change
Company Security Officer

- Name: 
- Title: 
- Email: 
- Phone: 
- Fax: 
- Company: 
- Address: 
- City: 
- State: 
- Zip: 
- Contact Person: 

☑️ No Change

Vessel Security Officer

- Name: 
- Title: 
- Email: 
- Phone: 
- Fax: 
- Company: 
- Address: 
- City: 
- State: 
- Zip: 
- Contact Person: 

☑️ No Change

Vessel Information:

<table>
<thead>
<tr>
<th>Last Drydocking Date</th>
<th>Next Drydocking Date</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Location of Last Drydocking</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Built Date (use delivery date)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Overall Length (in feet)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Maximum Passengers Allowed</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Overnight Accommodations</th>
</tr>
</thead>
</table>

☑️ Yes ☐ No If yes, how many? ____________

- Propeller(s) 46 CFR 115.610
  - Locknuts
  - Rope guard

- Tailshaft(s) 46 CFR 115.630
  - Stern tube and gland
  - Key and keyway
  - Shaft sleeve or liner
  - Struts and strut bearings

- Valves and Through-Hull Fittings: MSM Ch. B3.D.
  - Sea chests, spool pieces, through-hull fittings 46 CFR 115.610
    - Strainers removed
    - Welds
    - Strainer fastenings
    - Fastenings
    - Branch connections
  - Sea valves 46 CFR 115.610
    - Fitted where required
    - Opened for examination
    - Body
    - Guides
    - Threads
    - Seat
    - Stems
    - Discs
    - Plug cocks
    - Holding down bolts
    - Closure tested (local and/or remote)

- Ground Tackle: 46 CFR 121.300
  - Proper ground tackle
    - Anchors
    - Cables

Notes: ____________________________________________________
_________________________________________________________
_________________________________________________________

44
**Watertight Integrity:**

**NOTE:** Guidance on watertight and weathertight inspections can be found in MSM Volume II, Chapter 6.F.5.

- **Hatches**
  - Dogs or other securing appliances
  - Covers
  - Gaskets
  - Coamings

- **Airports below weatherdecks**
  - Dogs or other securing appliances
  - Rims or seats
  - Glass
  - Dead covers
  - Hinges and lugs

- **Self-bailers and cockpit freeing ports**
  - Check valves
  - Required area

- **Compartment or inner bottom drains**
  - (drydocking drains)
  - Secure plugs

- **Draft marks and load lines**
  - Proper locations
  - Legibly inscribed
  - Proper spacing and size
  - Load line markings verified (vessels ≥ 79 feet)

**Rudders, Propellers, and Tailshafts:**

- **Rudder(s)**
  - Skeg
  - Stock
  - Fastenings
  - Bushings

Notes: __________________________________________________________

<table>
<thead>
<tr>
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<th>Exp. Date</th>
<th>Issue Date</th>
<th>Port Issued</th>
<th>ID #</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
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<th>Safety Management (SMC)</th>
<th>Document of Compliance (DOC)</th>
<th>FCC Station License</th>
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Notes: __________________________________________________________

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<th>Section 2: Certificates and Documents</th>
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<tbody>
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</tbody>
</table>
- Hull and/or structural members gauged for material thickness as needed - 46 CFR 115.610
- Fastenings
  - Rivets - NVIC 3-68
  - Welding - MSM Vol. IV Ch. 6.H
  - Nails, screws, bolts
  - Fastenings removed during this inspection
- Internal structural members - 46 CFR 115.610
  - Bulkheads - NVIC 7-95
  - Decks
  - Tank tops
  - Longitudinals
  - Floors
  - Frames
  - Intercostals
  - Stiffeners
  - Beams
  - Connections
  - Signs of electrolysis
- Vessel carefully examined for fractures and previous fracture repairs
- Forward peak
- Lazarette
- Solid fixed ballast - 46 CFR 116.1200

Notes:
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5  42
**Section 5: Drydock Inspection Items**

**Hull Structural Integrity:**
- Vessel plans available  
  (vessels with load lines)  
  46 CFR 115.612
- External structural members  
  46 CFR 115.610  
  NVIC 7-95
  - Plating
  - Planking
  - Caulking
  - Reinforcing straps
  - Stem
  - Transom
  - Bilge keels
  - Keel
  - Welds
  - Pitting
  - Signs of electrolysis

**Overall Condition:**

<table>
<thead>
<tr>
<th>Poor</th>
<th>Good</th>
</tr>
</thead>
</table>

**Areas of particular interest:**

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________________________________________________

**Continuous Synopsis Record:**
(SOLAS Vessels only)

Review Record and Enter Most Current Data

<table>
<thead>
<tr>
<th>Flag State:</th>
</tr>
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<tbody>
<tr>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Date Registered:</th>
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<tbody>
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<table>
<thead>
<tr>
<th>Ship ID #:</th>
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<tr>
<th>Ship Name:</th>
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<tr>
<th>Port of Registry:</th>
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</table>

<table>
<thead>
<tr>
<th>Registered Owners:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Company-as defined in SOLAS Chapter IX:</th>
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<tbody>
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</table>

<table>
<thead>
<tr>
<th>Issuer ISM DOC:</th>
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</table>

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<thead>
<tr>
<th>Issuer ISM SMC:</th>
</tr>
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<tbody>
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</table>

<table>
<thead>
<tr>
<th>Issuer ISSC:</th>
</tr>
</thead>
<tbody>
<tr>
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</tbody>
</table>
Certificates:

- COI posted
  - All pages visible
- Stability letter posted
- Small Passenger Vessel (SPV) decal posted
- Station bill posted
  - (vessels > 65 feet with more than 4 crew members)
- Passenger safety bill posted
- Waste management plan
  - (oceangoing vessels ≥ 40 feet)
- Red Cross first aid/CPR cards for 50% of crew
- Annual drug and alcohol program audit
- Liferaft servicing certificates
  - Annual service
- Fixed fire extinguisher servicing certificates
  - Annual service
- Required international safety convention certificates posted and valid

Manning Certification:

- Operator’s license
  - Name
  - Issue date
  - Tonnage
  - Route
- Mate’s license
  - Name
  - Issue date
  - Tonnage
  - Route
- Transportation Worker ID Credential (TWIC)
  - All MMC holders
  - All non-MMC holders with security duties or unrestricted access to restricted areas.

Security Drill:

- Observe security drill exercising the activation of the provisions in the VSP or ASP related to a security threat, breach, security communications, change of security level, or other security related incident or action as describe in the VSP or ASP.
- Drill selection and location shall be as directed by the Master and VSO.
- Critique Drill with VSO/CSO

Location: ________________________________
Notes: ________________________________
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Abandon Ship Drill:
- General alarms/signals: Familiarity with duties, Boat release
- Muster lists: Provide equipment, Boat operation
- Muster of crew/passengers: Familiarity with equipment, Egress procedures
- Crew response: Lower lifeboat, Davit-launched liferaft drill
- Language understood by crew: Brake operation, Communication w/bridge
- Lifejackets: Engine start, Lighting

(SOLAS 74/78 III/18.3; MSM Vol. II/D5.C.7.h)

Location: ____________________ Time to Water: ________

Notes: ____________________________________________________

Logs and Manuals:

- Current training logbook 46 CFR 122.420
  - Date
  - General description of training

- Lifesaving equipment maintenance record 46 CFR 122.720
  - Periodic checks as required
  - Onboard training in use of lifesaving equipment
    (all crew members)
  - Visual inspection of survival craft / rescue boat
    and launching appliances
  - Operation of lifeboat/rescue boat engines
  - Lifesaving appliances, including lifeboat
    equipment examined

- Bridge log
  - Steering gear drills
  - Emergency steering drills
  - Monthly fire and lifeboat drills
  - Casualties (navigation equipment and steering
    gear failures reported)

- SOLAS training manual

- Verify VGP compliance
  - Master aware of the VGP
    (Provide master with copy of VGP fact sheet)
  - Record of Routine visual inspections
  - Record of annual inspections
  - Record of dry-dock inspection
  - Documentation of Corrective Action
    Assessments
  - Verify compliance with BWM
  - NOI submitted

Notes: ____________________________________________________

________________________________________________________________________________________________________________________
Section 3: Inspection Items

Navigation Safety:

☐ Voyage plan
(vessels on oceans/coastwise routes, vessels with overnight passengers) 46 CFR 122.503

☐ Passenger count
(if voyage plan not required) 46 CFR 122.504

☐ Emergency instruction list posted 46 CFR 122.510

☐ Navigation publications 46 CFR 121.420
  • Current and corrected charts (large enough scale to navigate safely)
  • U.S. Coast Pilot
  • Coast Guard Light List
  • Tide tables
  • Tidal current tables
  • International Rules of the Road (SOLAS only)

☐ Navigation lights tested
(vessels > 65 feet must meet UL 1104) 46 CFR 120.420
  • Side shields 33 CFR Part 84
    - Fitted as needed 72 COLREGS
    - Painted black matte

☐ Radar 46 CFR 121.404

☐ Magnetic compass
(vessels on oceans/coastwise/limited coastwise routes) 46 CFR 121.402
  • Illuminated (unless limited to daytime operations)

Notes: ____________________________________________________
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_________________________________________________________
_________________________________________________________

Section 4: Drills

Fire Drill:

Initial notifications Familiarity with duties Space isolation
General alarms/signals Familiarity with equipment Smoke control
Crew response Fire pumps started Arrange care of passengers
Properly dressed/equipped Two jets of water Communications w/bridge
Language understood by crew Fire doors and dampers

(SOLAS 74/78 III/18.3; MSM Vol. II/D5.C.7.i; NVIC 6-91)

Location: ____________________________ Time on Scene: _______
Notes: ___________________________________________________________________________
_________________________________________________________________________________
_________________________________________________________________________________
_________________________________________________________________________________
_________________________________________________________________________________
_________________________________________________________________________________
Security measures for monitoring

- IAW VSP
- Lighting
- Test intrusion alarms
- Emergency search procedures

ASP Implemented in its entirety

Amendment and audit

- Users of ASP's are required under condition of ASP approval to conduct yearly audit and advise submitting organization if amendment is needed.
- CSO / VSO audit letter attached to VSP as required ISSC
- Audits conducted as required (annually or after vessel modifications)

Signaling devices

- Sound
  - Whistle/horn tested
  - Proper bell size
- Distress
  - Flares and day smokes (correct number and expiration)
  - Stowed in brightly colored, portable watertight container
  - Marked "Distress Signals"
  - Substitutions with proper expiration date

Internal communications tested

- A fixed means of two-way communication from
  - Operating station to machinery space (single screw vessels)
  - Operating station to auxiliary steering (single screw vessels)
  - Hand-held radios acceptable

Pilothouse control of propulsion engine systems

Voyage Data Recorder (VDR)

- Simplified (SVDR) if permitted

Long Range Identification & Tracking (LRIT)

- Conformance Test Report

Automatic Identification System (AIS)

Notes:

Signaling devices

- Sound
  - Whistle/horn tested
  - Proper bell size
- Distress
  - Flares and day smokes (correct number and expiration)
  - Stowed in brightly colored, portable watertight container
  - Marked "Distress Signals"
  - Substitutions with proper expiration date

If vessel travels: Then it must carry:

<table>
<thead>
<tr>
<th>Vessel Route</th>
<th>Flares and Day Smokes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oceans/coastwise/limited coastwise/Great Lakes route</td>
<td>6 red hand flares and 6 orange day smokes</td>
</tr>
<tr>
<td>Lakes, bays, sounds/rivers route</td>
<td>3 red hand flares and 3 orange day smokes</td>
</tr>
</tbody>
</table>

Notes:

Should an enforcement inspection reveal that an owner/operator has correctly implemented an approved ASP in its entirety but security vulnerabilities exist in the vessel operation, the COTP shall be advised. Under 33 CFR 104.415 (a) (ii) for vessels or 33 CFR 105.415 (a) (ii), the Coast Guard can determine that an amendment is necessary and advise the organization that submitted the ASP for approval accordingly. Following such notification, it will be necessary for the original submitting organization to provide their proposed amendment to the Commandant (CG-543) for review and approval. If the submitting organization does not wish to amend the ASP, the vessel owner must submit a VSP for the vessel to the MSC.
Radio equipment

46 CFR 121.502
47 CFR 80.905

<table>
<thead>
<tr>
<th>IF vessel travels:</th>
<th>THEN it must have:</th>
</tr>
</thead>
<tbody>
<tr>
<td>More than 1000 feet from shore but less than 20 NM</td>
<td>1 VHF</td>
</tr>
<tr>
<td>20 NM to 100 NM</td>
<td>1 VHF and 1 MF</td>
</tr>
<tr>
<td>100 NM to 200 NM</td>
<td>1 VHF, 1 MF, 1 SSB or INMARSAT radio, and 1 NAVTEX receiver</td>
</tr>
<tr>
<td>More than 200 NM</td>
<td>2 VHF, 1 MF, 1 SSB or INMARSAT radio, 1 NAVTEX receiver, 1 distress frequency receiver, and 1 automatic radiotelephone alarm signal generator</td>
</tr>
</tbody>
</table>

Emergency broadcast placard posted 46 CFR 121.506

Electronic position fixing device (vessels on oceans routes only) 46 CFR 121.410

EPIRB (406 MHz) tested 46 CFR 122.728
- Float-free arrangement 46 CFR 117.64
- Battery expiration date
- HRU/Hydro expiration date
- NOAA registered
- Tests logged
- Marked with vessel name 46 CFR 122.604(c)

Public address system tested 46 CFR 121.610

<table>
<thead>
<tr>
<th>IF vessel is:</th>
<th>THEN vessel must have:</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 65 feet</td>
<td>Fixed installation</td>
</tr>
<tr>
<td>≤ 65 feet</td>
<td>Battery bullhorn</td>
</tr>
<tr>
<td>Has more than one passenger deck or has overnight accommodations</td>
<td>A PA system that is operable from the operating station</td>
</tr>
</tbody>
</table>

9 GHz radar transponder (SART) (SOLAS Only) SOLAS 74/78 III/6.2 NVIC 9-93
- SOLAS only
- Passenger vessels require 2
- Stowed so to be rapidly placed in survival craft or stowed in survival craft

NAVTEX SOLAS 74/78 IV/7.1.4

Security systems and equipment maintenance
- Testing completed IAW manufacturer’s recommendations
- Working properly, effectively functions IAW VSP.
- Ship Security Alert System (SSAS)

Security measures for access control
- Access permitted for up to 30 days if:
  - Has applied for TWIC
  - Accompanied by TWIC holder in secure areas
  - Operator enters new hire personal info in HOMEPORT
  - Notified via HOMEPORT that new hire has passed initial name check.
  - Provision does not apply to CSO, VSO or individual hired to perform security duties

Security measures for newly hired employees (Pending receipt of TWIC)

Security measures for restricted areas 33 CFR 104.270 IAW ASP
- Secure areas protected
- Properly marked
- Control measures adequate
- Do not conflict with safety measures

Security measures for handling cargo 33 CFR 104.275 IAW ASP
- Identifying cargo tamper
- Identifying approved cargo
- Access point – inventory control
- Checking cargo for dangerous substances

Security measures for delivery of vessel stores and bunker 33 CFR 104.280 IAW ASP
- Security procedures followed
- Standing agreements valid
- Vessel Record Keeping Requirements
  - Training
  - Drills and exercises
  - Breaches of security
  - Change in MARSEC levels
  - Maintenance, calibration, and testing of security equipment.
  - Security threats
  - Annual audit of the VSP
  - Declaration of Security (DoS)
  - Retained for Two years

- MARSEC level coordination and implementation
  - Proper MARSEC level
  - MARSEC level at least at current port level

- Communications
  - Vessel security personnel
  - Facility
  - National and local authorities
  - Demonstrate communications operations consistent with the ASP

- Declaration of Security (DoS)
  - Required for cruise ships or manned CDC bulk vessels and any vessel or facilities with which it interfaces.
  - Valid (for MARSEC level and effective time period)
    Must have last 10 or continuous DoS reviewed at interval consistent with MARSEC level.
  - Signed

Notes: ____________________________________________________
_________________________________________________________
_________________________________________________________
_________________________________________________________
_________________________________________________________

- Bridge windows
  - Safety glass
  - Adequate strength
  - Allow 70% light/safety glass

- Structural Integrity:
  - External hull structure
    - Decks
    - Shell
    - Bulkheads
    - Strength members
    - Visible damage
    - Obvious repairs, modifications, or alterations
    - Rails/guards
  
  - Hull markings
    - Draft marks and loading marks
    - Name/hailing port
  
  - Internal compartment structures
    - Dry
    - Visible damage
    - Obvious repairs, modifications, or alterations
    - Means of escape
    - Ceilings
    - Inspection ports/ventilation
    - Rails/guards
  
  - Structural fire protection boundaries
    - Bulkheads and decks meet required rating
    - Penetrations equal to bulkhead rating
    - Main vertical zones
    - Draft stops

Notes: ____________________________________________________
_________________________________________________________
_________________________________________________________
_________________________________________________________
_________________________________________________________
_________________________________________________________

35 12
- Noncombustible trim
  - Ceilings
  - Interior finish
  - Decorations
  - Reasonable paint coatings

- Fire-resistant furnishings
  - Furniture meets UL Std. 1056
  - Draperies and curtains meet NFPA Std. 701
  - Rugs and carpet meet ASTM E-84 or E-648

- Fire loads
  - Low-risk areas < 3 pounds/square feet
  - High-risk areas < 7.5 pounds/square feet

- Windows in fire control boundaries
  - Laminated glass
  - Steel frames

- Fire doors
  - A-0 bulkhead = A-0 door
  - Self-closing (stairtower and MVZ)
  - Operable from either side

- Stairtowers
  - Rails
  - Obstructions

- Balconies
  - Automatic sprinkler system
  - Each level with two means of escape

- Atriums
  - Smoke detection system (vessels with overnight passengers)
  - Smoke extraction system
  - Automatic sprinkler system
  - Each level with two means of escape

Notes:

- Name of approved ASP

  - ________________________________

- Compliance Documentation

  - Copy of ASP aboard vessel
  - Vessel Specific Security Assessment (VSA) completed
  - Letter to MSC stating use of approved ASP and that it has been fully implemented

- Master

  - Aware of responsibility and authority with regards to MTSA

- Company Security Officer (CSO)

  - Training / experience
  - Valid TWIC
  - See list of example questions

- Vessel Security Officer (VSO)

  - Training / experience
  - Valid TWIC
  - See list of example questions

- Company or vessel personnel with security duties

  - Training / experience
  - Valid TWIC
  - See list of example questions

- Security Training for all other vessel personnel

  - ________________________________

Notes:

- Master

  - ________________________________

- Company Security Officer (CSO)

  - ________________________________

- Vessel Security Officer (VSO)

  - ________________________________

- Company or vessel personnel with security duties

  - ________________________________
Alternative Security Program (ASP):

Vessels operating under the auspices of an approved ASP are required to address the relevant areas cited in 33 CFR parts 104. However, the ASP provision of the rule has provided a mechanism by which segments of the maritime industry, through application by the industry associations or other representative groups, are able to tailor their program to the unique functions inherent of their specific operations. The result is a set of relevant, performance-based security measures for the industry groups choosing to utilize an approved ASP. For this reason, the inspector of a vessel using an approved ASP may find that certain language or security measures contained in some parts of the rule will differ from the language or security measures listed in the ASP. Additionally, an industry or group may determine that a section of the regulations is not applicable to their operations. For example, a passenger vessel group may state in their ASP that they do not need to address 33 CFR 104.275 or 33 CFR 105.265, respectively – security measures for handling cargo – because they do not handle cargo of any type.

In those cases where both the vessels and the facilities serving those vessels are owned and/or operated by the same entity, an alternative plan may recognize that the same party is responsible for security in both areas and approve an approach that addresses vulnerabilities and mitigation strategies for the vessels and the facility under one ASP. Therefore, the inspector will not be using separate plans for the vessels and the facility to determine compliance and, likewise, will not see some citations addressed in the plan if they are redundant between 33 CFR 104 and 33 CFR 105.

Watertight integrity
- Subdivision watertight bulkheads
- Watertight doors/hatches
  - Operable from both sides
  - Captive devices attached to all unhinged covers
  - Coamings (6 inches-exposed routes; 3 inches-protected routes)
  - Knife edges
  - Gaskets
  - Hardware
- Closure means for openings in hull (local and remote)

Scuppers/freeing ports

Dead light covers on port lights below main deck

Deck rail
- Height requirements (39.5 inches minimum)
- Point load requirements (200 lbs. minimum)

General Health and Safety:

General alarm tested

Upper decks marked for maximum number of passengers per stability letter

Crew accommodations
(vessels > 65 feet with > 49 overnight accommodations must comply with applicable Subchapter H requirements)
- Adequate berthing
- Sanitary conditions

Passenger accommodations
- Adequate berthing
- Adequate seating
- Sanitary conditions

Notes:

________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
Emergency evacuation plan
• Describe actions for fires and flooding
• Evacuating procedures
• Refuge area (3 square feet/person)
• Show two means of escape from each space
• Abandon ship plan

Means of escape
• Operable from both sides
• Marked "Emergency Exit, Keep Clear"

Embarkation stations
• Handholds
• Well-illuminated
• Handrails and lifelines with openings to allow passengers to board survival craft

Cooking and heating systems
• LPG/CNG stowage
• Shutoff valves installed on gas systems
• Sea rails installed on galley stoves

Sanitary inspection
• Galley
• Serving pantries
• Lockers

Ventilation
• Remote shutdown

Passenger Safety Orientation
• Public announcement
• Card or pamphlet

Crew and passenger list

Notes:

46 CFR 116.520
46 CFR 116.500
46 CFR 116.606
46 CFR 116.510
46 CFR 121.240
46 CFR 121.220
46 CFR 115.818
46 CFR 116.600
46 CFR 122.506
46 CFR 122.502
Security measures for monitoring
- IAW VSP
- Lighting
- Test intrusion alarms
- Emergency search procedures

Security Incident Procedures
- Witness during drill

Additional requirements for passenger vessels or ferries
- 33 CFR 104.290

Additional requirements for cruise ships
- 33 CFR 104.295

Additional requirements – vessels on international voyages
- ISSC issued
- CSR updated

Vessel Security Assessment Report
- 33 CFR 104.305(d)
- Reviewed and attached to VSP

Vessel Security Plan
- 33 CFR 104.400
- Reviewed

Amendment and audit
- 33 CFR 104.415
- CSO / VSO audit letter attached to VSP as required ISSC
- Audits conducted as required (annually or after vessel modifications)

Ship Security Alert System (vessels subject to SOLAS only)
- ISPS Part A, 9.4.18
  - On the bridge and one other location
  - Designed to prevent inadvertent activation
  - Covert (unmarked, silent, and need to know)
  - Tested IAW VSP

Ground Tackle:

- Proper ground tackle
  - 46 CFR 121.300

<table>
<thead>
<tr>
<th>Number of Anchors</th>
<th>Weight (lbs.)</th>
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<table>
<thead>
<tr>
<th>Number of Cables</th>
<th>Length</th>
<th>Size</th>
</tr>
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<tbody>
<tr>
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- Mooring lines
  - 46 CFR 121.300

- Sails and rigging
  - 46 CFR 116.330

Lifesaving Equipment:

- Stowage of survival craft
  - 46 CFR 117.130
  - 46 CFR 117.137

- Embarkation aids
  - 46 CFR 117.150

- Number and type of survival craft
  - 46 CFR 117.200

<table>
<thead>
<tr>
<th>Item</th>
<th>Number</th>
<th>Capacity (Persons)</th>
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<tr>
<th>Item</th>
<th>Number</th>
<th>Capacity (Persons)</th>
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Lifefloats and buoyant apparatus
- Coast Guard approval
- Lifeline
- Pendants
- Two paddles per lifefloat
  - 4 feet in length
  - Marked with vessel name
- Waterlight with proper battery
  - Properly mounted, secure splices
  - Watertight globe
  - Float-free
- Marked with vessel name
- Stowage
- Properly sized and approved weak link
- Sea painter
- Retro-reflective tape

Notes:

-...

Inflatable buoyant apparatus
- Annual service

Inflatable liferafts
- Capacity of 6 or more persons
- Stowage
  - Float-free
- Annual service

Inflatable survival craft placards posted

Rescue boats/rescue platforms (vessels > 65 feet)
- Marked with vessel name
- Capacity
- Retro-reflective tape
- Small, lightweight with floatation
- Readily launched, easily maneuvered
- Capable of recovering person without capsizing

Security systems and equipment maintenance
- Testing completed IAW manufacturer’s recommendations
- Working properly, effectively functions IAW VSP.
- Ship Security Alert System (SSAS)

Security measures for access control
- Access points examined – signs posted in conspicuous locations.
- Control areas for authorized dangerous substances / devices
- Means of identifying unauthorized personnel
- TWIC for unescorted access to secure areas

Security measures for newly hired employees (Pending receipt of TWIC)
- Access permitted for up to 30 days if:
  - Has applied for TWIC
  - Accompanied by TWIC holder in secure areas
  - Operator enters new hire personal info in HOMEPORT
  - Notified via HOMEPORT that new hire has passed initial name check.
- Provision does not apply to CSO, VSO or individual hired to perform security duties

Security measures for restricted areas
- Secure areas protected
- Properly marked
- Control measures adequate
- Do not conflict with safety measures

Security measures for handling cargo
- Identifying cargo tamper
- Identifying approved cargo
- Access point – inventory control
- Checking cargo for dangerous substances

Security measures for delivery of vessel stores and bunker
- Security procedures followed
- Standing agreements valid
Company or vessel personnel with security duties

- Training / experience
- Valid TWIC
- See list of example questions

Security Training for all other vessel personnel

- Training / experience
- Valid TWIC
- See list of example questions

Vessel Record Keeping Requirements

- Training
- Drills and exercises
- Breaches of security
- Change in MARSEC levels
- Maintenance, calibration, and testing of security equipment.
- Security threats
- Annual audit of the VSP
- Declaration of Security (DoS)
- Retained for Two years

MARSEC level coordination and implementation

- Proper MARSEC level
- MARSEC level at least at current port level

Communications

- Vessel security personnel
- Facility
- National and local authorities
- Demonstrate communications operations consistent with the VSP

Declaration of Security (DoS)

- Required for cruise ships or manned CDC bulk vessels and any vessel or facilities with which it interfaces.
- Valid (for MARSEC level and effective time period)
  Must have last 10 or continuous DoS reviewed at interval consistent with MARSEC level.
- Signed

Survival craft maintenance (vessels > 65 feet)

- Manufacturer’s instructions on board
- Inspections/examinations logged
- Weekly/monthly/quarterly/annually inspected/examined

Lifejackets

- Retro-reflective tape
- Lights (vessels on oceans/coastwise/Great Lakes routes)
  - Watertight
  - Batteries dated or changed annually
- Marked with vessel name
- Stowage
  - Marked
  - Child size PFDs separate from adult PFDs
  - Unlocked
  - If over 7 feet high, check quick release mechanism
  - PFDs carried in addition to lifejackets
- Number of lifejackets rejected by inspector

Lifejacket donning placards posted

Ring lifebuoys

- Orange if vessel on oceans/coastwise
- Lifeline (60 feet long)
- Waterlight with 3-foot lanyard and corrosion-resistant clip
- Retro-reflective tape
- Marked with vessel name
- Stowage (not permanently secured)
- Vessels < 26 feet may carry 20-inch ring

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<thead>
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Total Number of Ring Lifebuoys

Notes: ____________________________________________________
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Total Number of Ring Lifebuoys

Notes: ____________________________________________________
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First aid kit visible and readily available to the crew and properly marked "First Aid Kit."  

46 CFR 121.710  
46 CFR 160.041

**Fire Protection:**

- Fire control plan  
  - Permanently posted  
  - Copy permanently stored in weathertight container outside deckhouse  
  46 CFR 116.530

- Fire and smoke detection systems  
  (required on existing wood/FRP vessels)  
  - Sensors tested  
  - Alarms tested  
  46 CFR 118.400(c)  
  46 CFR 118.400(e)

- Portable and semiportable fire extinguishers  
  - Annual service in accordance with NFPA 10  
    - Date cylinders hydro-tested _________  
  - Proper location  
  46 CFR 118.500  
  46 CFR 118.520

- Fixed firefighting for galley vent hood system  
  46 CFR 118.400(d)  
  46 CFR 118.425

**MTSA/ISPS Compliance**

**Vessel Security Plans (VSP):**  
(If using ASP, skip to next section)

- Compliance documentation  
  33 CFR 104.120  
  ISPS, Part A, 9.1

- Waiver  
  - Approved Vessel Security Plan  
    33 CFR 104.130

- Equivalents  
  - Approved by CG-543  
    33 CFR 104.135

- Maritime Security (MARSEC) directive  
  - Proper safeguards  
  - Incorporated into VSP  
  33 CFR 104.145

- Master  
  - Aware of responsibility and authority with regards to MTSA  
  33 CFR 104.205

- Company Security Officer (CSO)  
  - Training / experience  
  - Valid TWIC  
  - See list of example questions  
  33 CFR 104.210  
  ISPS, Part A, 11

- Vessel Security Officer (VSO)  
  - Training / experience  
  - Valid TWIC  
  - See list of example questions  
  33 CFR 104.215  
  ISPS, Part A, 12

Notes: ____________________________________________________  
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Emergency lighting tested
- Type
- Automatically activated
- Not portable
- Connected to battery charger
- Operating capacity—2 hours
- Emergency lighting system that complies w/Sub J (vessels > 65 feet that either carry > 600 passengers or have overnight accommodations for > 49 passengers)

Pollution Prevention:
- Pollution placard posted
- MARPOL V placard posted
- Bilges free of oil and trash/debris

MARPOL VI Compliance
- NOx Requirements
  - EPA engine emission stds - for vessels on international voyages;
  - EIAPP Cert. issued by the EPA for vessels on international voyages
  - IAPPCert.
    - Fuel and SOx Requirements
    - Incinerator 46 CFR 63.25-9
    - Ozone Depleting Substance

Marine sanitation device
- Type
- Sanitary
- Discharge valve secured and locked
- Tank vent 30 x 30 mesh screen
- ¾-full level indicator

Verify VGP compliance.
- Is the state of deck and work areas housekeeping adequate?
- Deck is free of clutter, garbage, fuel/oil spills?
- Are spill rails and drip pans in place and utilized?

Fixed fire extinguishing systems
- Annual service
  - Date cylinders weighed
  - Date cylinders hydro-tested
- Sprinklers tested in vehicle spaces
- Alarms
  - Engine/power ventilation shutdowns tested (engine shutdown not required on existing vessels with CO₂, BUT is required with Halon)
  - Manual ventilation closures on protected spaces
  - Instructions at controls and in space
- Piping
- Valves
- Controls

Spaces Protected | Agent | Capacity
--- | --- | ---

Fire main system and stations
- Fire main system tested
  - Piping
  - Valves
  - Fittings
- Number hose stations required
- Fire hose
  - Minimum 5/8-inch hose and nozzle 25-50 feet in length
  - 1.5-inch hose and nozzle (required for vessels > 65 feet and vessels carrying > 49 passengers)
  - Nozzles and spanners

Diameter of Each Hose
- Length of Each Hose

Notes: _______________________________________________________
_________________________________________________________
_________________________________________________________
Fire axe (vessels > 65 feet) 46 CFR 118.600
- Located in or near primary operating station

Fire pumps tested 46 CFR 118.300
- Piping
- Manifold and valves
- Witness water stream

Machinery:
Main steering system tested 46 CFR 115.814
- Type 46 CFR 119.600
- Rudder packing 46 CFR 58.25
- Hoses
- Tubing
- Piping
- Tiller arms and connectors double-nutted / cotter pinned

Auxiliary steering system (if required) operable 46 CFR 115.814
- Type 46 CFR 119.600
- Rudder packing 46 CFR 58.25

Main propulsion engine tested 46 CFR 115.804
- Capable of being secure from pilothouse 46 CFR 121.620
  - Independent of speed control
- Foundations
- Controls
- Gauges 46 CFR 121.620
  - Engine RPM/oil pressure/water temperature operational and visible at each operating station
- Safety devices
- Lubrication system 46 CFR 115.804
  - Oil/water leaks
- Engine room
  - Clean and free of fire hazards

Switchboards and distribution panels 46 CFR 120.300
- Circuits and electrical equipment marked and identified
  - Warning sign for multiple power sources
- Protective covering
- Drip shield
- Overcurrent protection

Radios fused at main panel 46 CFR 120.392

Cable, wiring, receptacles, outlets, accessories 46 CFR 120.340
- Installation
  - Wire type
  - Wire size
  - Splices
  - Connectors
  - Metal wire supports every 24 inches (not required on existing vessels)
- Grounding
- Overcurrent protection

Miscellaneous motors and controllers
- Proper location
- Grounding

Lighting fixtures 46 CFR 120.410
- Suitable guards
- Properly secured

Portable lighting 46 CFR 120.430
- At least two lights
  - One at operating station
  - One at entrance to propulsion / machinery space

Notes: ____________________________________________________
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Electrical Equipment:
- Primary power and light system tested
  - Voltage
  - Electrical source
    - Generator
    - Battery
    - Grounding
- Main engine generators
- Independent generators
  - Multiple generators
    - Independent prime movers
    - Circuit breakers interlocked
    - Parallel operation must meet Subchapter J
- Batteries (and alternator, if required)
  - Overload protection
  - Ventilation
  - Protective covering
  - Battery charger with ammeter connected to charging circuit
  - Cable connectors permanent
  - Corrosion-resistant tray or mounting

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<tr>
<th>Service</th>
<th>Location</th>
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Notes:_________________________________________________________________
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Cooling system
- Type of engine cooling system
- Temperature gauges (operating station)
- Installation

Exhaust system
- Type of exhaust cooling system
- Loss of cooling alarm on vessel with wet exhaust (vessels with a separate exhaust cooling pump must have a loss of cooling alarm)
  - Visible / audible
  - Located at operating station
- Leaks
  - Seams
  - Elbows
  - Joints
  - Flexible hoses

Fuel system
- Tank space properly vented
  - > 500 cubic feet = gooseneck > 2.5 inches
  - < 500 cubic feet = gooseneck > 1.5 inches
- Fuel tank vents
  - Vent openings not located adjacent to possible sources of vapor ignition
    - 30 x 30 mesh screen
- Independent fuel tanks grounded
  - Electrically bonded to a common ground
- Portable fuel tanks
  - Stowed on deck in racks
    - "No Smoking" placards posted
- Shutoff valves tested (tank and engines)
  - Located at the ends of each fuel line
    - If tank end not located outside of tank space, handle must be within 12-inch reach and shielded
- Fuel strainers
- Solid bottom type petcocks with tapered plugs and union bonnets
- Fuel tank fill hose
  - Top flange grounded to tank
  - Flexible hoses
- Termination of filling, sounding or vent pipes outside vessel

Notes:_________________________________________________________________
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Service Location
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Ventilation of machinery installations

- Engine room intake and exhaust ventilation
  - Closure devices for spaces with fixed gas extinguishing system
  - Ducts secured and supported

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<thead>
<tr>
<th>Ventilators</th>
<th>Number and Type</th>
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<tbody>
<tr>
<td></td>
<td>Natural</td>
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<tr>
<td>Machinery Space</td>
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<tr>
<td>Fuel Tank Space</td>
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Machinery guards

- Installed over exposed gears
- Belts
- Rotating machinery

Vital systems piping

Non-metallic piping materials

Watertight bulkheads

- Piping
  - Metallic through fittings
- Valves
  - Valve with reach rod
  - Free of sluice valves
  - Operable

Shaft log free of excess leakage

- Reasonable dripping
- Testing ahead and astern
- Remaining adjustment on stuffing box bolts

Bilge pumps tested

- Source of power for each pump
- Overboard discharge
- Visual indicator for auto bilge pump operation

Portable bilge pump tested
(vessels < 65 feet)

- Suction capable of reaching the bottom of all compartments

Bilge piping

- Check valves in each compartment or stop / check valves at manifold
- Valve fitted on collision bulkhead
  - Screw down valve type
  - Operable from weatherdeck if forward; readily accessible if aft

Bilge high level alarm

- Visible/audible
- Located at operating stations

Deck machinery

- Windlass
- Winches
- Capstans
- Controls
- Guards

Pressure vessels required to be periodically tested

- Inspected every 3 years

<table>
<thead>
<tr>
<th>Service</th>
<th>Working Pressure</th>
<th>Relief Valve Setting</th>
<th>Date Tested or Examined</th>
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