<table>
<thead>
<tr>
<th>Name of Vessel</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Official Number</td>
<td>Class</td>
</tr>
<tr>
<td>Date Completed</td>
<td>Location</td>
</tr>
<tr>
<td>Vessel Built in Compliance with SOLAS:</td>
<td>60 74 74/78 N/A</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></td>
<td>Lakes/Bays/Sounds</td>
</tr>
<tr>
<td></td>
<td>Rivers</td>
</tr>
<tr>
<td>Inspection Type</td>
<td></td>
</tr>
<tr>
<td>Inspection for Certification (COI)</td>
<td>Annual Inspection</td>
</tr>
<tr>
<td></td>
<td>Periodic Inspection</td>
</tr>
<tr>
<td>Inspectors</td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td>3.</td>
</tr>
<tr>
<td>2.</td>
<td>4.</td>
</tr>
</tbody>
</table>
**Total Time Spent Per Activity:**

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

<table>
<thead>
<tr>
<th>TOTAL ADMIN HOURS</th>
<th>TOTAL TRAVEL HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>TOTAL ADMIN HOURS</th>
<th>TOTAL TRAVEL HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

<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 Tankship 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 tankships. 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 tankships 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.

Guide to Examinations:

- All vessels
- Vessels carrying dangerous cargoes in bulk

Pre-inspection Items:

- Review MISLE records.
  - COI
  - Vessel Critical Profile
- Obtain copies of forms to be issued.

Post-inspection Items:

- Issue letters/certificates to vessel.
- Complete MISLE Activity
- Initiate Report of Violation (ROV) if necessary.
Table of Contents:

Section 1: Administrative Items
IMO Applicability Dates ................................................................. 1
Involved Parties & General Information .......................................... 2
Vessel Information ........................................................................... 3
Vessel Description ........................................................................... 3

Section 2: Certificates and Documents
Certificates .................................................................................... 8
Logs and Manuals ........................................................................... 9
Pollution Prevention Records ......................................................... 10
Chemical Cargo Records ............................................................... 11

Section 3: Inspection Items for All Vessels
Navigation Equipment ..................................................................... 12
General Health and Safety ............................................................. 15
Structural Integrity ......................................................................... 17
Ground Tackle ............................................................................... 19
Cargo Operations .......................................................................... 19
Inert Gas Systems .......................................................................... 22
Vapor Control Systems ................................................................. 22
Lifesaving Equipment .................................................................... 23
Fire Protection ............................................................................... 29
Pollution Prevention ...................................................................... 32
Marine Sanitation Devices ............................................................. 34
MTSA/ISPS Compliance ................................................................. 35

Section 4: Additional Inspection Items: Vessels Carrying Dangerous
Chemicals in Bulk
Emergency Equipment ..................................................................... 45
Cargo Operations .......................................................................... 46
Cargo Tanks ................................................................................... 46
Cargo Piping .................................................................................... 47
Quick-closing Valves ..................................................................... 48
Venting ............................................................................................. 48
Gauging ........................................................................................... 49
Pump rooms .................................................................................... 50
Electrical Systems .......................................................................... 50
Gas Detection ................................................................................... 51

Section 5: Drills
Fire Drill .......................................................................................... 52
Abandon Ship Drill ......................................................................... 53
Security Drill .................................................................................... 54

Section 6: Appendices
Vessel Layout ................................................................................ 55
Cargoes Requiring a Response Plan ............................................... 57
Prohibited Chemical Cargoes ......................................................... 58
Recommended US Vessel Deficiency Procedures ......................... 59
Deficiency Summary Worksheet ..................................................... 60
Conversions..................................................................................... 61

Conversions:

Distance and Energy

<table>
<thead>
<tr>
<th>Kilowatts (kW)</th>
<th>X</th>
<th>1.341</th>
<th>=</th>
<th>Horsepower (hp)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feet (ft)</td>
<td>X</td>
<td>3.281</td>
<td>=</td>
<td>Meters (m)</td>
</tr>
<tr>
<td>Long Ton (LT)</td>
<td>X</td>
<td>.98421</td>
<td>=</td>
<td>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/t</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

| 1 Long Ton      | = | 2240 lbs | 1 Metric Ton = | 2204 lbs |
| 1 Short Ton     | = | 2000 lbs | 1 Cubic Foot   = | 7.48 gal |
| 1 Barrel (oil)  | = | 5.61 ft = 42 gal = 6.29 m³ | 1 psi = .06895 Bar = 2.3106 ft of water |

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

| 0   = | -17.8 | 80   = | 26.7 | 200 = 93.3 |
| 32  = | 0     | 90   = | 32.2 | 250 = 121.1 |
| 40  = | 4.4   | 100  = | 37.8 | 300 = 148.9 |
| 50  = | 10.0  | 110  = | 43.3 | 400 = 204.4 |
| 60  = | 15.6  | 120  = | 48.9 | 500 = 260  |
| 70  = | 21.1  | 150  = | 65.6 | 1000 = 537.8 |

Pressure: Bars = Pounds per square inch

| 1 Bar    = | 14.5 psi | 5 Bars    = | 72.5 psi | 9 Bars    = | 130.5 psi |
| 2 bars   = | 29.0 psi | 6 Bars    = | 87.0 psi | 10 Bars   = | 145.0 psi |
| 3 Bars   = | 43.5 psi | 7 Bars    = | 101.5 psi|
| 4 Bars   = | 58.0 psi | 8 Bars    = | 116.0 psi|
### Deficiency Summary Worksheet:

<table>
<thead>
<tr>
<th>Name of Vessel</th>
<th>VIN</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Deficiency</th>
<th>Req't. Issued / Date Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Section 1: Administrative Items

#### IMO Applicability Dates:

<table>
<thead>
<tr>
<th>Reference</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOLA8 1960</td>
<td>26 MAY 65</td>
</tr>
<tr>
<td>SOLAS 1974</td>
<td>25 MAY 80</td>
</tr>
<tr>
<td>SOLAS 1974</td>
<td>01 MAY 81</td>
</tr>
<tr>
<td>1981 Amendments</td>
<td>01 SEP 84</td>
</tr>
<tr>
<td>1983 Amendments</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 II</td>
<td>06 APR 87</td>
</tr>
<tr>
<td>MARPOL 73/78 Annex III</td>
<td>01 JUL 92</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>IBC Code</td>
<td>After 01 JUL 86</td>
</tr>
<tr>
<td>BCH Code</td>
<td>Prior to 01 JUL 86</td>
</tr>
<tr>
<td>IGC Code</td>
<td>After 01 JUL 86</td>
</tr>
<tr>
<td>IGC Code (for existing vessels)</td>
<td>Prior to 01 JUL 86</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>
Involved Parties & General Information:

Vessel's Representatives

Phone Numbers

Owner—Listed on DOC or COFR

Operator

☑️ No Change

☑️ No Change

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 Deficiency Summary Worksheet (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>
</tbody>
</table>

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

6 Enter CG-835 data in MISLE
**Prohibited Chemical Cargoes:**
The following cargoes have been determined to be too hazardous to be carried in U.S. waters:

1. Acrolein
2. Chlorine (on self-propelled vessels)
3. Ethylenimine
4. Hydrofluoric Acid
5. Hydrogen
6. Hydrogen Chloride
7. Hydrogen Fluoride
8. Methylcyclopentadienyl Manganese Tricarbonyl
9. Nitric Acid (in concentrations > 70%)
10. Nitrogen Tetroxide
11. Oxygen
12. Phosphorus Trichloride
13. (Beta) Propiolactone

**Vessel Information:**

<table>
<thead>
<tr>
<th>Classification Society</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>ISM Issuer: Same as above?</th>
</tr>
</thead>
<tbody>
<tr>
<td>❑ Yes ❑ No If not the same, which Recognized Organization?</td>
</tr>
</tbody>
</table>

**NOTE:** The period of validity for ISM documents should correspond to the following list. If they do NOT, ISM documents should be further investigated.

- 5 years = Full term (SMS and DOC)
- 12 months = Interim (DOC)
- 6 months = Interim (SMC)
- 5 months = Short term (SMC)

<table>
<thead>
<tr>
<th>Gross Tons</th>
<th>❑ No Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Net Tons</td>
<td>❑ No Change</td>
</tr>
<tr>
<td>Built Date (use delivery date)</td>
<td>❑ No Change</td>
</tr>
<tr>
<td>Overall Length (in feet)</td>
<td>❑ No Change</td>
</tr>
</tbody>
</table>

**Does vessel meet double-hull requirements?**

- ❑ Yes ❑ No If not, vessel must meet requirements by _____ (date) in accordance with 33 CFR Part 157 Appendix G.

<table>
<thead>
<tr>
<th>Last Three Cargoes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. __________________</td>
</tr>
<tr>
<td>2. __________________</td>
</tr>
<tr>
<td>3. __________________</td>
</tr>
</tbody>
</table>

| Is pumproom gas-free? | ❑ Yes ❑ No ❑ N/A |

**Vessel Description:**

- ❑ Crude Carrier ❑ Combination
- ❑ Product Carrier ❑ Oil / Bulk / Ore
- ❑ Chemical Carrier ❑ Other
## Section 2: Certificates and Documents

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

<table>
<thead>
<tr>
<th>Issuing Agency</th>
<th>USCG</th>
<th>USCG</th>
<th>USCG</th>
</tr>
</thead>
</table>

### Name of Certificate
- Certificate of Documentation
- Certificate of Financial Responsibility (COFR)
- Safety Construction (SLC)
- Safety Equipment (SLE)
- Safety Radio (SLT)

### Endorse
- No Change

### Exp. Date
- No Change

### Issue Date
- No Change

### Port Issued
- No Change

### ID #
- No Change

### Name of Certificate
- USCG
- USCG

### Cargo Types

<table>
<thead>
<tr>
<th>Type of Cargo</th>
<th>Name of Cargo</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asphalt</td>
<td>Blending stocks, Roofers stock, Straight run residue</td>
</tr>
<tr>
<td>Animal Oils</td>
<td>Tallow, Lard, Sperm oil, Fish oil, Fish liver</td>
</tr>
<tr>
<td>Distillates</td>
<td>Flashed feed stocks, Straight run</td>
</tr>
<tr>
<td>Edible Oils</td>
<td>Corn, Soybean, Cotton seed</td>
</tr>
<tr>
<td>Gasolines</td>
<td>Automotive, Aviation, Straight run, Gas, oil cracked</td>
</tr>
<tr>
<td>Naptha</td>
<td>Aromatic, Paraffinic, Petroleum, Solvent</td>
</tr>
<tr>
<td>Oils</td>
<td>Clarified oil, Aromatic oil (excluding vegetable oil), Mineral oil, Motor oil, Penetrating oil, Spindle oil, Turbine oil, Octene</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type of Cargo</th>
<th>Name of Cargo</th>
</tr>
</thead>
<tbody>
<tr>
<td>Animal Oils</td>
<td>Tallow, Lard, Sperm oil, Fish oil, Fish liver</td>
</tr>
<tr>
<td>Distillates</td>
<td>Flashed feed stocks, Straight run</td>
</tr>
<tr>
<td>Edible Oils</td>
<td>Corn, Soybean, Cotton seed</td>
</tr>
<tr>
<td>Gasolines</td>
<td>Automotive, Aviation, Straight run, Gas, oil cracked</td>
</tr>
<tr>
<td>Naptha</td>
<td>Aromatic, Paraffinic, Petroleum, Solvent</td>
</tr>
<tr>
<td>Oils</td>
<td>Clarified oil, Aromatic oil (excluding vegetable oil), Mineral oil, Motor oil, Penetrating oil, Spindle oil, Turbine oil, Octene</td>
</tr>
</tbody>
</table>

### Cargo Types

<table>
<thead>
<tr>
<th>Cargo Type</th>
<th>Name of Cargo</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asphalt</td>
<td>Blending stocks, Roofers stock, Straight run residue</td>
</tr>
<tr>
<td>Animal</td>
<td>Tallow, Lard, Sperm oil, Fish oil, Fish liver</td>
</tr>
<tr>
<td>Distillate</td>
<td>Flashed feed stocks, Straight run</td>
</tr>
<tr>
<td>Edible</td>
<td>Corn, Soybean, Cotton seed</td>
</tr>
<tr>
<td>Gasoline</td>
<td>Automotive, Aviation, Straight run, Gas, oil cracked</td>
</tr>
<tr>
<td>Naptha</td>
<td>Aromatic, Paraffinic, Petroleum, Solvent</td>
</tr>
<tr>
<td>Oils</td>
<td>Clarified oil, Aromatic oil (excluding vegetable oil), Mineral oil, Motor oil, Penetrating oil, Spindle oil, Turbine oil, Octene</td>
</tr>
<tr>
<td>Name of Certificate</td>
<td>Issuing Agency</td>
</tr>
<tr>
<td>---------------------------------------------------------------</td>
<td>----------------</td>
</tr>
<tr>
<td>International Load Line</td>
<td></td>
</tr>
<tr>
<td>☐ No Change</td>
<td></td>
</tr>
<tr>
<td>International Oil Pollution Prevention w/Form B (IOPP)</td>
<td></td>
</tr>
<tr>
<td>☐ No Change</td>
<td></td>
</tr>
<tr>
<td>Certificate of Fitness (COF)</td>
<td>USCG</td>
</tr>
<tr>
<td>☐ No Change</td>
<td></td>
</tr>
<tr>
<td>International Tonnage (ITC)</td>
<td></td>
</tr>
<tr>
<td>☐ No Change</td>
<td></td>
</tr>
<tr>
<td>Safety Management (SMC)</td>
<td></td>
</tr>
<tr>
<td>☐ No Change</td>
<td></td>
</tr>
<tr>
<td>Document of Compliance (DOC)</td>
<td></td>
</tr>
<tr>
<td>☐ No Change</td>
<td></td>
</tr>
</tbody>
</table>
### Section 6: Appendices

#### Vessel Layout:

- Double hull/bottom/sides
- Ballast tanks (SBT/CBT)
- Chemical tank type: I II III
- Tank arrangement
- Deckhouse location
- External/internal framing
- Layout of pumps – type

<table>
<thead>
<tr>
<th>Exp. Date</th>
<th>Issue Date</th>
<th>Port Issued</th>
<th>ID #</th>
<th>Issuing Agency</th>
<th>Name of Certificate</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>International Ship Security Certificate (ISSC) No Change</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>International Air Pollution Prevention Certificate (IAPP) No Change</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Engine International Air Pollution Prevention Certificate (EIAPP) No Change</td>
</tr>
</tbody>
</table>
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: ________________________________

Continuous Synopsis Record:
(SOLAS Vessels only)
Review Record and Enter Most Current Data

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

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

<table>
<thead>
<tr>
<th>Ship ID #:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ship Name:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Port of Registry:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

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

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

- COI posted
  - All pages visible
- ISM Code
  - Safety Management System
  - Shipboard Operations Plan
- Stability letter posted
- Waste management plan
  (oceangoing vessels ≥ 40 feet)
- Annual drug and alcohol program audit
- Transportation Worker ID Credential (TWIC)
  - All MMC holders
  - All non-MMC holders with security duties or unrestricted access to restricted areas.
- Officers’ licenses current
- GMDSS endorsement
  - FCC Station License
  - Safety Radio Certificate
- GMDSS maintenance personnel
  - 1st Class Radiotelegraph Operator’s Certificate
  - 2nd Class Radiotelegraph Operator’s Certificate
  - 3rd Class Radiotelegraph Operator’s Certificate
- Required international safety convention certificates posted and valid
- Liferaft servicing certificates
  - Annual service
- Cargo Gear Certificate
  - 46 CFR 31.05-5
  - 46 CFR 153.301
  - SOLAS 74/78 IX/3
  - 46 CFR 35.08-1
  - 33 CFR 151.57
  - 46 CFR Part 16
  - 46 CFR 35.05-1
  - 47 CFR Part 80
  - 47 CFR 80.1074
  - 46 CFR 31.40-35
  - 46 CFR 160.151-57(p)
  - SOLAS 74/78 III/19.8
  - 46 CFR 31.37-75

Notes:

Abandon Ship Drill:

- General alarms / signals
- Familiarity with duties
- Boat release
- Muster lists
- Provide equipment
- Boat operation
- Muster of crew
- 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: ____________________________________________

______________________________________________________________

______________________________________________________________

______________________________________________________________

______________________________________________________________

______________________________________________________________

______________________________________________________________

______________________________________________________________

______________________________________________________________

______________________________________________________________

______________________________________________________________

______________________________________________________________
Section 5: Drills

Fire Drill:
- Initial notifications
- Familiarity with duties
- Space isolation
- General alarms / signals
- Familiarity with equipment
- Smoke control
- Crew response
- Fire pumps started
- Communications w/bridge
- Properly dressed / equipped
- Two jets of water
- 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: ____________________________________________________________

Logs and Manuals:

- Lifesaving equipment maintenance record
  - Periodic checks as required
  - Visual inspection of survival craft / rescue boat and launching appliances
  - Operation of lifeboat / rescue boat engines
  - Lifesaving appliances, including lifeboat equipment examined

- Emergency training and drills
  - Onboard training in use of lifesaving equipment (all crew members)
  - SOLAS training manual
  - Logbook records
  - Fire and lifeboat drills
  - General alarm tested

- Bridge log
  - Pre-arrival tests conducted
  - Casualties (navigation equipment and steering gear failures reported)
  - Steering gear drills
  - Emergency steering drills

- Information available to master (as required)
  - Loading manual
  - Trim and stability book

- Cargo and ballast system instruction manual

Notes: ____________________________________________________________

______________________________________________________________

______________________________________________________________

______________________________________________________________

______________________________________________________________
Pollution Prevention Records:

- **Oil record book**
  - Each operation signed by person-in-charge
  - Each complete page signed by master
  - Book maintained for 3 years

- **Review the Shipboard Oil Pollution Emergency Plan (SOPEP)** for the following:
  - Approval from flag state or classification society
  - Written in English and working language of crew
  - Procedures for reporting oil pollution incidents
  - List of authorities or persons to be contacted in the event of an oil pollution incident
  - Action to be taken immediately by persons on board to reduce or control discharge of oil following an incident
  - Procedures and POC on the ship for coordinating shipboard action with national and local authorities in combating pollution

- **Review Tank Vessel Response Plan (TVRP)** for the following:
  - Verify that USCG TVRP Approval Letter is valid and not expired
  - Verify that your COTP Zone is an approved zone listed on letter
  - Verify that QI is identified in Plan (Optional – Recommended, not required – call QI and verify contact information in plan is accurate)
  - Verify if OSRO resources are adequate for vessel and they are listed for COTP Zone (Optional – Recommended, not required – call QI and ask for copy of OSRO contract for your COTP Zone)
  - Check plan for any recent updates/ significant changes made since date on Approval Letter.

Gas Detection:

- **Portable gas detectors**
  - Number ________________________________
  - Type
    - Flammable gas detectors
      - Calibrated
      - Tested
    - Toxic gas detectors
      - Capable of measuring all toxic cargoes authorized to be carried
      - Calibrated
  - CAL 46 CFR 153.465
  - 46 CFR 153.526

- **Fixed gas detectors**
  - Calibration
    - Crew knowledgeable in operation
    - Span gas available
    - Zeroing
  - Calibration curves available for all cargoes carried
  - Tested
  - 46 CFR 153.526

Notes:

________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
Pump rooms:

- Ventilation
  - WARNING: Pump room must be adequately ventilated prior to personnel entry.
  - Forced exhaust
  - Termination of external openings
  - Intake below and above floor plates
  - Operable from outside pump room
  - Adequate volume
  - Material condition of ducting

- Pumps
  - Pressure gauges outside pump room and operable
  - Type of drive
  - Material condition

- Shaft seals (where motor rooms are installed)
  - Leakage
  - Vapor-tight
  - Adequate supply of oil (where required)

- General
  - Hoisting arrangement
  - Bilge pumping system
    - Operational
    - Remote controls
    - High-level alarm

Electrical Systems:

- Explosion-proof lighting fixtures
  - Tight globe
  - Heavy construction
  - Explosion-proof seals around cables

Chemical Cargo Records:

- Approved Procedures & Arrangement Manual
- Cargo record book
- Cargo information cards
- Cargo location plan
  - Cargo compatibility
- Cargo piping plan
- Shipping document
- Waiver letters carried
- Certificate of inhibition or stabilization
  - Date added to cargo
  - Length of time effective
  - Temperature limitations
- Current copy of 46 CFR Parts 35, 150, and 153 aboard

Notes:

Verify vessel has access to shore-based computerized damage stability programs

Oil transfer procedures

- Posted
- List of products carried by vessel
- Description of transfer system including a line diagram of piping
- Number of persons required on duty
- Duties by title of each person
- Means of communication
- Procedures to top off tanks
- Procedures to report oil discharges

Chemical Cargo Records:

- Approved Procedures & Arrangement Manual
- Cargo record book
- Cargo information cards
- Cargo location plan
  - Cargo compatibility
- Cargo piping plan
- Shipping document
- Waiver letters carried
- Certificate of inhibition or stabilization
  - Date added to cargo
  - Length of time effective
  - Temperature limitations
- Current copy of 46 CFR Parts 35, 150, and 153 aboard

Notes:
Section 3: Inspection Items for All Vessels

Navigation Equipment:

- Navigation publications (as applicable)  
  - Current and corrected charts  
  - U.S. Coast Pilot  
  - Great Lakes Pilot  
  - Sailing directions  
  - Coast Guard Light List  
  - Notice to mariners  
  - Tide tables  
  - Tidal current tables  
  - International Rules of the Road  
  - Inland Rules of the Road

- Operationally test radar(s) and ARPA  
  - 2 required if over 10,000 GT  
  - Operate independently  
  - ARPA acquires targets

- Compasses  
  - Illuminated gyrocompass with repeater at stand  
  - Illuminated magnetic compass  
  - Current deviation table

- Test electronic depth sounding device and recorder  
  - Accurate readout  
  - Test all transducers  
  - Continuous recorder (chart)

- Speed and distance indicator  
  - 33 CFR 164.40  
  - SOLAS 74/78 V/12

- Propulsion shaft tachometer  
  - SOLAS 74/78 V/12

Notes:

Vent outlets  
- Height above highest cargo area working level  
- Directed vertically upward  
- Flame arrestor (where required)  
- Weather hood  
- Flame screens  
- Located away from air intakes and openings to accommodation spaces

P/V valves  
- Material condition  
- Operation  
- Flame screens

Gauging:

- Type of gauging system  
  - Open  
  - Restricted  
  - Closed

- High-level alarms  
  - Operation  
  - Audible and visual signals  
  - Last tested and inspected  
  - Markings

- Overfill controls  
  - Set points

- Cargo samples  
  - Designated stowage locations  
  - Ventilation

Notes:
Quick-closing Valves:

**NOTE:** Requirements for quick-closing valves are detailed in 46 CFR 153.284.

- **Operation**
  - Tested from at least 2 remote locations
  - Closure time < 30 seconds
  - All valves fully closed
  - Pumps automatically shut off

- **Capable of local manual operation**
  - Reasonably short time
  - Under emergency conditions

- **Fusible elements**
  - Located at tank domes and loading manifold
  - No paint on face of plug

Venting:

- **Type of vent system**
  - Open, gooseneck
  - P/V
  - High velocity

- **Vent piping**
  - No stop valves allowed
  - Bypass capability
  - Material condition
  - Segregation
    - Independent
    - Common
    - Portable
  - Agreement with plans
  - Suitable connections for flushing and draining
  - Coated or lined same as tank
  - Prohibited materials

Radio equipment

- Radios, RDF, Loran
- Electronic position fixing device tested
- GMDSS meets requirements for vessel operating area

Internal communications and control system

- EOT failure alarms
- Telephones
- Voice tubes
- Emergency loudspeaker system
- Public address system
- Bell pulls
- Pilot house controls

Navigation lights and signals

- Control panels
- Running lights
- Anchor lights
- Special day and night signals
- Distress signals and stowage
- Flag signals, international code
- Whistle, light, bells, gongs
- Day and night signal devices
- Certificate of Alternate Compliance

Steering gear

- Main gear tested (all stations)
- Auxiliary gear tested (all stations)
- Instructions and markings
- Rudder angle indicator
- Illumination
- Alarms
- Block diagram

Notes:

---

---

---

---

---
- Maneuvering facts sheet with warning statements
  - EPIRB (406 MHz)
    - Float-free arrangement
    - Battery date current
    - Hydrostatic release
  - GMDSS lifeboat radios (VHF)
    - 3 if over 500 GT
    - Operable condition
  - 9 GHz radar transponder (SART)
    - Vessels > 300 GT and < 500 require 1
    - Vessels > 500 GT require 2
    - Stowed so to be rapidly placed in survival craft, or stowed in survival craft
  - NAVTEX
  - Voyage Data Recorder (VDR)
    - Simplified (SVDR) if permitted
  - Long Range Identification & Tracking (LRIT)
    - Conformance Test Report
  - Automatic Identification System (AIS)

Notes:

- Special tank linings
  - Heating system
    - If toxic cargoes only, system must be separate from vessel's heating system and contamination detection must be available
  - Cooling system
  - Cargo high pressure and temperature alarms
    - Audible
    - Visual
    - Location

Cargo Piping:

- Material condition
  - Annual hydrostatic test
  - Properly marked
- Valves
  - Tank valves
  - Hose connection points
- Agreement with plans
  - New piping
  - No unauthorized modification
- Prohibited materials
  - Aluminum or aluminum alloys
  - Copper or copper alloys
  - Zinc, galvanized steel, or alloys having > 10% zinc
  - Magnesium
  - Lead
  - Silver or silver alloys
  - Mercury

Notes:
Crew respiratory/eye protection
- EEBD > 15-minute duration

Cargo Operations:

Warning signs and signals
- Red signal visible, light/flag
- Warning signs at gangway
  - "Warning"
  - "Dangerous Cargo"
  - "No Smoking"
  - "No Open Lights"

Portable cargo hose
- Marked or stenciled
- Date
- Tested
- Test pressure
- MAWP
- Service temperature
  - Maximum
  - Minimum
- Test pressure

Cargo discharge methods
- Pumproom
- Deepwell pump
- Submerged pump
- Gas pressurization
- Liquid displacement

Cargo Tanks:

Trunks and hatches, ullage openings
- Condition
- Gaskets
- Closure
- Butterworth openings
  - Closed
  - Fitted with flame screens

General Health and Safety:

Hospital and first aid equipment
- 46 CFR 32.40-35

Operating room explosion-proof
- 46 CFR 111.105-37

Emergency lighting
- 46 CFR 112.43
- 46 CFR 35.10-15
- SOLAS 74/78 II-2/43.2

Crew accommodations
- Size
- Lighting and wiring
- Heating
- Ventilation
- Sanitation
- Screens
- Insulation
- Fire retardant

Galley
- Equipment
- Sanitation
- Ventilation

Means of escape from accommodation, machinery, and other spaces
- 46 CFR 32.02-1
- SOLAS 74/78 II-2/45
- Two required (some exceptions)
- Dead end corridors
- Absence of locks

Notices and markings where required
- 46 CFR 35.40
- Conspicuous
- Legible
- Proper size

Gas freeing for repairs
- Current Gas Chemist Certificate for areas as required
- Date
- Chemist No.

Paint stowage
- 46 CFR 32.85
- Closures
- Fireproof / metal lined
- Lighting / electrical
- Fire protection
- Markings
☐ Storerooms
  • Stowage
  • Fire hazards
  • Lighting and wiring

☐ Oxygen sensor (oxygen analysis equip.)

☐ Combustible gas indicator

☐ LPG systems, cylinders, tests

☐ Pilot ladder and hoists in good condition
  • Illumination
  • Spreaders

☐ Intrinsically safe portable radios

☐ Safe access to tanker bows
  (vessels built prior to 1 JUL 98 not required to comply until 1 JUL 2001)

---

Section 4: Additional Inspection Items for Vessels Carrying Dangerous Chemicals in Bulk

Emergency Equipment:

☐ Safety gear lockers
  • Proper locations (minimum of 2)
  • Labeled “Safety Equipment”
  • Proper type and amount of safety equipment

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Amount Required per Safety Gear Locker Location</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Primary Shutdown Station</td>
</tr>
<tr>
<td>2 stretchers with lifting equipment</td>
<td>1</td>
</tr>
<tr>
<td>30-minute SCBA</td>
<td>3</td>
</tr>
<tr>
<td>SCBA refill tanks</td>
<td>11</td>
</tr>
<tr>
<td>First aid equipment</td>
<td>2</td>
</tr>
<tr>
<td>Overalls or long apron</td>
<td>2</td>
</tr>
<tr>
<td>Boots</td>
<td>2</td>
</tr>
<tr>
<td>Long-sleeved gloves</td>
<td>2</td>
</tr>
<tr>
<td>Goggles</td>
<td>2</td>
</tr>
<tr>
<td>Steel-cored lifeline with harness</td>
<td>2</td>
</tr>
<tr>
<td>Explosion-proof flashlight</td>
<td>2</td>
</tr>
</tbody>
</table>

☐ Self-contained breathing apparatus
  • Material condition
  • Operation

☐ Decontamination showers and eye wash on deck
  • Operation
  • Suitably marked

Notes:

---

46 CFR 153.216
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)

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) (f), 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.

Notes: ____________________________________________________
_________________________________________________________
_________________________________________________________
_________________________________________________________

Structural Integrity:

- Hull structure (list inaccessible compartments or areas)
  - Decks
  - Shell
  - Bulkheads
  - Tank tops
  - Strength members
  - Approved plans on board

- Hull openings and closures
  - Side ports
  - Air ports and dead covers
  - Refuse chutes
  - Cargo tank hatches
  - Butterworth plates
  - Closing devices, gaskets
  - Light/water test

- Deck openings and closures
  - Closing devices
  - Gaskets
  - Light/water test

- Guards, ladders, rails, and gangways
  (including accommodation ladders or pilot ladders)
  - Catwalks, lifelines at hazardous places, cable traveler

- Elevators

- Watertight doors in subdivision bulkhead tested by:
  - Local and remote control
  - Alarms
  - Markings

- Cargo gear examined (in absence of Cargo Gear Certificate)
  - Records
  - Safe Working Load markings
Exercise valves and controls
• Bilge valves
• Overboard discharge valves
• Equalizing valves
• Emergency shutoff valves
• Scupper valves
• Remote control
• Reach rods

Bilge wells, cofferdams, and suction

Bulkhead penetrations

Piping protection
• Removable guards (where required)
• Baggage spaces

Hull marks
• Name
• Hailing port
• Official number
• Net tonnage

Draft marks
• Legible
• Properly sized
• Properly spaced

Load line marks
• Conform to certificate
• Legible

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
- **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

#### Ground Tackle:
- **Anchors**
  - Tested
  - Windlass
  - Capstans
  - Automatic tensioning device

- **Mooring, standing and running gear (other than gear covered by Cargo Gear Certificate)**
  - Approved by Administration

- **Emergency towing arrangements**
  - (vessels ≥ 20,000 DWT only)

#### Cargo Operations:
- **Warning notices and signals posted**

- **Pump rooms/pumps**
  - Pumps and controls
  - Relief valves
  - Cofferdams
  - Ventilation
  - Bulkhead penetrations
  - Bilges clean
  - Free of excessive vapors
  - Closures
  - Remote shutdown
  - Electrical controls outside compartment

---

**Notes:**

---
- Cargo tanks
  - Trunks and hatches
  - Ullage openings
  - Liquid level gauges
    - Open
    - Restricted
    - Closed
  - Liquid level devices
  - Deck penetrations
  - Heating coils
  - Explosion-proof electrical fittings
  - Overfill device

- Cargo piping
  - Expansion joints
  - Controls
  - Supports
  - Hoses
  - Valves

- Hoses
  - External examination
  - Hydrostatic test
  - Markings

- Cargo oil containment
  - Size
  - Drains
  - Scupper closures

- 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: __________________________________________________________
___________________________________________________________
___________________________________________________________
___________________________________________________________

Notes: __________________________________________________________
___________________________________________________________
___________________________________________________________
___________________________________________________________

20
**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. An example would be the requirement in 33 CFR 104.265 (e) (3) that vessels check the identification of any person seeking to board the vessel at MARSEC Level 1. In an ASP, the approval authority may take into account the availability of video monitoring capable of facial feature recognition and recording and approve this as satisfying the intent of the requirement for individual identification. 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.

- **Cargo tank venting**
  - Common header system
    - P/V valves
    - Flame arrestors
    - Flush and drain connections
    - Inert gas controls
    - Piping
  - Independent PV valves
    - Flame screen
  - Independent goosenecks
    - Flame screen
    - Closure device

- **Explosion-proof fixtures**

- **Independent tanks**
  - External examination
  - Date of internal examination
  - Date of hydrostatic test
  - Saddles; foundation and stowage
  - Piping and valves
  - Relief valves
  - Securing devices
  - Cargo hose
  - Electrical grounding
  - Authorized cargo

- **Weather decks**
  - Sources of vapor ignition
  - Doors, ports, scuttles, gaskets, and closures satisfactory
  - Portable window air conditioners and fans
  - Ventilation systems

- **Air compressor intakes**
  - Prohibited locations

---

Notes: 

---

---

---

---

---
Inert Gas Systems:

- Purity of nitrogen
- % concentration of nitrogen in vapor space
- % oxygen vapor
- Provisions for hold space and tank pad
- Sampling/testing of gas pad
- Gas generator or spare gas on board
- General
  - Supply capacity adequate
  - Positive pressure
  - Independent blowers
  - Oxygen detector and recorder
  - Pressure indicator and recorder
  - Portable detecting instruments
  - Alarms and controls
    - High oxygen alarm (> 8%)
    - Low pressure alarm (< 100mm)
    - Loss of water supply to deck water seal
      alarm and shutdown
    - High inert gas temperature (> 150°F) alarm and shutdown
    - Loss of water supply to scrubber alarm and shutdown
  - Automatic shutdown valve
  - Instruction manual

Vapor Control Systems:

- Piping
  - Drain lines
  - Electrically bonded to hull
  - Flange stud
  - Vapor connection painted red / yellow / red and labeled vapor in 2-inch black letters

Notes: ____________________________________________________
_________________________________________________________________
_________________________________________________________________
_________________________________________________________________
_________________________________________________________________
_________________________________________________________________
_________________________________________________________________
_________________________________________________________________
• Security procedures followed
• Standing agreements valid

- 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

- Additional requirements for cruise ships

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

- Vessel Security Assessment Report
  - Reviewed and attached to VSP

- Vessel Security Plan
  - Reviewed

- Amendment and audit
  - 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)
  - On the bridge and one other location
  - Designed to prevent inadvertent activation
  - Covert (unmarked, silent, and need to know)
  - Tested IAW VSP

- Closed gauging arrangement
- Liquid overfill protection
  - High-level and tank overfill alarms
  - Alarm with automatic shutdown system
  - Spill valve
  - Rupture disk
    - Intrinsically safe
    - Audible and visual alarms
    - Operational test

**Lifesaving Equipment:**

**NOTE:** Exemptions and alternatives for vessels not subject to SOLAS can be found in 46 CFR 199.800.

- General alarms
  - Controls
  - Batteries and fuses
  - Tested
  - Markings
  - Bell locations audible

- Type of lifeboat
  - Davit launched
  - Free fall

- Lifeboats stripped, cleaned and inspected
  - Date of annual servicing

- Lifeboats and work boats
  - Hull and fittings
  - Tanks and fittings
  - Cradles
  - Gripses
  - Compressed air cylinders
  - Markings

Notes:

_____________________________________________________________________
_____________________________________________________________________
_____________________________________________________________________
### Lifeboat equipment and stowage

(Use table below to determine required equipment)  

<table>
<thead>
<tr>
<th>Item Number</th>
<th>Item</th>
<th>International Voyage</th>
<th>Short International Voyage</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Lifeboat</td>
<td>Rescue Boat</td>
</tr>
<tr>
<td>1</td>
<td>Bailier</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>Bilge pump</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Boat hook</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>Bucket</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>Can opener</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Compass</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>7</td>
<td>Dipper</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Drinking cup</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Fire extinguisher</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>10</td>
<td>First aid kit</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>11</td>
<td>Fishing kit</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Flashlight</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>13</td>
<td>Hatchet</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Heaving line</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>15</td>
<td>Jackknife</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Knife</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Ladder</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>18</td>
<td>Mirror, signalling</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>Oars, units</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>20</td>
<td>Painter</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>21</td>
<td>Provisions (units/persons)</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>Pump</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>Radar reflector</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>24</td>
<td>Rainwater collection device</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>Repair kit</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>26</td>
<td>Sea anchor</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>27</td>
<td>Searchlight</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>28</td>
<td>Seasickness kit (units/person)</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

### 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

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

---

<table>
<thead>
<tr>
<th>Item Number</th>
<th>Item</th>
<th>International Voyage</th>
<th>Short International Voyage</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Lifeboat</td>
<td>Rescue Boat</td>
</tr>
<tr>
<td>29</td>
<td>Signal, smoke</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>30</td>
<td>Signal, hand flare</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>31</td>
<td>Signal, parachute flare</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>32</td>
<td>Skates and fenders(^6)</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>33</td>
<td>Sponge(^7)</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>34</td>
<td>Survival instructions</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>35</td>
<td>Table of lifesaving signals</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>36</td>
<td>Thermal protective aids(^9)</td>
<td>10%</td>
<td>10%</td>
</tr>
<tr>
<td>37</td>
<td>Tool kit</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>38</td>
<td>Tow line(^10)</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>39</td>
<td>Water (liters/person)</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>40</td>
<td>Whistle</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

Footnotes:
1. Each rigid liferaft equipped for 13 persons or more must carry two of these items.
3. Not required for inflated or rigid-inflated rescue boats.
4. A hatchet counts towards this requirement in rigid rescue boats.
5. Oars are not required on a free-fall lifeboat; a unit of oars means the number of oars specified by the boat manufacturer.
6. Rescue boats may substitute buoyant paddles for oars, as specified by the manufacturer.
7. Not required for a rigid rescue boat.
8. Required if specified by the boat manufacturer.
9. Sufficient thermal protective aids are required for at least 10% of the persons the survival craft is equipped to carry, but not less than two.
10. Required only if the lifeboat is also the rescue boat.

Notes:

---

36
Disengaging apparatus examined or tested and marked as required:
- Universal joints
- Safety latches
- Hooks
- Locking knuckles
- Frame

Motor lifeboats:
- Engine operating test
- Cooling water pump
- Ahead and astern test
- Fuel tanks
- Searchlight test (passenger vessels)
- Annual fuel changed
- Extinguishers serviced

Hand-propelled lifeboats:
- Flemming gear
- Transmission oil

Radio installation for lifeboats complies with FCC and/or international convention (where required):
- Portable
- Fixed

Lifeboat operational test:

Davits:
- Foundations
- Moving parts
- Fittings
- Fairleads, cleats, or cruciform bits

Falls (date last renewed or end-for-ended):

MTSA/ISPS Compliance
Vessel Security Plans (VSP):
(If using ASP, skip to next section)

- Compliance documentation
  - Approved Vessel Security Plan

- Waiver
  - Approved by CG-543

- Equivalents
  - Approved by CG-543

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

- 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

Notes:
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________

* Items tested in conjunction with Abandon Ship Drill.
MARPOL Annex I survey
- Discharge of cargo residue
- Approved monitoring and control system

MARPOL Annex II survey
- Discharge of cargo residue
- Approved monitoring and control system

Marine Sanitation Devices:

**NOTE:** Guidance for inspecting marine sanitation devices is detailed in MSM Volume II, Chapter C2.K.

- Marine sanitation device
  - Type I
  - Type II
  - Type III
- Certified for inspected vessels
- Capacity satisfactory
- Installation
  - Operation
  - Ventilation
  - Wiring and piping
  - Maintenance
  - Placard posted
  - Safety
  - Accessibility to parts requiring routine servicing
  - Manufacturer’s instructions available

Lifeboat winches
- Brakes
- Controls
- Cranks
- Covers
- Limit switches and electrical controls

Embarkation aids
- Ladders
- Access
- Spans and lifelines
- Illumination
- Frapping and tricing lines

Lifeboat weight test
- Light load
- Full load: date

Liferafts
- Launching instructions posted
- Equipment and stowage
- Annual service dates
- Hydro release service dates
- Weak link
- Float free
- Illumination
- Markings
- Capacities
- Launching devices tested

Notes:

---

---
Lifefloats and buoyant apparatus
- Equipment
- Stowage
- Markings

46 CFR 199.640

Line-throwing apparatus
- Equipment
- Required drills held
- Magazine
- Type

46 CFR 199.170
SOLAS 74/78 III/17
NVIC 8-69

Lifebuoys
- Lights
- Lines
- Smoke signals
- Stowage
- Markings

46 CFR 199.70(a)
SOLAS 74/78 III/7
SOLAS 74/78 III/27

Lifejackets
- Adult
- Children
- Retro-reflective tape
- Lights
- Whistles
- Work vests
- Stamped passed
- Number of lifejackets rejected by inspector

46 CFR 199.70(b)
SOLAS 74/78 III/7.2.2
MSM Ch. 6.R.3.m
NVIC 2-63
MSM Ch. 6.R.3.q

Lifejacket stowage
- Required notices and markings
- Stowage lockers
- Wearing instructions
- Location instructions (passenger vessels)

46 CFR 199.80(c)

Work vests
- Approved type
- Stowage

46 CFR 35.03
46 CFR 35.03-5
46 CFR 35.03-15

Stateroom notices posted

46 CFR 199.80(c)

Oily waste retention
- Bilge
- Tank

46 CFR 157.17
MSM Ch. B6.D.7

Ballast discharge
- Acceptable processing equipment

33 CFR 155.330
33 CFR 155.350
33 CFR 155.360
33 CFR 155.370
MSM Ch. B6.D.10

Oily bilge discharge
- Piping system
- Stop valve
- Standard discharge connection
- Pump stop

33 CFR 155.380

Prohibited oil spaces

33 CFR 155.470

Emergency shutdown

33 CFR 155.780

Discharge removal equipment

33 CFR 155.205
33 CFR 155.210

Oily bilge discharge
- Sorbents
- Non-sparking tools
- Containers
- Emulsifiers
- Protective clothing
- Scupper plugs
- Non-sparking portable pump

33 CFR 155.430

Deck lighting

33 CFR 155.790

Garbage
- Shipboard garbage properly disposed

33 CFR 151.63
MARPOL Ax. V/3

Discharge from machinery space bilges
- Approved monitoring and control system
- Approved oil water separating equipment

33 CFR 151.10

Notes:
Firemen’s outfits
- Two lockers
- Four outfits
- Protective clothing
- Helmet, boots, and gloves
- Lamp
- Axe
- Self-contained breathing apparatus and lifeline
  - Spare charges

Water spray system
- Coverage (all tank domes, cargo manifolds, deck tanks)
- Operation
- Local/remote control
- Manual or automatic
- Tested
- Can operate simultaneously with fire main systems
- Controls marked
- Material condition

Pollution Prevention:
**NOTE:** Guidance for inspecting pollution prevention items is detailed in MSM Volume II, Chapter 31.

- Pollution placard posted
  - Condition
  - Retro-reflective material

- MARPOL V placard posted

- Person-in-charge designation

- Fuel oil containment
  - Portable
  - Fixed

- Fuel tank vents
  - Flame screens
  - Closures

Fire Protection Equipment:

- Immersion suits
  - Condition

- Placard of lifesaving signals

- Pilot ladder and hoists in good condition

- Station bill posted

- Distress signals
  - 12 rocket parachute flares

**Pollution Prevention:**

- Fire control plan
  - Permanently posted
  - Copy permanently stored in weather-tight container outside deckhouse

- Portable extinguishers
  - Annually serviced
  - Bottles hydrostatically tested (every 5 years)
  - Markings (weight and hydrostatic test date)
  - Spare charges, spare extinguishers

- Semi-portable extinguishers
  - Annually serviced
  - Bottles hydrostatically tested
  - Controls, instructions, markings
  - Hose and diffuser
  - Flexible loops tested or replaced (same as bottle)

Notes:

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________
Fixed fire extinguishing systems

- Controls, instructions, marking
  
- Alarms tested
  
- Piping
  
- Heads, distribution
  
- Bottles weighed annually
  
- Bottles hydrostatically tested (every 12 years)
  
- Flexible loops tested or replaced (10% per year)
  
- Deck foam system
  
- Sea suction, strainers
  
- Fixed system tested
  
- Storage space/door

<table>
<thead>
<tr>
<th>Type of system: (circle appropriate type)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low Pressure CO2</td>
</tr>
<tr>
<td>---------------</td>
</tr>
</tbody>
</table>

Foam tanks

- Markings
  
- Test
  
- Analysis
  
- Refilled

- Polar/non-polar foam
  - Cargo compatible

Fire main system

- Pumps
  
- Piping
  
- Cut-off valves
  
- Drains

- Hydrants (2 effective streams)
  
- Nozzles and spanners
  
- Fog applicators (<6 feet in length, in engineroom)
  
- Hose
  - UL approved
  - Correct length

- Markings
  
- Equipment compatible

- Storage space/door

Total length of all hose tested _______________

- Hydrostatically tested to at least 100 psi
  
- Proper threads
  
- Approved hose

Structural fire protection

- Bulkheads
  
- Insulation

- Machinery space and stair towers
  
- Not tied or blocked open
  
- Installed closure devices working

Remote controls to power ventilation marked and tested

Closures for spaces protected by fixed smothering systems

International shore connection

Fire axe

Notes:

- Markings