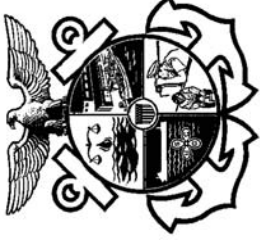


**United States Coast Guard**



**Offshore Supply Vessel Inspector  
Job Aid**

<b>Name of Vessel</b>	
<b>Official Number</b>	<b>Activity Number</b>
<b>Date Completed</b>	<b>Class</b>
<b>Location</b>	
<b>Vessel Built in Compliance with SOLAS: 60 74 74/78 NA</b>	
<b>Route</b>	
<input type="checkbox"/> Oceans	<input type="checkbox"/> Limited Coastwise <input type="checkbox"/> Lakes / Bays / Sounds
<input type="checkbox"/> Coastwise	<input type="checkbox"/> Great Lakes
<b>Inspection Type</b>	
<input type="checkbox"/> Inspection for Certification (COI)	<input type="checkbox"/> Annual
<input type="checkbox"/> Periodic	<input type="checkbox"/> Drydocking
<b>Inspectors</b>	
1. _____	3. _____
2. _____	4. _____

**Use of Offshore Supply Vessel (OSV) Job Aid:**

This Job Aid is intended for use by qualified Coast Guard OSV Marine Inspectors for use on U.S. flagged OSV's during hull and machinery exams on vessels regulated under Subchapter L. For OSVs built prior to March 15, 1996, Subchapter I or Subchapter T may apply; therefore regulatory cites from the Hull, Machinery or T-Boat Job Aid may be applicable.

The tasks contained within this Job Aid are not intended to limit the scope or depth of inspection. A checked box should be a running record of what has been inspected and 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 and references given are only general guidance to the Marine Inspector. The Marine Inspector will need to refer to other publications such as the International Maritime Organization (IMO) resolutions, U.S. Codes of Federal Regulation (CFR), USCG Navigation and Vessel Inspection Circulars (NVIC) or locally produced guidance during the course of inspection for specific regulatory references. Not all items in this Job Aid are applicable to all vessels.

**NOTE:** *Guidance on how to conduct inspections of U.S. flagged OSVs can be found in MSM Volume II, Section B: Domestic Inspection Programs.*

**Pre-inspection Items**

- Review MISLE records
- Obtain copies of forms to be issued
- Issue letters/certificates to vessel
- Complete MISLE entries within 48 hours

**Post-inspection Items**

**Conversions:**

<b>Distance and Energy</b>			
Kilowatts (kW)	X	1.341	= Horsepower (hp)
Feet (ft)	X	3.281	= Meters (m)
Long Ton (LT)	X	.98421	= Metric Ton (t)
<b>Liquid (NOTE: Values are approximate)</b>			
Liquid	bb/LT	m <sup>3</sup> /t	bb/ft
Freshwater	6.40	1.00	6.29
Saltwater	6.24	.975	5.98
Heavy Oil	6.77	1.06	7.06
DFM	6.60	1.19	8.91
Lube Oil	7.66	1.20	9.05
<b>Weight</b>			
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 m <sup>3</sup>	1 psi	= .06895 Bar = 2.3106 ft of water
<b>Temperature: Fahrenheit = Celsius (°F = 9/5 °C + 32 and °C = 5/9 (°F – 32))</b>			
0	= -17.8	80	= 26.7
32	= 0	90	= 32.2
40	= 4.4	100	= 37.8
50	= 10.0	110	= 43.3
60	= 15.6	120	= 48.9
70	= 21.1	150	= 65.6
200	= 93.3	250	= 121.1
300	= 148.9	400	= 204.4
500	= 260	1000	= 537.8
<b>Pressure: Bars = Pounds per square inch</b>			
1 Bar	= 14.5 psi	5 Bars	= 72.5 psi
2 bars	= 29.0 psi	6 Bars	= 87.0 psi
3 Bars	= 43.5 psi	7 Bars	= 101.5 psi
4 Bars	= 58.0 psi	8 Bars	= 116.0 psi
9 Bars	= 130.5 psi	10 Bars	= 145.0 psi

Notes: \_\_\_\_\_

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**Section 1: Administrative Items**

**IMO Applicability Dates:**

Reference	Dates
<b>1974 SOLAS (2014 Consolidated)</b>	
Chapter (I)	All Ships
Chapter (II-1)	01 JAN 09
Chapter (II-2)	01 JUL 02
Chapter (III)	01 JUL 98
Chapters (IV-XII)	All Ships
<b>1974 SOLAS (2009 Consolidated)</b>	
Chapter (II-1)	01 JAN 09
Chapter (II-2)	01 JUL 02
Chapter (III)	01 JUL 98
<b>1974 SOLAS (2004 Consolidated)</b>	
Chapter (II-1)	01 JUL 86
Chapter (II-2)	01 JUL 02
Chapter (III)	01 JUL 98
<b>1974 SOLAS (2001 Consolidated)</b>	
Chapter (II-1)	01 JUL 86
Chapter (II-2, III)	01 JUL 98
<b>1974 SOLAS (1997 Consolidated)</b>	
Chapters (II-1, II-2 Part A, C, D, III)	01 JUL 86
Chapter (II-2 Part B)	01 OCT 94
<b>1974 SOLAS (1981 Amendments)</b>	
Chapters (II-1, II-2, III)	01 SEP 84
<b>1974 SOLAS (Unamended)</b>	25 MAY 80
<b>1960 SOLAS</b>	Prior to 25 MAY 80

Notes: \_\_\_\_\_

Notes: \_\_\_\_\_

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<p><b>74 SOLAS 2014</b> Consolidated contains all amendments entered into force up-to 01 Jul 14. The following Amendments (resolutions) have entered into force since it was published. <a href="http://www.imo.org">www.imo.org</a></p> <p>MSC 365(93)</p> <p>MSC 366(93)</p>	<p>01 JUL 15</p> <p>01 JUL 15</p>
<p><b>FSS CODE (2015 edition)</b></p>	
<p><b>LSA Code (2017 edition)</b></p>	
<p><b>ITC 1969</b></p>	<p>18 JUL 82</p>
<p><b>Load Line 1966</b></p>	<p>21 JUL 68</p>
<p><b>Load Line 88 Protocol</b></p>	<p>03 FEB 00</p>
<p><b>Load Line (2005 edition)</b> contains all amendments entered into force up-to 2003 Amendments. The following Amendments (resolutions) have entered into force since it was published. <a href="http://www.imo.org">www.imo.org</a></p> <p>MSC 172(79)</p> <p>MSC 223(82)</p> <p>MSC 270(85)</p> <p>MSC 329(90)</p> <p>MSC 356(92)</p> <p>MSC 375(93)</p>	<p>01 JUL 06</p> <p>01 JUL 08</p> <p>01 JUL 10</p> <p>01 JAN 14</p> <p>01 JAN 15</p> <p>01 JAN 16</p>
<p><b>MARPOL 2017</b> Consolidated contains all amendments entered into force up-to 01 JAN 2017 Amendments. The following Amendments (resolutions) have entered into force since it was published. <a href="http://www.imo.org">www.imo.org</a></p>	
<p><b>STCW (2017 edition)</b> contains all amendments entered into force up-to 2017 Amendments. The following Amendments (resolutions) have entered into force since it was published. <a href="http://www.imo.org">www.imo.org</a></p>	<p>28 APR 84</p>

Involvement Parties & General Information:

Vessel's Representative: _____
_____
Phone Numbers: _____

Owner
_____
_____
_____
<input type="checkbox"/> No Change

Operator – Listed on DOC (if applicable) or COFR
_____
_____
_____
<input type="checkbox"/> No Change

Deficiency Summary Worksheet:

Name of Vessel	Deficiency	Req't. Issued/ Date Cleared

**Recommended U.S. Vessel Deficiency Procedures:**

<b>Step</b>	<b>Action</b>								
1	Identify deficiency								
2	Inform vessel representative								
3	Record on the Deficiency Summary Worksheet (next page)								
4	If deficiency is corrected prior to end of inspection, go to step 6								
5	If deficiency is unable to be corrected prior to end of inspection, issue CG-835V in accordance with the table below:								
	<table border="1"> <tr> <td><b>IF deficiency:</b></td> <td><b>THEN issue CG-835V:</b></td> </tr> <tr> <td>Does NOT immediately impact crew/offshore worker safety, hull seaworthiness or the environment, e.g., <ul style="list-style-type: none"> <li>Missing placards</li> <li>Non-metallic expansion joints if more than 10 years in service</li> </ul> </td> <td>That provides a specific time for correcting deficiency, e.g., <ul style="list-style-type: none"> <li>"X" number of days</li> <li>At next drydock</li> </ul> </td> </tr> <tr> <td>Allows Vessel operations to be MODIFIED to meet less stringent requirements, e.g., <ul style="list-style-type: none"> <li>Expired international certificates</li> <li>Automation defect</li> <li>Insufficient lifesaving equipment</li> </ul> </td> <td>That restricts operation of vessel to meet current vessel conditions, e.g., <ul style="list-style-type: none"> <li>Reduced route</li> <li>Increased crew</li> <li>Fewer offshore workers</li> </ul> </td> </tr> <tr> <td>DOES immediately impact crew/offshore worker safety, hull seaworthiness, or the environment and cannot be modified to meet less stringent requirements, e.g., <ul style="list-style-type: none"> <li>Missing or defective firefighting equipment</li> <li>Structural defect or damage</li> </ul> </td> <td>That requires the deficiency to be corrected prior to operating vessel ("NO SAIL" item), e.g., <ul style="list-style-type: none"> <li>Prior to carrying offshore workers</li> <li>Prior to carrying cargo</li> </ul> </td> </tr> </table>	<b>IF deficiency:</b>	<b>THEN issue CG-835V:</b>	Does NOT immediately impact crew/offshore worker safety, hull seaworthiness or the environment, e.g., <ul style="list-style-type: none"> <li>Missing placards</li> <li>Non-metallic expansion joints if more than 10 years in service</li> </ul>	That provides a specific time for correcting deficiency, e.g., <ul style="list-style-type: none"> <li>"X" number of days</li> <li>At next drydock</li> </ul>	Allows Vessel operations to be MODIFIED to meet less stringent requirements, e.g., <ul style="list-style-type: none"> <li>Expired international certificates</li> <li>Automation defect</li> <li>Insufficient lifesaving equipment</li> </ul>	That restricts operation of vessel to meet current vessel conditions, e.g., <ul style="list-style-type: none"> <li>Reduced route</li> <li>Increased crew</li> <li>Fewer offshore workers</li> </ul>	DOES immediately impact crew/offshore worker safety, hull seaworthiness, or the environment and cannot be modified to meet less stringent requirements, e.g., <ul style="list-style-type: none"> <li>Missing or defective firefighting equipment</li> <li>Structural defect or damage</li> </ul>	That requires the deficiency to be corrected prior to operating vessel ("NO SAIL" item), e.g., <ul style="list-style-type: none"> <li>Prior to carrying offshore workers</li> <li>Prior to carrying cargo</li> </ul>
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Allows Vessel operations to be MODIFIED to meet less stringent requirements, e.g., <ul style="list-style-type: none"> <li>Expired international certificates</li> <li>Automation defect</li> <li>Insufficient lifesaving equipment</li> </ul>	That restricts operation of vessel to meet current vessel conditions, e.g., <ul style="list-style-type: none"> <li>Reduced route</li> <li>Increased crew</li> <li>Fewer offshore workers</li> </ul>								
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6	Enter CG-835V data in MISLE								

**Vessel Information:**

Classification Society	
ISM Issuer: Same as above?	
<input type="checkbox"/> Yes	<input type="checkbox"/> No If not the same, which Recognized Organization? _____
<b>NOTE:</b> The period of validity for ISM documents should correspond to the following list. If they do NOT, ISM documents should be further investigated.	
<input type="checkbox"/> 5 years = Full term (SMS and DOC)	<input type="checkbox"/> 12 months = Interim (DOC)
<input type="checkbox"/> 6 months = Interim (SMC)	<input type="checkbox"/> 5 months = Short term (SMC)
Last Drydocking Date	Next Drydocking Date
Location of Last Drydocking	
Call Sign	<input type="checkbox"/> No Change
Gross Tons	<input type="checkbox"/> No Change
Built Date (use delivery date)	<input type="checkbox"/> No Change
Overall Length (in feet)	<input type="checkbox"/> No Change

**Certificates and Documents**

5

<b>Name of Certificate</b>	<b>Issuing Agency</b>	<b>ID #</b>	<b>Port Issued/ Country</b>	<b>Issue Date</b>	<b>Exp. Date</b>	<b>Endors. Date</b>
<input type="checkbox"/> No Change <b>Certificate of Documentation</b>	USCG					
<input type="checkbox"/> No Change <b>Classification Document</b>						
<input type="checkbox"/> No Change <b>Certificate of Financial Responsibility (COFR)</b>	USCG					
<input type="checkbox"/> No Change <b>FCC Station License</b>	FCC					
<input type="checkbox"/> No Change <b>FCC Safety Certificate</b>	FCC					
<input type="checkbox"/> No Change <b>FCC Marine Operator's Permit</b>	FCC					

Vessel Layout:



**Appendices**





Endors. Date	Exp. Date	Issue Date	Port Issued/ Country	ID #	Issuing Agency	Name of Certificate	Cargo Ship Safety Construction	Cargo Ship Safety Equipment	Cargo Ship Safety Radio	International Load Line (ILLC)	International Tonnage (ITC)	ISM Document of Compliance (DOC)	ISM Safety Management (SMC)
							<input type="checkbox"/> No Change	<input type="checkbox"/> No Change	<input type="checkbox"/> No Change	<input type="checkbox"/> No Change	<input type="checkbox"/> No Change	<input type="checkbox"/> No Change	<input type="checkbox"/> No Change
					USCG		<input type="checkbox"/> No Change	<input type="checkbox"/> No Change	<input type="checkbox"/> No Change	<input type="checkbox"/> No Change	<input type="checkbox"/> No Change	<input type="checkbox"/> No Change	<input type="checkbox"/> No Change
					USCG		<input type="checkbox"/> No Change	<input type="checkbox"/> No Change	<input type="checkbox"/> No Change	<input type="checkbox"/> No Change	<input type="checkbox"/> No Change	<input type="checkbox"/> No Change	<input type="checkbox"/> No Change
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- 185. Complete MISLE Activity
  - Open existing activity in MISLE  
MSM I/12.G.2.a  
IMO Res A.1120(30)
  - Update inspection results  
MSM I/12.H.1
  - Update activity narrative  
MSM I/A.2.C.2.d  
MISLE User Guide
  - Update vessel details  
MSM I/12.H.1  
MISLE User Guide
  - Amend Certificate of Inspection  
MSM I/12.H.1  
MISLE User Guide
  - Print new or amended Certificate of Inspection and Deficiency Letter  
MSM I/A.2.C.6 & I/A.3  
MISLE User Guide
  - Change activity status to "Open - Submitted for Review"  
MSM I/12.H.1  
IMO Resolution A.1120(30)  
Survey Guidelines Under the Harmonized System of Survey and Certification (HSSC), 2017
  
- 186. Verify deficiency corrections
  - Determine an appropriate verification method for identified deficiency(s)  
MSM I/A.2.C.4
  - Verify correction(s) meet appropriate regulations  
MSM I/A.2.C.4.a
  - Clear deficiency(s) in MISLE activity  
MSM I/A.2.C.2.d  
MISLE User Guide
  - Remove control action  
MISLE User Guide
  
- 187. Ensure completion of drydock examination
  - Verify completions of all repairs  
MSM I/A.2.C
  - Issue amended Certificate of Inspection or amendment  
MPS-PR-SEC-05
  - Endorse SOLAS Cargo Safety Construction Certificate  
SOLAS 14 I/10

Endors. Date	Exp. Date	Issue Date	Port Issued/ Country	ID #	Issuing Agency	Name of Certificate	International Oil Pollution Prevention (IOPP)	International Sewage Pollution Prevention (ISPP)	International Air Pollution Prevention (IAPP)
							<input type="checkbox"/> No Change	<input type="checkbox"/> No Change	<input type="checkbox"/> No Change

- Verify presence of leak indicating solution ABS 3-7-1/3.5.4(f)
- Verify test gauge pressure ABS 3-7-1/3.5.4(f)
- Witness test ABS 3-7-1/3.5.4(f)

## Follow-Up

- 182. Verify vessel compliance with the International Safety Management (ISM) Code
  - Verify Master's responsibilities, authorities and over-riding authority 33 CFR 96.250 SOLAS 14 IX/3.1
  - Verify maintenance program for vital equipment 33 CFR 96.250 ISM Code A/10.3
  - Verify compliance of Safety and Environmental Policy 33 CFR 96.250 ISM Code A/2
  - Verify record keeping compliance 33 CFR 96.220(a)(3) ISM Code A/10.2.4
  - Verify company responsibilities and authority are defined. 33 CFR 96.250 ISM Code A/3
  - Verify crew can identify and contact information of designated person(s) ashore 33 CFR 96.250 ISM Code A/4
  - Review audit documentation and ensure follow-up actions 33 CFR 96.250 ISM Code A1.4.6, A/9
- 183. Issue deficiencies
  - Determine deficiency's reference cite 46 USC 3313(b) MSM I/A.2.C.4.b
  - Discuss deficiencies and corrective measures/timeframe with vessel's master or representative MSM I/A.2.C.2
  - Issue signed CG-835V to vessel's master or representative MSM I/A.2.C
  - Make entry on the Vessel Inspection Record (CG-2832) MSM I/A.3.Q
- 184. Issue/Endorse vessel's certificates
  - Issue/Endorse certificates, as applicable 46 CFR 126.510(a)(2) SOLAS 14 I/12
  - Obtain a copy of all endorsed certificates for the unit's vessel file MSM I/12.E.7

178. Inspect nondestructive testing (NDT) using the pneumatic method (Piping Systems)

- Verify test medium and temperature  
46 CFR 126.470  
46 CFR 56.97-35(b)
- Verify piping components are isolated  
46 CFR 56.97-35(c)
- Verify test pressure  
46 CFR 56.97-35(f) & (g)
- Witness gradual pressure increase  
46 CFR 56.97-35(d)
- Verify test pressure is attained and maintained  
46 CFR 56.97-35(h)
- Witness test  
46 CFR 56.97-35(e)

179. Inspect nondestructive testing (NDT) using the tank air test (pneumatic) method (Tanks and Bulkheads)

- Verify tanks/space is ready for testing  
46 CFR 127.210  
ABS 3-7-1/3.5.4(d)
- Verify piping components are isolated  
ABS 3-7-1/3.5.4(d)
- Verify test pressure  
ABS 3-7-1/3.5.4(d)
- Verify presence of leak indicating solution  
ABS 3-7-1/3.5.4(d)
- Verify calibration of means to measure pressure  
ABS 3-7-1/3.5.4(d)
- Witness initial test  
ABS 3-7-1/3.5.4(d)
- Witness secondary test  
ABS 3-7-1/3.5.4(d)

180. Inspect nondestructive testing (NDT) using the hose test method (Tanks and Bulkheads)

- Verify tanks/space is ready for testing  
46 CFR 127.210  
ABS 3-7-1/3.5.4(c)
- Verify nozzle size  
ABS 3-7-1/3.5.4(c)
- Verify water pressure  
ABS 3-7-1/3.5.4(c)
- Verify nozzle distance from joints/seams during test  
ABS 3-7-1/3.5.4(c)
- Witness test  
ABS 3-7-1/3.5.4(c)

181. Inspect nondestructive testing (NDT) using the vacuum box method (Tanks and Bulkheads)

- Verify tanks/space is ready for testing  
46 CFR 127.210  
ABS 3-7-1/3.5.4(f)
- Verify condition of gauge and injector  
ABS 3-7-1/3.5.4(f)

## Section 2: Inspection Items

### Pre-Inspection

- 1. Research vessel details in MISLE (Marine Information for Safety and Law Enforcement) information system
  - Determine authority, jurisdiction and applicable regulations  
46 USC 3301(3)  
46 CFR 125.100
  - Locate vessel in MISLE  
MSM I/12.G.5
  - Verify documents are current in MISLE  
MPS-PR-SEC-04  
MSM II/B.1.C.2
  - Review history (narratives, deficiencies & special notes)  
MPS-PR-SEC-04  
MSM II/B.1.C.2
  - Verify status of user fees  
MPS-PR-SEC-01  
MSM II/B.1.C.2
  - Enter title and point(s) of contact  
MSM II/B.1.C.2
  - Vessel General Permit  
CG-543 Policy Ltr 11-01
  - Verify status of Certificate of Financial Responsibility (e-COFR)  
33 CFR 138.15(a)(2)
  - Generate new activity  
MPS-PR-SEC-04  
MSM I/12.H
  - Prepare folder and required documents  
MPS-PR-SEC-04
- 2. Coordinate inspection with vessel's representative
  - Verify vessel's representative  
MPS-PR-SEC-01
  - Determine location and time of inspection  
MPS-PR-SEC-01
  - Discuss inspection expectations  
46 CFR 126.430  
MSM II/B.1.D.1 & B.2.A.1
  - Verify vessel's owner/operator information  
MPS-PR-SEC-04
  - Verify vessel's Classification Society information  
MPS-PR-SEC-04
  - Review outstanding conditions from third party reports and/or CG-835s  
MPS-PR-SEC-04
  - Review repairs and alterations  
46 CFR 126.150

- 3. Mitigate potential hazards encountered during an inspection
  - Recognize potential hazards encountered during inspection
  - Determine confined spaces
  - Determine if exam scope will require a Marine Chemist certification for space entry
  - Verify Marine Chemist has been scheduled for exam
  - Prepare necessary personal protective equipment for exam
  - Review CG policy for when to leave a space due to hazardous condition

## Dockside Assessment

- 4. Initial vessel visual examination (upon arrival)
    - Verify presence of anchor(s)
    - Verify Load Line markings
    - Verify IMO number
    - Verify draught (draft) marks
    - Verify name, hailing port and official number markings
    - Evaluate hull for signs of pollution/illegal discharge
    - Evaluate hull condition
    - Examine means of embarkation (gangway/ladders)
    - Examine cargo ports and other similar openings
    - Examine sidescuttles (windows/skylights)
    - Verify condition of mooring lines
- 
- 46 CFR 130.240-.250
  - 46 CFR 125.140
  - 46 CFR 131.230
  - 33 CFR 104.297
  - SOLAS 14 XI-1/3
  - 46 CFR 131.220
  - SOLAS 14 II-1/5.6
  - 46 CFR 131.210
  - 46 CFR 67.121
  - 33 USC 1321
  - MARPOL I/15
  - 46 CFR 126.140 -.150
  - SOLAS 14 II-1/3-1
  - 29 CFR 1915.74(a)(6)
  - SOLAS 14 II-1/3-9
  - ICLL I/21
  - ICLL I/23
  - 46 CFR 130.240-.250
- 
- Verify test pressure  
46 CFR 54.10-10(b)  
46 CFR 54.10-20
  - Verify test pressure is attained and maintained  
46 CFR 54.10-10(c)
  - Witness test  
46 CFR 54.10-10(c)
175. Inspect nondestructive testing (NDT) using the hydro-static method (Piping Systems)
- Verify test pressure of nonstandard piping components  
46 CFR 126.470  
46 CFR 56.97-5
  - Verify system is ready for testing  
46 CFR 56.97-25
  - Verify air has been purged  
46 CFR 56.97-30(a)
  - Verify test medium  
46 CFR 56.97-30(b)
  - Verify piping components are isolated  
46 CFR 56.97-30(c)
  - Verify test pressure  
46 CFR 56.97-30(e) & (f)
  - Witness test  
46 CFR 56.97-30(d)
  - Verify test pressure is attained and maintained  
46 CFR 56.97-30(g)
  - Verify pressures for Installation tests  
46 CFR 56.97-40
176. Inspect nondestructive testing (NDT) using the hydro-static method (Tanks and Bulkheads)
- Verify tanks/space is ready for testing  
46 CFR 127.210  
ABS 3-7-1/3.5.4(a) & (b)
  - Verify test medium being used  
ABS 3-7-1/3.5.4(a) & (b)
  - Verify piping components are isolated  
ABS 3-7-1/3.5.4(a) & (b)
  - Verify test pressure  
ABS 3-7-1/3.5.4(a) & (b)
  - Witness test  
ABS 3-7-1/3.5.4(a) & (b)
177. Inspect nondestructive testing (NDT) using the pneumatic method (Pressure Vessels)
- Determine suitability for test  
46 CFR 126.470  
46 CFR 54.10-15(a) & (b)
  - Ensure all safety precaution are taken  
46 CFR 54.10-15(g)
  - Verify test pressure  
46 CFR 54.10-15(c)
  - Witness gradual pressure increase  
46 CFR 54.10-15(d)
  - Witness test  
46 CFR 54.10-15(e)

# Certificates & Documents

- Witness application of visible magnetic particles ABS NDT Guide 7/5.7.3
  - Witness application of fluorescent particles ABS NDT Guide 7/5.7.4
  - Witness technician examine/interpret readings ABS NDT Guide 7/5.7 & 9
  - Evaluate test results or review technician's report ABS NDT Guide 7/5.7 & 9
172. Inspect nondestructive testing (NDT) using the radiography (gamma rays or x-rays) method
- Verify technician's qualification and certification 46 CFR 127.210  
ABS 2-4-1/5.17
  - Verify inspection technique ABS NDT Guide 2/5.3
  - Verify film identification markings ABS NDT Guide 2/5.5
  - Verify radiography quality level ABS NDT Guide 2/5.7
  - Verify image Quality Indicator (IQ) ABS NDT Guide 2/5.9
  - Witness technician examine/interpret readings ABS NDT Guide 2/5.15
  - Review technician's report ABS NDT Guide 2/9 & 11
173. Inspect nondestructive testing (NDT) using the ultrasonic method
- Verify technician's qualification, certification and techniques 46 CFR 127.210  
ABS 2-4-1/5.17
  - Verify calibrate block's material and thickness ABS NDT Guide 5/3.5
  - Verify type of equipment/instrument used ABS NDT Guide 5/3.7
  - Verify equipment is calibrated ABS NDT Guide 5/3.9
  - Witness technician examine/interpret readings ABS NDT Guide 5/3.11
  - Evaluate test results or review technician's report ABS NDT Guide 5/3.13
174. Inspect nondestructive testing (NDT) using the hydro-static method (Pressure Vessels)
- Verify requirement for test 46 CFR 126.470  
46 CFR 54.10-10(a)
  - Verify ready for testing 46 CFR 54.10-10(b)
  - Verify air has been purged 46 CFR 54.10-10(b)
  - Verify piping components are isolated 46 CFR 54.10-10(b)

5. Review Certificate of Inspection (COI)
- Verify presence and location 46 CFR 126.240
  - Validate manning 46 CFR 131.920 & 126.220  
46 CFR 15 Subpart D & E
  - Validate number of offshore workers authorized 46 CFR 126.170
  - Validate route(s) and service 46 CFR 126.220
  - Validate fire fighting and lifesaving equipment 46 CFR 126.220
  - Validate cargo carriage 46 CFR 126.460  
46 CFR 125.110-.130
  - Review amendment(s) 46 CFR 126.270  
MSM III/A.3.J
6. Review Certificate of Documentation (COD)
- Verify presence of original 46 CFR 67.313
  - Verify contact information is correct 46 CFR 67.321
  - Verify endorsement(s) for current service(s) 46 CFR 67.17  
46 CFR 67.19
  - Confirm renewal of endorsement 46 CFR 67.163  
46 CFR 67.7
7. Examine stability letter, book and loading criteria
- Verify presence of current stability documents 46 CFR 127.230  
46 CFR 170.105 - .140 (Subpart D)
  - Determine if any modifications or alterations have occurred 46 CFR 126.150
  - Verify modifications or alterations are addressed in current stability Letter or Book 46 CFR 126.150
  - Verify tonnage arrangement is in compliance with stability documents 46 CFR 126.150
  - Verify stability requirements are documented 46 CFR 131.513

- 8. Review Load Line Certificate (International (LLC) / Coastwise)
  - Verify presence and type  
ICLL Article 16  
46 CFR 42.03-5
  - Verify validity  
ICLL Article 15  
ICLL Article 19
  - Verify proper certificate form  
ICLL Article 18  
46 CFR 42.07-45(e)
  - Confirm load line observed on hull matches certificate  
ICLL I/9  
46 CFR 42.07-5
  - Verify presence and information contained in the Load Line Survey is valid  
46 CFR 42.07-35 g & h  
46 CFR 42.09-1(c) &-15(a)
- 9. Review Merchant Mariner Credentials (MMCs), Medical Certificates & Transportation Worker Identification Credential (TWIC)
  - Ensure MMCs, including STCW endorsements, meet COI manning requirements  
46 CFR 131.920  
46 CFR 15.515
  - Verify presence of original MMCs  
46 CFR 10.205  
46 CFR 131.955
  - Verify Radar Operator endorsement  
46 CFR 131.920  
46 CFR 15.815
  - Verify TWIC  
46 CFR 10.203
  - Verify Radio Officer/Global Maritime Distress and Safety System (GMDSS) operator endorsements  
46 CFR 11.603  
47 CFR 80.155 & .1073
  - Examine Medical Certificates  
46 CFR 10.301, 15.401  
NVIC 01-14
  - Verify number of GMDSS Operators  
47 CFR 80.1073  
SOLAS 14 IV/16
- 10. Inspect compliance of drug and alcohol program
  - Verify compliance with required Employee Assistance Program (EAP), including education and training  
46 CFR 16.401(a)  
46 CFR 16.401(b)
  - Verify presence and currency of drug and alcohol testing equipment  
46 CFR 4.06-15
  - Verify training of designated testing equipment crewmen  
46 CFR 4.06-20(a)(3)  
46 CFR 4.06-20(b)
  - Verify crew are enrolled in a drug testing program  
46 CFR 16.210  
46 CFR 16.230

- 168. Inspect back gouge
  - Examine welds for defects (discontinuity)  
46 CFR 127.210  
ABS 2-4-1/5.9
  - Verify weld sequencing  
NVIC 07-68 V(F)  
ANSI/AWS D3.5-93
  - Verify joints are cleaned between interpasses  
NVIC 07-68 V(H)  
ABS 2-4-1/3.5
- 169. Inspect welds
  - Examine welds for uniformity and reinforcement  
46 CFR 127.210  
ABS 2-4-1/5.15.1
  - Examine welds for defects (discontinuity)  
ABS 2-4-1/5.15.1  
NVIC 07-68 V(H)
  - Examine adjacent base metal for injurious arc strikes, spatter, undercut, overlap, slag and irregular and/or sharp edges  
ABS 2-4-1/5.15.1
  - Verify workmanship through an nondestructive test  
ABS 2-4-1/5.15.2  
ABS 2-4-1/5.17

### Nondestructive Testing

- 170. Inspect nondestructive testing (NDT) using the liquid (dye) penetrant method
  - Verify technician's qualification and certification  
46 CFR 127.210  
ABS 2-4-1/5.17
  - Witness application technique  
ABS NDT Guide 6/5.5
  - Witness application procedures  
ABS NDT Guide 6/5.7
  - Witness visible penetrant examination  
ABS NDT Guide 6/7.5
  - Witness fluorescent penetrant examination  
ABS NDT Guide 6/7.7
  - Evaluate test results or technician's report  
ABS NDT Guide 6/9 & 11
- 171. Inspect nondestructive testing (NDT) using the magnetic particle method
  - Verify technician's qualification and certification  
46 CFR 127.210  
ABS 2-4-1/5.17
  - Verify inspection technique  
ABS NDT Guide 7/5.5
  - Verify equipment and magnetic field strength  
ABS NDT Guide 7/5.7.1 & .2

- Verify unsatisfactory condition(s) are resolved

46 CFR 42.09-45

## Welding Repair

- 164. Evaluate structural repair proposals
  - Evaluate extent of damage and/or wastage/corrosion
  - Review repair proposal
  - Verify repair materials
  - Verify welding procedures
  - Evaluate alternative repair methods for equivalency
- 165. Verify welding Procedure Qualification Record(s) (PQR)
  - Confirm need for qualified welding procedure
  - Verify variables on PQR(s) to the Welding Procedure Specification (WPS(s))
  - Verify tests and results
- 166. Verify welder is qualified to perform repair work
  - Confirm need for qualified welding procedure
  - Verify Welder Performance Qualification (WPQ) is valid
  - Verify variables on WPQ(s)
  - Verify tests are satisfactory
- 167. Inspect fit-up
  - Examine material and verify it is fitted to approved joint detail
  - Verify materials (base, filler, gas)
  - Verify welding processes

- 11. Review International Noxious Liquid Substance Certificate (International Pollution Prevention Certificate for the Carriage of Noxious Liquid Substances (NLS) in Bulk or Certificate of Fitness (COF)
  - Verify vessel particulars
  - Verify vessel COI authorizes carriage
  - Verify carriage is identified IAW IBC Code
  - Verify carriage identified by tank numbers and locations
  - Verify carriage identified by pollution category
  - Verify standard of damage (COF)
  - Verify exemptions or compliance to guidelines
  - Verify any extension, renewal or change in anniversary date endorsements
  - Verify Tank Plan and additional NLS cargoes identified in Cargo Record Book
- 12. Examine maintenance and service records (life saving & fire fighting)
  - Review fire fighting service reports
  - Review lifesaving service report(s)
- 13. Examine muster lists and emergency instructions (additional steps found in LS cards)
  - Verify muster lists and emergency instructions are available
  - Verify muster lists and emergency instructions are posted
  - Verify information on muster lists and emergency instructions
- 14. Review International Safety Management, Document of Compliance (DOC) and Safety Management Certificate (SMC)
  - Verify presence of DOC (copy)
  - Verify DOC identifies company and vessel type



- Verify DOC validity with annual verifications 33 CFR 96.330(f) ISM Code B/13.4 46 CFR 126.140(f)(1) 46 CFR 197.400
- Verify presence of SMC 33 CFR 96.340(d) SOLAS 14 IX/4.3 46 CFR 126.140(f)(2) NVIC 01-89 Encl.1/5.c
- Verify vessel particulars listed on SMC match DOC ISM Code Appendix 46 CFR 126.140(f)(3) NVIC 01-89 Encl.1/2.a(12)
- Verify intermediate verification or additional verifications are complete 33 CFR 96.340.(e) IMO Res A.1118 (30) 46 CFR 126.140(f)(2) NVIC 01-89 Encl.1/4
- Verify extension or renewal endorsements 33 CFR 96.340(f) IMO Res A.1118 (30) 46 CFR 126.140(f) NVIC 01-89 Encl.1/2.a(7)

15. Review Classification Society Document/Certificates

- Verify validity SOLAS 14 I/6 NVIC 02-95
- Verify endorsements (notations) SOLAS 14 I/6 NVIC 02-95

16. Review International Anti-Fouling System (IAFS) certificate with Record of Anti-Fouling System

- Verify vessel particulars IMO Res MEPC.195(61) 4
- Verify COI has Anti-Fouling endorsement or, if not required, IAFS Certificates MSM I/IB.3.J
- Verify identification of applied Anti-Fouling System AFS Articles 3 & 4 AFS Annex 1-3
- Verify vessel particulars on Record of Anti-Fouling Systems IMO Res MEPC.195(61) 4.1 MSM I/IB.3.J
- Verify Anti-Fouling Systems details provided IMO Res MEPC.195(61) 4.2 & 5
- Verify that no change in Anti-Fouling System has occurred since issuance of IAFS Certificates IMO Res MEPC.195(61) 5.2 MSM I/IB.3.J

17. Review Cargo Ship Safety Construction Certificate (CSSCC)

- Verify vessel particulars SOLAS 14 I/15
- Verify ship type is accurate SOLAS 14 I/12(a)(ii)
- Verify presence of previous two dry dock examinations and endorsements SOLAS 14 I/10(a)(v)
- Verify any extension, renewal or change in anniversary date endorsements SOLAS 14 I/14

## Internal Structural Exam

- 162. Verify confined spaces are safe for entry
  - Review Marine Chemist Certificate 29 CFR 1915.12(f) CIM 5100.47A 13.B.3
  - Verify Competent Person has maintained Marine Chemist Certificate 29 CFR 1915.15 CIM 5100.47A 13.B.8
  - Verify no changes to vessel's condition 29 CFR 1915.15(b)
  - Verify forced ventilation is provided 29 CFR 1915.13(b)(3)
  - Verify condition of space access point 29 CFR 1915.76

- 163. Inspect internal structures
  - Examine internal structures 46 CFR 126.140(c) 46 CFR 125.140 & 42.09-30
  - Examine coamings, closures and other fittings 46 CFR 42.09-25(b)(2) MSM I/IB.3.B
  - Verify wastage discovered is within acceptable limits NVIC 07-68 III(C) ABS 7-A-4/27



158. Inspect sea valve(s)
- Determine which are due for examination
  - Verify quantity and type
  - Verify that all sea valves are identified and are opened for examination
  - Examine external/internal components
- 46 CFR 126.470  
46 CFR 61.20-5(b)  
46 CFR 125.140  
46 CFR 42.15-60(e)  
46 CFR 42.15-60(c)  
46 CFR 56.50-95
- 46 CFR 61.20-5(b)  
46 CFR 42.09-25(b)(4)
159. Inspect non-propulsion thruster(s)
- Examine propeller
  - Examine thruster tunnel
  - Verify shaft seal or packing gland in place
- 46 CFR 128.110 & 58.01-5  
ABS 7-4-1/1 & 7-9-6/1.3  
46 CFR 125.140 & 127.210  
46 CFR 42.09-30(b)  
ABS 7-4-1/1 & 7-9-6/1.3
160. Determine if vessel qualifies to participate in Underwater Survey Program (UWILD)
- Review application
  - Examine condition of hull and protection system
  - Verify reference points
  - Verify hinged gratings are installed on sea chest(s)
  - Verify means for taking shaft-bearing and rudder-bearing clearances
  - Review hull gauging report
  - Review reference video
  - Forward application with OCMI's recommendation
- 46 CFR 126.140(f)  
NVIC 01-89  
NVIC 01-89 Encl. 1/1.a  
46 CFR 126.140(f)(3)  
NVIC 01-89 Encl. 1/1.b  
46 CFR 126.140(f)(4)  
NVIC 01-89 Encl. 1/1.c  
46 CFR 126.140(f)(5)  
46 CFR 126.140 (g)(2)  
NVIC 01-89 Encl. 1/3  
NVIC 01-89 Encl. 1/1.d  
MSM II/B.9.K.7  
MSM II/G.2.V.6.a
- 46 CFR 126.140(f)  
NVIC 01-89 Encl. 1/2.a
161. Inspect hull during an underwater survey
- Review vessel's application for (UWILD) drydocking examination
- 46 CFR 126.140(f)  
NVIC 01-89 Encl. 1/2.a
18. Review Cargo Ship Safety Equipment Certificate (CSSEC) & Form E (Record of Equipment)
- Verify vessel particulars
  - Verify ship type is accurate
  - Verify alternate design or arrangement (fire safety)
  - Verify if an exemption certificate has been issued
  - Verify annual, intermediate, renewal or hull inspection extension endorsements
  - Verify record of equipment matches issued COI for quantities of life-saving appliances
  - Verify record of equipment accurately captures navigational systems and equipment installation
- SOLAS 14 I/12(a)(iii)  
SOLAS 14 I/15  
SOLAS 14 I/12(a)(iii)  
SOLAS 14 II-2/17  
SOLAS 14 I/4  
SOLAS 14 I/10  
MSM II/A.3.H  
SOLAS 14 I/12(a)(iii)  
SOLAS 14 I/12(a)(iii)  
SOLAS 14 V/19
19. Review Cargo Ship Safety Radio Certificate (CSSRC) & Form R (Record of Equipment) (when applicable)
- Verify presence
  - Verify validity
  - Verify vessel particulars
  - Verify proper Sea Area identified
- 46 CFR 2.01-25(a)(4)  
SOLAS 14 I/9 & 12(4)  
SOLAS 14 I/9(a)  
SOLAS 14 I/14  
SOLAS 14 I/9(a)  
SOLAS 14 IV/6
20. Review International Ships Security Certificate (ISSC) & Continuous Synopsis Record (CSR)
- Verify vessel particulars
  - Verify Company name and address match International Safety Management documents
  - Verify ISSC endorsement and type with date (initial, renewal, intermediate & extension).
  - Verify CSR is present and valid
  - Verify CSR information matches ISSC
- SOLAS 14 XI-1/5.5.2  
ISPS Code A/19.2.4  
SOLAS 14 XI-1/5.3  
ISPS Code A/19  
ISPS Code A/19.1.1  
SOLAS 14 XI-1/5.1  
SOLAS 14 XI-1/5.3  
SOLAS 14 XI-1/5.3

21. Review International Oil Pollution Prevention Certificate (IOPP) and Form A (Supplement)
- Verify vessel particulates MARPOL I/9
  - Verify vessel type is accurate MARPOL I/2.1-2.4  
MARPOL I/9
  - Verify annual, intermediate, extension renewal, or change in anniversary date 33 CFR 151.17  
MARPOL I/6
  - Verify record of construction and equipment 33 CFR 151.19(b)(4)  
MARPOL I/9
  - Verify control requirements for machinery bilge and fuel oil tanks identified MARPOL I/14  
MARPOL I/16
  - Verify retention and disposal requirements for oily bilge water holding tanks MARPOL I/12
  - Verify standard discharge connection requirement 33 CFR 155.430  
MARPOL I/13
22. Review International Air Pollution Prevention Certificate (IAPP) and Supplement Record of Construction and Equipment
- Verify vessel particulates MARPOL VI/8 & App I
  - Verify annual, intermediate, renewal, repair and extension endorsements and/or change in anniversary date MARPOL VI/5  
MARPOL VI/6
  - Verify ozone depleting substances identified MARPOL VI/12
  - Verify Nitrogen Oxide emission sources identified 40 CFR 1043.10  
MARPOL VI/13
  - Verify Sulphur Oxide (fuel oil) requirements identified 40 CFR 1043.10  
MARPOL VI/14
  - Verify incinerator installation identified 40 CFR 1043.10  
MARPOL VI/16
  - Verify validity of alternatives or equivalents MARPOL VI/4
23. Review Engine International Air Pollution Prevention (EIAPP) Certificate
- Verify applicability MARPOL VII/13.1.1-1.3  
CG-543 Policy Ltr 09-01
  - Verify presence MARPOL VII/8  
CG-543 Policy Ltr 09-01
- Visually examine shaft 46 CFR 61.20-18(a) & .20-23(a)  
ABS 7-5-1/1 & 3
- Witness non-destructive testing (NDT) of shaft's taper section and keyway 46 CFR 61.20-18(b)  
ABS 7-5-1/1
- Verify condition and wear/tear of strut bearing(s) MSM II/B.3.D.10
- Verify condition of blade hardware on Controllable Pitch Propeller (CPP) ABS 7-5-1/3
155. Inspect rudder installation
- Verify type of assembly installed 46 CFR 128.110 & 58.01-5  
ABS 3-2-14/1
  - Examine assembly 46 CFR 126.470 & 58.01-5  
ABS 7-4-1/1
  - Verify bearing clearance(s) ABS 7-4-1/1
  - Verify condition of pintle(s), gudgeon(s), bushing(s), pintle nut(s), and locking device(s) ABS 7-4-1/1  
MSM II/B.3.E.2
  - Verify condition of pintle by nondestructive test (NDT) MSM II/B.3.E.2
  - Verify tightness of rudder assembly by pneumatic test ABS 7-4-1/1
156. Inspect hull appendages
- Examine condition and structural integrity of bilge keel 46 CFR 126.470  
46 CFR 58.01-5
  - Examine condition of coolers (keel or grid) 46 CFR 128.420-.430
  - Examine condition of transducers and other similar appendages ABS 7-4-1/1
157. Inspect anchor chain(s) and chain locker
- Verify chain is marked 46 CFR 130.240  
ABS 2-2-2/21
  - Examine length of chain ABS 7-3-2/5.1.4
  - Examine chain locker NVIC 07-68 III(C)  
ABS 7-A-4/27
  - Examine chain's pad eye (holdfast) ABS 7-3-2/5.1.4
  - Examine hawse pipe ABS 7-3-2/5.1.4

## Hull Inspection

- |   |  |  |
|---|--|--|
| <p><input type="checkbox"/> 151. Inspect hull</p> <ul style="list-style-type: none"> <li>• Examine for wastage, defect(s), and damage</li> <li>• Examine stress areas (stringer plate, sheer plate, etc)</li> <li>• Examine seachest(s), strainers and emergency bilge suction and overboard discharges for wastage, defect(s), and damage</li> <li>• Verify condition of drydock (bottom) plugs</li> <li>• Verify wastage/corrosion is within limits</li> <li>• Ensure unsatisfactory condition(s) are resolved</li> </ul> | <p>46 CFR 126.140(a)<br/>46 CFR 125.140<br/>NVIC 07-68 IV(B)<br/>MSM II/B.3.B<br/>46 CFR 61.20-5<br/>NVIC 07-68 II(A)<br/><br/>NVIC 07-68 II(A)<br/>MSM II/B.3.B<br/>NVIC 07-68 III(C)<br/>ABS 7-A-4/27<br/>46 CFR 42.09-45<br/>MSM II/B.3.B</p> | <p>MARPOL VI/9<br/>CG-543 Policy Ltr 09-01<br/>MARPOL VI/13.1.1<br/><br/>CG-543 Policy Ltr 09-01 5.b.i<br/><br/>CG-543 Policy Ltr 09-01 5.b.ii</p>   |
| <p><input type="checkbox"/> 152. Inspect hull markings</p> <ul style="list-style-type: none"> <li>• Verify placement of hull markings</li> <li>• Verify markings are permanently affixed</li> <li>• Verify markings are of contrasting colors</li> </ul>  | <p>46 CFR 131.210-.230<br/>46 CFR 67.120 &amp; 69.177<br/>46 CFR 131.210-.230<br/>46 CFR 67.121<br/>46 CFR 131.220(f)<br/>46 CFR 42.13-40</p>  | <p>24. Verify compliance with Vessel General Permit (VGP)</p> <ul style="list-style-type: none"> <li>• Verify Notice of Intent (NOI) has been submitted</li> <li>• Verify compliance with ballast water record keeping requirements</li> <li>• Verify noncompliance &amp; reportable quantity reports have been submitted</li> </ul>   |
| <p><input type="checkbox"/> 153. Inspect main propulsion propeller(s)</p> <ul style="list-style-type: none"> <li>• Examine condition</li> <li>• Verify locking nut is installed and secured</li> <li>• Witness NDT of propeller coupling bolts and flange radius</li> </ul>   | <p>46 CFR 126.470<br/>46 CFR 61.20-5(a)<br/>46 CFR 58.01-5<br/>ABS 7-4-1/1<br/>46 CFR 61.20-18(c)<br/>ABS 7-5-1/3.5</p>  | <p>25. Review Certificate of Financial Responsibility (COFR) (when applicable)</p> <ul style="list-style-type: none"> <li>• Verify applicability</li> <li>• Verify validity</li> <li>• Verify contents</li> </ul>  |
| <p><input type="checkbox"/> 154. Inspect tailshaft(s) and stern bearing(s)</p> <ul style="list-style-type: none"> <li>• Determine if tailshaft(s) need to be drawn</li> <li>• Verify bearing clearance, inboard seal assembly and record of lube oil analysis are within limits</li> </ul>  | <p>46 CFR 126.470 &amp; 61.20-17<br/>46 CFR 58.01-5 &amp; ABS 7-2-1/13<br/>46 CFR 61.20-17(e) &amp; 20-23(c)<br/>ABS 7-5-1/1 &amp; 3</p>   | <p>26. Review Tonnage Certificate (International (ITC) / Domestic)</p> <ul style="list-style-type: none"> <li>• Verify validity</li> <li>• Verify correct measurement system</li> <li>• Verify vessel particulars remain valid</li> </ul> <p>27. Review Federal Communications Commission Bridge-to-Bridge Certificate (when applicable)</p> <ul style="list-style-type: none"> <li>• Verify presence</li> <li>• Verify validity</li> <li>• Verify contents</li> </ul> |

- 28. Review Federal Communications Commission Station License
    - Verify presence 47 CFR 80.13
    - Verify validity 47 CFR 80.25
    - Verify contents 47 CFR 80.99  
47 CFR 80.405
    - Verify that other classes of onboard equipment are authorized for operation 47 CFR 80.17
  - 29. Review Federal Communications Commission Safety Radiotelephony Certificate
    - Verify presence 47 CFR 80.59 (a)(2)
    - Verify validity 47 CFR 80.59
    - Verify contents 47 CFR 80.59
  - 30. Review International Energy Efficiency (IEE) Certificate and Record of Construction
    - Verify applicability MARPOL VI/6.4  
CG-CVC Policy Ltr 13-02
    - Verify presence MARPOL VI/6.4  
CG-CVC Policy Ltr 13-02
    - Verify duration and validity MARPOL VI/9.10-.11  
CG-CVC Policy Ltr 13-02
    - Verify vessel particulars MARPOL VI/Appendix VIII
    - Verify Energy Efficiency Design Index requirements MARPOL VI/20
    - Verify Ship Energy Efficiency Management Plan is identified CG-CVC Policy Ltr 13-02 7.a
    - Verify Technical File requirements are met MARPOL VI/20.1.3  
CG-CVC Policy Ltr 13-02 8.b
  - 31. Review Statement of Voluntary Compliance, MARPOL Annex IV (Sewage)
    - Verify vessel particulars NVIC 01-09 Encl 3
    - Verify system's compliance type 33 CFR 159.51-131  
NVIC 01-09 Encl 1
    - Verify Discharge Rate (draft & speed chart) identified 33 CFR 159.57  
NVIC 01-09
    - Verify endorsements (extension or renewal) NVIC 01-09 Encl 3
- 
- Evaluate crew's proficiency in handling and maneuvering the rescue boat (when applicable) 46 CFR 131.530(b)(7)  
SOLAS 14 III/19.3.3.6
  - Witness recovery of rescue boat 46 CFR 133.160(d)-(f)
149. Evaluate Abandon Ship Drill
- Witness drill 46 CFR 131.530(b)  
SOLAS 14 III/19.3.3
  - Verify general alarm and public address announcements 46 CFR 131.530(b)(3)(i)  
SOLAS 14 III/19.3.3.1.1
  - Verify crew's familiarity with assigned duties 46 CFR 131.530(b)(3)(iii)  
SOLAS 14 III/19.3.3.1.2
  - Evaluate crew and offshore workers are suitably dressed and proficient in donning lifejackets and/or immersion suits 46 CFR 131.530(b)(3)(iv) & (v)  
SOLAS 14 III/19.3.3.1.3 & .4
  - Witness operation of davit launching lifeboat or rescue boat 46 CFR 131.530(b)(3)(vi)  
SOLAS 14 III/19.3.3.1.5
  - Witness operation of lifeboat or rescue boat engine 46 CFR 131.530(b)(3)(vii)  
SOLAS 14 III/19.3.3.1.6
  - Witness operation of davit launching liferafts 46 CFR 131.530(b)(3)(viii)  
SOLAS 14 III/19.3.3.1.7
150. Evaluate Security Drill
- Review procedures contained in security plan 33 CFR 104.230(b)(2)  
ISPS Code A/9.4.4
  - Witness drill 33 CFR 104.230(a)  
SOLAS 14 XI-2/4.2
  - Evaluate crew's response 33 CFR 104.220  
ISPS Code A/13.3
  - Verify control and communication 33 CFR 104.245  
ISPS Code A/7.2.7
  - Verify implementation of plan procedures 33 CFR 104.230(a)  
ISPS Code A/9.4

# Logs & Manual

- Verify materiel condition  
49 CFR 176.340  
49 CFR 173.32 & .241(c)
- 145. Verify compliance of packaged hazardous materials
  - Verify materiel is packaged, marked and labeled  
46 CFR 125.130  
49 CFR 176.3
  - Verify materiel is stored and segregated  
49 CFR 176.63
- 146. Inspect remotely-operated valves and controls
  - Verify remote valve control(s) are fitted with name plates  
46 CFR 56.50-1(g)(2)(i)
  - Verify valve operates freely  
46 CFR 126.430
  - Verify remote control mechanisms function properly  
46 CFR 126.430
  - Verify power-operated valve(s) can be operated from all control stations  
46 CFR 128.240  
46 CFR 56.50-60(d)(3)

## Emergency Drills

- 147. Evaluate Fire Drill
  - Witness drill  
46 CFR 131.535  
SOLAS 14 III/19.2.1
  - Verify crew's ability to organize  
46 CFR 131.535(c)  
SOLAS 14 III/19.3.4.2.1
  - Verify crew's familiarity with their duties and use of equipment  
46 CFR 131.535(c)(5)  
SOLAS 14 III/19.3.4.2.1
  - Verify firefighting gear is compatible and complete  
46 CFR 131.535(c)(5)  
SOLAS 14 III/19.3.4.2.3
  - Verify operation of alarms  
46 CFR 131.535(c)(1)  
SOLAS 14 III/19.3.4.2.4
  - Verify effective communication with master  
46 CFR 131.535(c)(1)  
SOLAS 14 III/19.3.4.2.4
- 148. Evaluate Man Overboard Drill
  - Verify vessel's ability to recover a helpless person  
46 CFR 133.135(c)(1)  
46 CFR 131.330(b)
  - Witness launching of rescue boat (when applicable)  
46 CFR 131.530(b)(7)  
46 CFR 133.160(c)

- 32. Verify compliance with STCW watchkeeping standards
  - Review watchstanding schedules  
STCW VIII  
STCW A-VIII/2
  - Verify compliance with standing orders and other special instructions  
STCW A-VIII/2
- 33. Review logbook
  - Verify log entries  
46 CFR 131.610 & .620(b)  
33 CFR 164.25
  - Verify EPIRB tests are logged  
46 CFR 131.565(b)  
47 CFR 80.1099(f)(2)
  - Verify sanitary inspections are logged  
46 CFR 131.515
  - Verify drills are logged  
46 CFR 131.530(e)  
46 CFR 131.535(e)
  - Verify casualties are logged  
46 CFR 131.110
  - Verify applicable signatures  
46 CFR 4.05-15  
46 USC 11302
- 34. Review radio logs
  - Determine applicability of requirements  
46 CFR 130.210  
47 CFR 80.409
  - Verify vessel's information marked on log  
47 CFR 80.409(a)(3)
  - Verify required entries are documented  
47 CFR 80.409(f)  
47 CFR 80.1075 & 1099(f)(2)
  - Verify corrections are documented  
47 CFR 80.409(a)(2)
- 35. Review lifesaving equipment maintenance record
  - Review liferaft records  
46 CFR 131.580  
46 CFR 131.545
  - Review lifeboat records  
46 CFR 131.545  
SOLAS 14 III/20
  - Review rescue boat records  
46 CFR 131.545  
SOLAS 14 III/20
  - Review records for davits, falls & winches  
46 CFR 131.550  
46 CFR 131.570

- 36. Review abandon ship and fire fighting training manual
  - Verify location  
46 CFR 131.530 & .535  
SOLAS 14 II-2/15.2.3
  - Verify contents  
46 CFR 131.530 & .535  
SOLAS 14 II-2/15.2.3.3
- 37. Review cargo securing manual
  - Verify presence  
SOLAS 14 VI/5.6  
NVIC 10-97
  - Review contents  
SOLAS 14 VI/5.6  
IMO MSC.1/Circ. 1353, Res A.714(17) as amended
  - Verify approval  
IMO Res A.714(17) as amended
- 38. Examine Waste/Garbage Management Plan
  - Verify validity  
33 CFR 151.57  
MARPOL V/10.2
  - Verify contents  
33 CFR 151.51-.77  
MARPOL V/10.2
- 39. Examine Garbage Record Book
  - Verify validity  
33 CFR 151.55  
MARPOL V/10.3
  - Verify contents  
33 CFR 151.55  
MARPOL V/10.3
- 40. Review Oil Record Book (ORB)
  - Verify edition of ORB  
33 CFR 151.25(b)  
IMO MEPC.187(59)
  - Verify required signatures  
33 CFR 151.25(h)
  - Verify required entries  
46 CFR 184.702  
33 CFR 151.25(h)  
MARPOL I/7  
MARPOL I/Appendix II
  - Compare overboard discharge rate entries with filtering equipment data plate or supplement to IOPP certificate  
46 CFR 125.110(d)  
46 CFR 125.130  
49 CFR 172.101  
46 CFR 132.370(a)  
46 CFR 98.30-37  
46 CFR 125.110  
46 CFR 98.31-10  
46 CFR 125.110(d)  
46 CFR 132.370
- 41. Examine pedestal mounting
  - Examine hydraulic fittings and hoses  
API RP 2D
  - Verify boom angle indicator functions  
API RP 2D
  - Verify and Examine Crane Operator designation letter(s)  
46 CFR 109.527(a)
- 142. Witness 5-year load test on crane(s)
  - Verify load test weight  
46 CFR 126.130  
46 CFR 107.260
  - Verify third party certification or calibration of dynamometer (load cell)  
46 CFR 107.259  
API RP 2D
  - Verify brake(s) hold with suspended load  
API RP 2D
  - Verify condition of hook  
API RP 2D

## Cargo Systems

- 143. Inspect liquid cargo transfer system(s)
  - Examine materiel condition of pump(s), manifold and piping  
46 CFR 128.110  
46 CFR 56.50-60
  - Verify electrical equipment is appropriate for application and location  
46 CFR 129.520
  - Verify pump(s) and controls are operational  
46 CFR 129.110  
46 CFR 111.70
  - Verify operation of remote shutdown(s)  
46 CFR 131.935  
46 CFR 129.540
- 144. Examine portable tank(s)
  - Verify tank(s) are approved  
46 CFR 125.110(d)
  - Verify stowed and segregated  
46 CFR 125.130  
49 CFR 172.101
  - Verify additional fire fighting equipment  
46 CFR 132.370(a)  
46 CFR 98.30-37
  - Verify fill and discharge compliance  
46 CFR 125.110  
46 CFR 98.31-10
  - Verify secured in accordance with vessel's cargo securing manual  
46 CFR 125.110(d)  
46 CFR 132.370

- Examine condition of anchoring equipment
  - Verify anchors are deployable
- 46 CFR 130.240  
ABS 7-3-2/1.1.7
- 46 CFR 130.240  
ABS 7-3-2/1.1.7
137. Inspect mooring system and equipment
- Verify condition of bits, cleats, fairleads and winches
  - Verify mooring lines/wires sizes and condition
- 46 CFR 127.210 & 130.250  
SOLAS 14 II-1/3-8.2
- 46 CFR 130.250  
46 CFR 184.300
138. Inspect air ports, dead covers and natural vent openings
- Verify covers are readily available and operational
  - Examine condition
  - Examine covers for proper fit and seal
- 46 CFR 127.250  
46 CFR 125.140
- 46 CFR 126.430  
46 CFR 42.15
- 46 CFR 42.15  
ICLL I/23
139. Inspect tank vents
- Verify condition and location
  - Verify installation and condition of flame screens (when applicable)
  - Verify permanently attached means for closing tank vents
  - Verify tank vents are fitted with insect screens
- 46 CFR 128.110  
46 CFR 56.50-85
- 46 CFR 56.50-85(a)(8)  
46 CFR 128.450(b)
- 46 CFR 56.50-85(a)(7)
- 21 CFR 1250.82(c)
140. Inspect rails and guards
- Verify rail heights and courses
  - Verify storm rails
- 46 CFR 127.310 - 330  
46 CFR 42.15-75
- 46 CFR 127.320  
46 CFR 42.15-75
141. Examine cranes
- Verify operation of controls, limits and stops
  - Verify posting of load, rigger charts and control markings
  - Verify condition of wire rope, hooks, sheaves and blocks
- 46 CFR 107.259  
46 CFR 126.130
- 46 CFR 109.525  
API RP 2D  
API RP 2D

41. Review Shipboard Oil Pollution Emergency Plan (SOPEP)
- Verify applicability
  - Verify approval
  - Verify annual review
  - Verify plan organization
  - Verify combination plan
- 46 CFR 131.935  
33 CFR 151.09
- 33 CFR 151.27  
MARPOL I/37.1
- 33 CFR 151.28(a)  
33 CFR 151.28(d)  
33 CFR 151.26(b)(8)  
MARPOL I/37.3
42. Review Non-Tank Vessel Response Plan (NTRVP)
- Verify applicability
  - Verify approval
  - Verify annual reviews and information is accurate
- 46 CFR 131.935  
33 USC 1321(a)(26)
- 33 USC 1321(j)(5)(F)(i)  
33 CFR 155.5065
- 33 USC 1321(j)(5)(D)  
33 CFR 155.5070
43. Examine ballast water management documents
- Verify plan
  - Verify reporting
  - Verify records
- 33 CFR 151.2050(g)  
NVIC 07-04 Ch-1
- 33 CFR 151.2060  
NVIC 01-18
- 33 CFR 151.2070  
NVIC 01-18
44. Verify oil and hazardous liquid transfer procedures
- Verify presence
  - Verify Person in Charge is identified
  - Verify identity of applicable cargoes
  - Verify contents
- 46 CFR 131.935  
33 CFR 155.720
- 33 CFR 155.750(a)(4)
- 33 CFR 155.750(a)(1)  
33 CFR 155.750
45. Review Automation Test Procedures and Operations Manual
- Verify approval
  - Verify accuracy
  - Review annual tests
- 46 CFR 130.480  
46 CFR 127.110(f)
- 46 CFR 130.480  
46 CFR 130.480  
46 CFR 130.480



- 46. Examine Crane Record Book
  - Verify presence 46 CFR 126.130  
46 CFR 109.437
  - Verify contents 46 CFR 126.130  
46 CFR 109.437
- 47. Review Shipboard Marine Pollution Emergency Plans (SMPEP)
  - Verify presence MARPOL II/17.1
  - Verify validity MARPOL II/17.1
  - Verify combination plan MARPOL II/17.3
- 48. Review Procedures and Arrangements Manual (P&A)
  - Verify presence MARPOL II/14.1
  - Verify contents MARPOL II/14.2
- 49. Review Vessel Security Plan (VSP) or Alternate Security Plan (ASP)
  - Verify presence of approval letter for plan type 33 CFR 104.105, .120 & .140  
33 CFR 101.120(b) & (c)
  - Verify participation with sponsoring organizations NVIC 04-03 Encl 6, 5, C.
  - Verify plan is secured 33 CFR 104.400(c)  
ISPS Code A/9.7
  - Examine contents 33 CFR 104.405
  - Verify amendment(s) 33 CFR 104.415(a)
  - Verify implementation 33 CFR 101.120(b)(2)  
33 CFR 104.140(c) & 400(a)
  - Verify inspection(s)/deficiency(s) documentation NVIC 10-04 Part 1  
MSM II A.2.
- 50. Examine security records
  - Verify record(s) of security training 33 CFR 104.235(b)(1)  
SOLAS 14 XI-2/4.2
  - Verify presence of Declarations of Security (DoS) 33 CFR 104.255 & .235(b)(7)  
ISPS Code A/5.7
  - Verify record(s) of security drills 33 CFR 104.235(b)(2)  
ISPS Code A/10.1.1

## Security

- Verify locations of pollution/MARPOL placards 33 CFR 155.450
  - Verify condition of hose and manifold connections 33 CFR 156.170
  - Verify condition and size of containment (when applicable) 33 CFR 155.320  
MSM II/B.6.D.6
  - Verify containment closures 33 CFR 156.120(n)  
33 CFR 156.120(o)
  - Verify sufficient lighting 33 CFR 155.790
  - Verify signed copies of Declaration of Inspection are present 33 CFR 156.150(f)  
MSM II/B.6.E.6
134. Conduct an IOPP (MARPOL Annex I) survey
- Verify applicability 46 CFR 131.935  
33 CFR 151.03
  - Verify standard discharge connection(s) 33 CFR 155.430  
MARPOL I/13
  - Verify oil record book entries 33 CFR 151.25  
MARPOL I/17
  - Witness operational test of equipment 33 CFR 155.330-.380  
MARPOL I/14
  - Verify piping and tank configuration 33 CFR 155.410-.430  
MARPOL I/12
  - Confirm equipment installation matches international certificate IOPP Certificate Supplement  
IMO Res A.1120(30)

## Topside Equipment

135. Examine freeing ports and scuppers
- Verify no modifications 46 CFR 127.230  
46 CFR 174.215
  - Verify unobstructed 46 CFR 42.15-60  
46 CFR 42.15-70
136. Examine ground tackle and related equipment
- Determine size of anchor(s) required 46 CFR 130.240  
ABS 3-5-1
  - Verify operation of windlass ABS 7-3-2/1.1.7
  - Verify operation of capstan 46 CFR 130.240  
ABS 7-3-2/1.1.7



130. Conduct garbage handling (MARPOL Annex V) survey
- Verify plan compliance  
46 CFR 131.935  
33 CFR 151.51 & .57
  - Verify handling of plastics  
33 CFR 151.55  
MARPOL V/10.3
  - Verify placards posted  
33 CFR 151.59  
MARPOL V/10.1
131. Conduct an International Air Pollution Prevention (IAPP MARPOL Annex VI) survey
- Verify equipment/systems containing Chloro Fluoro Carbons (CFCs), Hydro CFCs and Volatile Organic Compounds (VOCs) are on certificate  
MARPOL VI/12
  - Verify presence of equipment on certificate and approvals  
MARPOL VI/4  
IMO Res A.1120(30)
  - Verify compliance with Emission Control Area (ECA)  
MARPOL VI/13 & 14  
MARPOL VI/App-VII
  - Review exhaust cleaning systems equivalency documentation  
MARPOL VI/4
  - Review delivery notes  
MARPOL VI/18.5 & App V
  - Verify samples  
MARPOL VI/18.8.1
  - Verify compliance with NOx and SOx  
MARPOL VI/13 & 14  
40 CFR 1043.30
  - Review notification(s) of fuel oil availability and quality  
MARPOL VI/18.2.4
132. Conduct Vessel General Permit (VGP) compliance verification
- Verify discharges are in compliance with VGP  
VGP 2.2.3.2  
VGP 4.3
  - Verify log entries  
VGP 4.1.1.1  
VGP 4.2
133. Inspect pollution prevention equipment
- Determine applicability  
46 CFR 131.935  
MSM I/IB.6.D.1
  - Verify communication between participants in transfer operations  
33 CFR 155.785
  - Verify transfer hoses tested and marked  
33 CFR 155.800  
33 CFR 154.500
51. Examine security equipment
- Verify annual exercise has been conducted  
33 CFR 104.235(b)(2)  
ISPS Code A/10.1.1
  - Verify record(s) of annual audit  
33 CFR 104.235(b)(8)  
ISPS Code A/10.1.6
  - Verify VSA/SSA is reviewed and revalidated when VSP is submitted for reapproval or revisions  
33 CFR 104.310(c)  
NVIC 04-03 Encl (2), 2.C & 2.D
52. Evaluate crew's knowledge of security plan
- Verify location of Ship Security Alert System  
33 CFR 101.310 & 104.297  
SOLAS 14 XI-2/6
  - Verify maintenance records  
33 CFR 104.235(b)(5)  
ISPS Code A/17
  - Verify operation  
33 CFR 104.260(a)  
ISPS Code A/9.4.15 & 18
53. Verify security training & records
- Identify Company Security Officer (CSO)  
33 CFR 104.200(b)(2)  
SOLAS 14 XI-2/4.2
  - Identify Vessel/Ship Security Officer (VSO/SSO)  
33 CFR 104.200(b)(2)  
ISPS Code A/12.1
  - Evaluate VSO's knowledge  
33 CFR 104.215(e)  
ISPS Code A/12.2
  - Evaluate crew's level of knowledge  
33 CFR 104.220  
ISPS Code A/13.3
  - Verify compliance with current Maritime Security (MARSEC) level  
33 CFR 104.240  
33 CFR 104.220(m)
53. Verify security training & records
- Verify all access points are monitored  
33 CFR 104.265(a)  
ISPS A/7.2.2
  - Observe gangway watch control of embarkation of persons and effects  
33 CFR 104.265(a)  
ISPS A/7.2.3
  - Verify security communications  
33 CFR 104.245  
ISPS A/7.2.7
  - Verify security level  
33 CFR 104.240  
ISPS A/7.1
  - Verify gangway watch is familiar with their responsibilities as per security plan  
ISPS A/13.2  
ISPS A/13.3
  - Verify signage  
33 CFR 104.265(f)(3)

## Bridge & Navigation

- 54. Verify operations of internal communication and control systems
  - Witness operation of engine order telegraph 46 CFR 129.110 & .560  
46 CFR 113.35
  - Witness operation of sound powered phones 46 CFR 130.440  
SOLAS 14 III/6.4.1
  - Witness operation of public address system 46 CFR 113.50  
SOLAS 14 III/6.4.2
  - Verify operation of pilothouse control 46 CFR 130.430  
46 CFR 129.540 (b)(1)

- 55. Inspect radar(s)
  - Verify safety precautions are followed Operations Manual
  - Verify operation 46 CFR 130.310  
SOLAS 14 V/19.2
  - Verify operation of Automatic Radar Plotting Aid (ARPA) 33 CFR 164.38  
SOLAS 14 V/19.2
- 56. Inspect magnetic compass
  - Verify illumination 46 CFR 130.340  
33 CFR 164.35(b)
  - Verify presence of deviation table 33 CFR 164.35(c)  
SOLAS 14 V/19.2.1.3
  - Verify presence of spare SOLAS 14 V/19.2.2.1

- 57. Inspect gyrocompass
  - Verify operation 33 CFR 164.35(d)  
SOLAS 14 V/19.2.5
  - Verify location and illumination of repeaters 33 CFR 164.35(e)
  - Verify operation under emergency power SOLAS 14 II-1/43.2.4.2

- 58. Inspect depth sounding/recording equipment
  - Verify sounding equipment is operational 33 CFR 164.35(h)  
SOLAS 14 V/19.2.3.1
  - Verify continuous recording is operational 33 CFR 164.35(i)

- 126. Inspect watertight bulkhead penetrations
  - Verify locations 46 CFR 127.230  
46 CFR 174.190
  - Verify ability to seal 46 CFR 128.230  
46 CFR 56.50-1
  - Verify sealing material approval(s) 46 CFR 56.50-1(a)
- 127. Inspect hull structure
  - Examine for damage, wastage and fractures 46 CFR 126.430  
MSM II/B.1.B.1
  - Verify no unauthorized repairs 46 CFR 126.150

## Pollution Prevention

- 128. Inspect Oily Water Separator (OWS)
  - Verify approval 46 CFR 131.935  
33 CFR 155.380
  - Verify overboard discharge valve is closed 33 CFR 151.10  
MARPOL I/14
  - Witness operation 33 CFR 155.380  
MARPOL I/14 & IMO Res A.1120(30)
  - Verify means to retain oily waste 33 CFR 155.330-.370  
MARPOL I/14.3-.5 & IMO Res A.1120(30)
- 129. Inspect sewage system
  - Verify presence of manufacturer's instructions 33 CFR 159.57
  - Verify operation 46 CFR 131.940  
33 CFR 159.57 & IMO Res A.1120(30)
  - Verify Marine Sanitation Device (MSD) approval 33 CFR 159.7  
MSM II/B6.F.4
  - Verify capacity 33 CFR 159.57(b)(8)
  - Verify piping and wiring 33 CFR 159.97
  - Verify instructions and warning placard posted 33 CFR 159.59

## Structural & Watertight Integrity

- 124. Inspect hatches and Class-1 watertight doors
  - Verify condition of knife edges  
46 CFR 125.140 & 127.230  
46 CFR 42.15-10
  - Verify condition of gasket material  
MSM II/B.1.E.5
  - Verify watertight integrity between gasket and knife edge  
46 CFR 174.210  
46 CFR 170.270
  - Verify condition and operation of hinges and dogging devices  
MSM II/B.1.E.5
  - Verify design , operation, installation and testing of quick-acting closing-device  
46 CFR 174.210(c)(1)  
46 CFR 170.270(a),(b) & (e)
  - Verify operation of indicator lights at the control station  
46 CFR 174.210(c)(3)
  - Verify markings  
46 CFR 174.210(d)  
46 CFR 131.893
  - Verify doors are installed in permissible locations  
46 CFR 170.255
- 125. Inspect Class 2 & 3 watertight doors
  - Verify operation of local controls  
46 CFR 127.230  
46 CFR 170.270(c)(2)
  - Verify operation of remote controls  
ASTM F1197/7.1
  - Verify condition of replaceable interface between door and frame assembly  
46 CFR 170.270(c)(1)  
ASTM F1196/6.3
  - Verify operation of alarms  
ASTM F1197/11.5
  - Verify closing times are in compliance  
ASTM F1197/11.2 & .4
  - Verify markings  
46 CFR 131.893  
ASTM F1196/11.1
  - Verify watertight integrity  
ASTM F1196/S1
  - Verify operation of doors under reserve power  
46 CFR 170.270(c)(3)  
ASTM F1197/S3
  - Verify watertight doors are installed in permissible locations  
46 CFR 170.260  
46 CFR 170.265

- 59. Inspect electronic position-fixing device (satellite navigation (GPS) receiver)
  - Verify equipment is operational  
46 CFR 130.320  
33 CFR 164.41(a)
  - Witness functional test  
Operations manual
- 60. Verify operation of Automated Identification System (AIS)
  - Verify AIS information (vessel, type, IMO number, Maritime Mobile Service Identity)  
33 CFR 164.46  
SOLAS 14 V/19.2.4.5
  - Verify operation  
SOLAS 14 V/19.2.4.5  
Operations Manual
  - Verify operation under emergency power  
SOLAS 14 Il-1/43.2.4.2
- 61. Verify Long Range Identification and Tracking Information (LRIT) Equipment
  - Verify operation  
33 CFR 169.215  
33 CFR 169.230
  - Review conformance test report  
IMO MSC.1/Circ. 1307
- 62. Inspect Global Maritime Distress and Safety System (GMDSS) equipment
  - Verify Station ID numbers on applicable equipment  
47 CFR 80.1083  
SOLAS 14 IV/6.2.5
  - Review logs for tests and notations  
47 CFR 80.1075  
SOLAS 14 IV/17
  - Verify equipment for operation areas  
47 CFR 80.1083-.1095  
SOLAS 14 IV/6.1
  - Verify operation of VHF Digital Selective Calling (DSC) radio  
47 CFR 80.1085(a)(1)  
SOLAS 14 IV/7.1.1
  - Verify emergency source of power is provided  
47 CFR 80.1099(b)  
SOLAS 14 IV/13.2
  - Verify presence of manuals, tools, spare parts and test equipment  
47 CFR 80.1105  
SOLAS 14 IV/15
  - Verify compliance with maintenance method(s)  
47 CFR 80.1105(c)  
SOLAS 14 IV/15
- 63. Inspect Radiotelephone equipment
  - Verify installation(s)  
46 CFR 130.210  
47 CFR 80.1003
  - Verify equipment for operational areas  
47 CFR 80.1015

<ul style="list-style-type: none"> <li>• Verify presence of Operation Manual</li> </ul>	47 CFR 80.1011-1013	
<input type="checkbox"/> 64. Inspect steering system controls at Operating Station	<ul style="list-style-type: none"> <li>• Verify steering gear instructions, diagrams &amp; markings</li> <li>• Witness operation of rudder angle indicator and illumination</li> <li>• Verify operation of steering gear alarms</li> <li>• Verify operation in follow-up and non follow-up mode</li> </ul>	<ul style="list-style-type: none"> <li>• Verify lighting</li> <li>• Examine condition and installation of fixtures</li> </ul>
<input type="checkbox"/> 65. Inspect navigation aids	<ul style="list-style-type: none"> <li>• Verify operation of navigation and anchor lights</li> <li>• Examine dayshapes</li> <li>• Examine daylight signaling lamp</li> <li>• Review Certificate of Alternate Compliance</li> </ul>	<ul style="list-style-type: none"> <li>• Verify location and drip proof</li> <li>• Examine condition and installation</li> <li>• Verify blanks are installed</li> <li>• Verify circuit directory</li> </ul>
<input type="checkbox"/> 66. Inspect sound signaling devices	<ul style="list-style-type: none"> <li>• Witness operation of ship's whistle</li> <li>• Witness operation of ship's bell</li> <li>• Witness operation of ship's gong</li> </ul>	<ul style="list-style-type: none"> <li>• Inspect electrical cables and fixtures</li> </ul>
<input type="checkbox"/> 67. Examine charts and publications	<ul style="list-style-type: none"> <li>• Verify presence of current, applicable and corrected charts and/or Electronic Chart Display &amp; Information System (ECDIS)</li> <li>• Verify presence of current and applicable Tide Tables</li> <li>• Verify presence of current and applicable Coast Guard Light List</li> <li>• Verify presence of current and applicable Tidal Current Tables</li> </ul>	<ul style="list-style-type: none"> <li>• Verify no hazardous conditions exist</li> <li>• Verify condition of outlets</li> </ul>
	<ul style="list-style-type: none"> <li>• Verify presence of current, applicable and corrected charts and/or Electronic Chart Display &amp; Information System (ECDIS)</li> <li>• Verify presence of current and applicable Tide Tables</li> <li>• Verify presence of current and applicable Coast Guard Light List</li> <li>• Verify presence of current and applicable Tidal Current Tables</li> </ul>	<ul style="list-style-type: none"> <li>• Inspect components installed in designated hazardous locations</li> <li>• Verify hazardous location(s)</li> <li>• Verify fixtures for hazardous location(s)</li> <li>• Verify integrity of system(s)</li> </ul>

- Examine condition  
46 CFR 126.470  
46 CFR 61.20-3(a)  
46 CFR 127.330
  - Verify installation of machinery covers and guards
  - Verify operation of alarm(s)
  - Verify gauges  
46 CFR 112.50-1(h) or (i)  
46 CFR 129.320(c)  
ABS 4-2-1/7.17
  - Verify marking and operation of remote fuel shutoff valve(s)  
46 CFR 128.110  
46 CFR 56.50-60(d)
  - Verify set point and operation of over speed shut-down  
46 CFR 129.110  
46 CFR 111.12-1(b) & 112.50-1(g)
116. Inspect emergency generator(s) and prime mover(s)
- Verify set point and operation of lube oil shut-down  
46 CFR 129.110  
46 CFR 111.12-1(c)
  - Verify generator nameplates attached  
46 CFR 129.320(d)
117. Inspect battery installation
- Determine size  
46 CFR 129.353
  - Verify ventilation  
46 CFR 129.356  
46 CFR 111.15-10
  - Verify secured  
46 CFR 129.350 (b)
  - Verify space for maintenance and removal  
46 CFR 129.350(c)
  - Verify means of charging  
46 CFR 129.350 (f)
  - Verify operation of power ventilation interlock with charger  
46 CFR 111.15-10(b)(4)
  - Verify connections  
46 CFR 129.350 (d)
118. Inspect motor controllers
- Verify installation  
46 CFR 129.110  
46 CFR 111.70-3
  - Verify marking(s)  
46 CFR 129.110  
46 CFR 111.70-3(d)(1)(vi)
  - Verify wiring diagram in enclosure  
46 CFR 129.110  
46 CFR 111.70-3(d)(2)
  - Verify drip-proof/watertight  
46 CFR 129.210
  - Verify low voltage release motor controller for vital systems  
46 CFR 111.70-3(b)

- Verify presence of Inland Navigation Rules  
33 CFR 83.01(g)
- Verify presence of COLREGS  
SOLAS 14 V/27
- Verify presence of current and applicable U.S. Coast Pilot  
33 CFR 164.33  
46 CFR 130.330
- Verify presence of International Code of Signals  
SOLAS 14 V/21.1
- Verify presence and contents of maneuvering fact sheet  
33 CFR 164.35(g)  
MSC.137(76)
- Verify presence of International Aeronautical and Maritime Search and Rescue (IAMSAR) manual  
SOLAS 14 V/21.2

## General Health & Safety

68. Inspect accommodation spaces
- Verify location  
46 CFR 127.270
  - Verify number of berths  
46 CFR 127.280(a)(1)  
46 CFR 127.280(b)
  - Verify spaces are of appropriate size  
46 CFR 127.280(a)(2)(ii)
  - Verify accessibility to escape routes  
46 CFR 127.240
  - Verify ventilation  
46 CFR 127.260
  - Verify sanitary condition  
46 CFR 131.515
69. Inspect means of escape from accommodation, machinery and other spaces
- Verify means of escape  
46 CFR 127.240(a)  
SOLAS 14 II-2/13.3.3
  - Verify routes are accessible  
46 CFR 127.240  
SOLAS 14 II-2/13
  - Examine emergency lighting  
46 CFR 129.440 & 131.525  
46 CFR 112
  - Verify markings  
46 CFR 131.840  
SOLAS 14 III/11.5
70. Inspect mess deck and galley spaces
- Verify sanitary conditions  
46 CFR 131.515
  - Verify operation of electric stove & deep fryer overcurrent protection  
46 CFR 129.110 & .550  
46 CFR 110.10-1(j)

- Examine fire fighting equipment  
46 CFR 132.220  
SOLAS 14 II-2/10
- Examine chill box(s) alarms  
46 CFR 113.45-5
- Verify installation of both grab and sea rails on cooking equipment  
46 CFR 130.220  
IEEE 45/42.1.1
- Verify ventilation  
46 CFR 127.260  
SOLAS 14 II-2/9.7.5.2.1
- Examine condition of vents and ducts  
46 CFR 127.220(b)  
MSM II/B.1.N.9

- 71. Inspect paint locker(s)
  - Verify fire protection equipment  
46 CFR 132.310  
SOLAS 14 II-2/10.6.3
  - Examine space construction material  
46 CFR 127.220(c)  
SOLAS 14 II-2/9.2.3.3.2
  - Verify electrical installations  
46 CFR 129.520(b)
  - Verify means to secure ventilation  
46 CFR 127.250

## Lifesaving Equipment

- 72. Inspect Emergency Position Indicating Radio Beacon (EPIRB)
  - Verify registration  
46 CFR 133.60(a)  
47 CFR 80.1061(e)
  - Verify stowage  
46 CFR 133.60(a)(2)  
SOLAS 14 IV/7.1.6
  - Verify hydro-static release expiration date  
46 CFR 133.60(a)(2)  
SOLAS 14 IV/7.1.6
  - Verify battery date  
46 CFR 131.575(e)  
MSM II/B.1.P.3.I(2)
  - Verify markings  
SOLAS 14 III/9.2.3  
IMO Res A.760(18)
  - Witness function test  
MSM II/B.1.P.3.I(1)

- 73. Inspect general emergency alarm system
  - Verify location and operation of contact makers  
46 CFR 129.530  
46 CFR 113.25-5
  - Verify location and operation of audible signals  
46 CFR 113.25-9  
SOLAS 14 III/6.4.3
  - Verify location and operation of emergency red-flashing lights  
46 CFR 113.25-10
  - Verify markings  
46 CFR 113.25-20  
46 CFR 131.805

## Electrical Systems

- 113. Inspect switchboard(s)
  - Verify location, condition and installation  
46 CFR 129.330 (a)  
46 CFR 129.330 (b)
  - Verify non-conductive handrail and matting or grating on deck  
46 CFR 129.330 (c)  
46 CFR 129.330 (g)
  - Verify meters, controls and gauges are operational  
46 CFR 129.320 (c)
- 114. Inspect main service and propulsion generator(s) and prime mover(s)
  - Examine condition of components  
46 CFR 126.470  
46 CFR 61.20-3(a)
  - Verify installation of machinery covers and guards  
46 CFR 127.330
  - Verify required gauges  
46 CFR 129.320(c)
  - Verify set point and operation of over speed shut-down  
46 CFR 129.110  
46 CFR 111.12-1(b)
  - Verify set point and operation of lube oil shut-down  
46 CFR 129.110  
46 CFR 111.12-1(c)
  - Verify set point and operation of high jacket water temperature alarm  
46 CFR 130.460(a)(6)(ii)
  - Verify operation of reverse power relays  
46 CFR 129.323  
46 CFR 111.12-11(f)
  - Verify power source(s) requirements  
46 CFR 129.310-315  
SOLAS 14 II-1/41
  - Verify generator(s) nameplates are attached  
46 CFR 129.329(d)  
ABS 4-2-1/1.1

- 115. Inspect emergency generator(s) and prime mover(s)
  - Determine applicability  
46 CFR 129.110  
46 CFR 112.05-05
  - Determine prime mover requirement  
46 CFR 112.50-1  
46 CFR 111.12-1
  - Verify starting requirements  
46 CFR 129.110  
46 CFR 112.50-1
  - Inspect starting system(s)  
46 CFR 112.50-1(e)  
46 CFR 112.50-1(k)
  - Verify operation of auto-start function  
SOLAS 14 II-1/43.3  
46 CFR 112.50-1(d)

- Verify external and/or an internal exam and/or hydrostatic test needs
  - Examine externally
  - Examine internally (when accessible)
  - Witness hydrostatic test
  - Verify installation and operation of pressure gauges
  - Verify installation and operation of pressure-relieving devices
110. Inspect refrigeration/air conditioning system(s)
- Examine installation and condition
  - Verify compliance with MARPOL Annex VI
111. Inspect bilge system
- Verify location and operation of pump(s)
  - Verify emergency bilge suction
  - Examine manifolds, valves and piping
  - Verify bilge system pumping capabilities
  - Verify remote valve controls are fitted with nameplates
  - Verify bilge suction(s) are fitted with strainer(s)
  - Verify pollution placard is posted
112. Inspect ballast system
- Verify method for compliance
  - Examine pump condition and operation
  - Examine manifolds, piping, and valve(s) arrangement and structural integrity
  - Verify remote valve controls are fitted with nameplates
- 46 CFR 61.10-5(b)
  - 46 CFR 61.10-5(d)
  - 46 CFR 61.10-5(b)(1)
  - 46 CFR 61.10-5(b)(2)
  - 46 CFR 54.01-35
  - 46 CFR 61.10-5(d)
  - 46 CFR 61.10-5 (e)(4)
  - 46 CFR 54.15-5(f)
  - 46 CFR 54.15-5
  - 46 CFR 61.10-5(i)
- 46 CFR 128.410
  - MARPOL VII/12
- 46 CFR 128.440
  - 46 CFR 56.50-55(a)
  - 46 CFR 56.50-50(f)(3)
  - 46 CFR 56.50-50(c)
  - 46 CFR 56.50-50(d)
  - 46 CFR 56.50-50(a)(1)
  - 46 CFR 56.50-1(g)(2)(i)
  - 46 CFR 56.50-50(g)
  - 46 CFR 131.935
  - 33 CFR 155.450
- 33 CFR 151.2025(a)
  - NVIC 01-18
  - 46 CFR 128.110
  - 46 CFR 56.50-50
  - 46 CFR 56.50-50(h)-(k)
  - 46 CFR 56.50-1(g)(2)(i)
- Verify operation of Public Address system
  - Verify operation of loud speakers
  - Verify operations with emergency power source
74. Inspect line throwing equipment
- Verify stowage, quantity and type approval
  - Verify presence of appropriate messenger line
  - Verify markings on primer cartridges
  - Verify inventory list and equipment
  - Verify presence of service and maintenance instructions
  - Verify markings
75. Inspect distress signals
- Verify type approval
  - Verify quantity
  - Verify expiration date
  - Verify stowage and markings
76. Inspect life jackets
- Verify type approval
  - Verify quantity
  - Verify stowage
  - Verify markings
  - Examine lights
- 46 CFR 113.50-5(c)
  - SOLAS 14 III/6.4.2
  - 46 CFR 113.50-15
  - SOLAS 14 III/6.4.3
  - 46 CFR 113.25-6
  - SOLAS 14 III/6.4.2
  - 46 CFR 133.170
  - 46 CFR 160.031 & 160.040
  - 46 CFR 133.170(c)(2)(i)
  - 46 CFR 133.170(c)(2)(ii)
  - 46 CFR 160.031-6
  - 46 CFR 160.040-6
  - 46 CFR 133.170(c)(1)
  - 46 CFR 160.031-4(h)
  - 46 CFR 160.040-4(h)
  - SOLAS 14 III/9.2.3
  - IMO Res A.760(18)
  - 46 CFR 133.60(b)(1)
  - SOLAS 14 III/34
  - 46 CFR 133.60(b)(1)
  - SOLAS 14 III/6.3
  - 46 CFR 160.036-5
  - LSA Code 1.2.3
  - 46 CFR 131.890 & 133.60(b)(2)
  - SOLAS 14 III/6.3 & 9.2.3
  - 46 CFR 133.70(b)
  - SOLAS 14 III/4
  - 46 CFR 133.70(b)(1)
  - SOLAS 14 III/7.2.1
  - 46 CFR 133.70(b)(2)
  - 46 CFR 133.70(d)
  - 46 CFR 131.875 & 133.70(b)(3)
  - SOLAS 14 III/7.2.1 & 9.2.3
  - 46 CFR 133.70(b)(4)
  - SOLAS 14 III/7.2.1

- Verify location and information for donning instructions
  - Examine condition and suitability
77. Inspect work vests
- Verify type approval
  - Verify stowage
  - Examine condition and serviceability
78. Inspect immersion suits
- Verify type approval
  - Verify quantity and size
  - Verify stowage
  - Verify markings
  - Examine lights
  - Examine condition and suitability
79. Inspect life buoys
- Verify type approval
  - Verify quantity
  - Verify stowage
  - Verify markings
  - Examine attachments and fittings
  - Verify size/weight
  - Examine condition and suitability

- 46 CFR 133.80(b)(5)  
SOLAS 14 III/35.2
- 46 CFR 133.45  
46 CFR 160.006-2
- 46 CFR 131.710  
46 CFR 131.730  
46 CFR 131.740  
MSM II/B.1.P.2.I
- 46 CFR 133.70(c)  
SOLAS 14 III/4
- 46 CFR 133.70(c)(1)  
46 CFR 133.70(c)(2)(ii)
- 46 CFR 133.70(c)(2) & (d)  
SOLAS 14 III/32.3.4
- 46 CFR 131.875 & 133.70(c)(3)  
SOLAS 14 III/9.2.3
- 46 CFR 133.70(c)(4)  
SOLAS 14 III/32.3.2
- 46 CFR 133.45  
46 CFR 160.171
- 46 CFR 133.70(a)  
SOLAS 14 III/4
- 46 CFR 133.70(a)(1)  
SOLAS 14 III/7.1.1.1
- 46 CFR 133.70(a)(2)  
SOLAS 14 III/7.1.1.1
- 46 CFR 131.875 & 133.70(a)(3)  
SOLAS 14 III/7.1.4 & 9.2.3
- 46 CFR 133.70(a)(4)  
SOLAS 14 III/7.1.2 & .3
- 46 CFR 160.050-4(e)  
SOLAS 14 III/7.1.1
- 46 CFR 133.45  
46 CFR 160.006-2
106. Inspect main propulsion system(s)
- Examine condition, installation and arrangements of various system components
  - Examine foundations for structural integrity
  - Verify installation of protective covers or guards
  - Examine system's hull penetrations for structural integrity
  - Examine condition of air intakes screens and crankcase explosion relief valves
  - Verify condition and integrity of propulsion shaft couplings
107. Inspect non-metallic expansion joints
- Examine condition
  - Verify compliance with 10 year "in-service" requirement
108. Witness operational test of main propulsion automation
- Determine applicability
  - Verify no manual override devices not approved in test procedures
  - Witness operation of alarms, shutdowns, controls and internal communications (engineer assistance), IAW approved test procedure
  - Verify bridge controls/alarms function in sync with engineer room control panel
109. Inspect Unfired Pressure Vessels (UPVs)
- Verify data plate(s) are legible
  - Determine if UPV is exempt from inspection



- Examine equipment and condition
- Examine equipment for refueling facility

46 CFR 99.17

46 CFR 108.489(b)  
SOLAS 14 II-2/18.7

## Machinery

### 104. Inspect steering gear

- Examine electrical, mechanical, and hydraulic connections and linkages of main and auxiliary (emergency) systems
- Verify operation of communications between bridge and emergency steering station(s)
- Witness operational test of systems, in all modes of operation from emergency steering station(s)
- Verify accuracy of rudder angle repeaters
- Verify markings and operating instructions
- Witness operational test of auxiliary steering arrangement
- Witness operational test of alarms

46 CFR 126.430  
MSM II/C.4.B

46 CFR 130.110  
SOLAS 14 II-1/29.10

46 CFR 130.130/140  
SOLAS 14 II-1/29.3.2

46 CFR 130.130(h)  
46 CFR 130.140(b)(12)

46 CFR 131.845  
SOLAS 14 V/26.3.1

SOLAS 14 II-1/29.4.2

46 CFR 130.460(a)  
46 CFR 58.25-25

### 105. Inspect fuel oil service and transfer system

- Verify transfer procedures are posted or available
- Verify installation, arrangement and condition of piping, manifolds and filters
- Verify flange or mechanical joint(s) are fitted with a suitable shield
- Examine nonmetallic flexible hoses and fittings
- Verify operation of transfer pump(s) and remote shutdown(s)
- Witness test of remotely operated fuel oil system valve(s)

46 CFR 131.935  
33 CFR 155.720 & .740(c)

46 CFR 128.110  
46 CFR 56.50-75

46 CFR 56.50-60(j)  
SOLAS 14 II-2/4.2.2.5

46 CFR 56.50-75(b)(3)  
46 CFR 56.50-70(b)(2)(i)

46 CFR 58.01-25

46 CFR 56.50-60(d)

### 80. Inspect inflatable liferaft installations

- Verify type approval
- Verify quantity
- Verify stowage
- Verify markings and symbols
- Verify annual service dates
- Verify emergency instructions are posted
- Examine embarkation ladder

46 CFR 133.105(a)(1)(i)  
SOLAS 14 III/4

46 CFR 133.105(b)  
SOLAS 14 III/31.1.1.2

46 CFR 133.130  
SOLAS 14 III/13

46 CFR 131.865 & 160.151-57(m)

SOLAS 14 III/9.2.3

46 CFR 131.580

SOLAS 14 III/20.8.1

46 CFR 131.340

SOLAS 14 III/9

46 CFR 133.110(f)

SOLAS 14 III/9.2.3

### 81. Inspect lifeboat installations

- Verify type approval
- Verify quantity
- Verify stowage
- Verify markings
- Verify emergency instructions are posted
- Examine embarkation ladder

46 CFR 133.105(a)(4)

46 CFR 133.105(c)

46 CFR 133.105(b)

46 CFR 131.870

46 CFR 131.340

46 CFR 133.110(f)

### 82. Inspect Lifeboats

- Verify type approval
- Verify stowage
- Verify markings
- Examine equipment
- Examine condition
- Examine embarkation ladder

46 CFR 133.105(a)(6)  
SOLAS 14 III/4

46 CFR 133.105(a)(6)  
46 CFR 199.130

46 CFR 131.855

SOLAS 14 III/9.2.3

46 CFR 199.175

LSA Code 4.4.8

46 CFR 131.540

SOLAS 14 III/20.2

46 CFR 133.110(f)

SOLAS 14 III/11

- Examine stowage of cylinders
- Examine condition of cylinder(s) and system hoses
- Verify piping and nozzles are clear
- Witness functional test of time delays, alarms, and shutdowns
- Verify warnings signs, markings and operating instructions are posted

- 46 CFR 132.350(c)(2)(ii)  
46 CFR 147.60
- 46 CFR 147.67  
DIOM Manual
- 46 CFR 132.350(c)(2)(iv)  
DIOM Manual
- DIOM Manual

## Dynamic Positioning System

- 101. Check Dynamic Positioning operations
  - Verify master awareness of Federal Register Notice 77 FR 62247
  - Verify Critical Activity Mode of Operation (CAMO) is identified
  - Verify operations are within an Activity Specific Operating Guideline (ASOG)
  - Document findings in MISLE

- 46 CFR 133.135  
SOLAS 14 III/4, 14 & 31.2
- 46 CFR 133.140  
SOLAS 14 III/14
- 46 CFR 131.855  
SOLAS 14 III/9.2.3
- 46 CFR 133.175  
LSA Code 5.1.2
- 46 CFR 131.540  
SOLAS 14 III/20.2
- 46 CFR 133.110(f)  
SOLAS 14 III/17

- Examine condition
- Verify crew training
- Witness recovery operation

- 46 CFR 131.540 & 133.153  
SOLAS 14 III/20.2
- 46 CFR 133.90  
SOLAS 14 III/9
- 46 CFR 133.153  
SOLAS III/20 .3, .6, .7 & .11

- 83. Inspect rescue boat
  - Verify type approval
  - Verify stowage
  - Verify markings
  - Examine equipment
  - Verify condition
  - Examine embarkation ladder

- 46 CFR 133.135  
SOLAS 14 III/4, 14 & 31.2
- 46 CFR 133.140  
SOLAS 14 III/14
- 46 CFR 131.855  
SOLAS 14 III/9.2.3
- 46 CFR 133.175  
LSA Code 5.1.2
- 46 CFR 131.540  
SOLAS 14 III/20.2
- 46 CFR 133.110(f)  
SOLAS 14 III/17

## Heli-Deck

- 84. Inspect rescue platform(s)
  - Examine condition
  - Verify crew training
  - Witness recovery operation
- 85. Inspect davit(s) and appurtenances
  - Examine condition
  - Verify operating instructions are posted
  - Verify required maintenance has been conducted
- 86. Witness davit weight test
  - Verify test weights
  - Verify dynamic test of winch brake
  - Verify operational test of lifeboat and rescue boat release gear
  - Inspect brake pads and stressed structural parts
  - Verify operational test of stored power system

- 77 FR 62247
- MTS DP Ops Guide 2/4.9
- MTS DP Ops Guide 2/4.9
- MSM I/A.3

- 102. Inspect helideck
  - Verify visual aids and markings
  - Examine netting
  - Verify height of obstructions
  - Verify means of escape
- 103. Inspect fire fighting system(s) for helideck
  - Verify foam agent
  - Verify location(s) of hydrants
  - Verify annual tests reports

- 46 CFR 126.440  
46 CFR 199.190(i)(5)
- 46 CFR 199.190(i)(2)  
SOLAS 14 III/20.11.1.3
- 46 CFR 199.190(i)(5)  
SOLAS 14 III/20.11.2.3
- MSM I/B.1.P.2 & P.3  
NVIC 04-07
- 46 CFR 133.150(e)  
SOLAS 14 III/16.1

## Firefighting Systems

- Verify markings  
46 CFR 161.002-4  
FSS Code 9.2.5.1.3 & 4
  - Verify alarms sounds in required locations  
46 CFR 161.002-10(b)  
SOLAS 14 II-2/7.4.2
98. Inspect high pressure CO2 system(s)
- Ensure safety precautions are implemented prior to servicing system  
MSM II/C.2.I.5
  - Verify servicing compliance  
46 CFR 126.450
  - Witness weighing of cylinders  
46 CFR 132.350(c)(2)(ii)  
NVIC 06-72 Encl.1/II.D.2.1
  - Inspect stowage of cylinders  
46 CFR 132.350(c)(2)(i)  
SOLAS 14 II-2/10.4.3
  - Examine materiel condition of system components  
46 CFR 132.350(c)(2)(iii)
  - Verify piping and nozzles are clear  
46 CFR 132.350(c)(2)(i)
  - Witness operational test of time delays, alarms, and shutdowns  
46 CFR 132.350(c)(2)(iv)
  - Verify markings and warning signs are posted  
46 CFR 131.815-.825
  - Verify operating instructions are posted  
NVIC 06-72 Encl.1/II.D.2.4
99. Inspect water mist system(s)
- Verify DIOM  
46 CFR 126.450  
46 CFR 132.350(c)(2)(i)  
DIOM Manual
  - Witness manual operational test  
DIOM Manual
  - Witness automatic operational test  
DIOM Manual
  - Witness pump operations  
DIOM Manual
100. Inspect clean agent Fire extinguishing system(s)
- Ensure system plan approval  
46 CFR 162.161  
NFPA 2001 Chapter 5
  - Verify DIOM for installed system  
46 CFR 162.161-5  
DIOM Manual
  - Verify servicing as outlined in DIOM  
DIOM Manual
  - Validate agent quantity and pressure of refillable cylinders  
46 CFR 162.161  
DIOM Manual

87. Review approved Safety Plan (Fire-Control Plan)
- Verify location and approval  
46 CFR 127.110(a)(3)  
SOLAS 14 II-2/15.2.4
  - Verify equipment installation to approved plan  
46 CFR 131.945
  - Verify use of international symbols  
SOLAS 14 II-2/15.2.4.1
  - Verify structural fire protection is identified  
SOLAS 14 II-2/15.2.4  
IMO Res A.952(23)  
46 CFR 131.945  
SOLAS 14 II-2/15.2.4.1
88. Inspect areas for compliance with Structural Fire Protection (SFP) requirements
- Confirm installation in accordance with approved Fire Safety Plan  
46 CFR 127.110(a)(3)  
SOLAS 14 II-2/15.2.4
  - Verify boundaries are maintained  
46 CFR 127.280  
46 CFR 127.220
  - Verify no unapproved modifications  
46 CFR 126.150
89. Inspect fire boundary closures
- Witness operation of local and remote controls of dampers and fire doors  
46 CFR 129.110 & .540  
46 CFR 111.103
  - Confirm dampers and fire doors close during ventilation shutdowns for machinery and accommodation spaces  
46 CFR 127.250  
46 CFR 127.260
  - Verify remote controls and dampers are clearly marked & fitted with open/closed indicators  
46 CFR 131.896  
46 CFR 131.899
90. Inspect fire main and pump(s) - primary and emergency
- Verify number  
46 CFR 132.120(a)  
SOLAS 14 II-2/10.2.2.2.2
  - Verify capable of providing adequate pressure  
46 CFR 132.120(a)  
SOLAS 14 II-2/10.2.2.4.1
  - Verify self priming arrangement  
46 CFR 132.120(a)
  - Verify fitted with gauge and relief valve(s)  
46 CFR 132.120 (b) & (c)  
NVIC 06-72 Encl.1/II.B
  - Verify location of controls and markings  
46 CFR 130.420/430  
46 CFR 129.220

<ul style="list-style-type: none"> <li>• Verify manifolds are labeled correctly</li> <li>• Verify materiel condition of system</li> <li>• Verify operation of remote control(s)</li> </ul>	<p>46 CFR 132.110(b)</p> <p>46 CFR 132.110/120</p> <p>46 CFR 130.430 NVIC 06-72 Encl.1/I.C.2.4</p>	<ul style="list-style-type: none"> <li>• Verify type(s) and quantity(s)</li> <li>• Verify markings</li> </ul>	<p>46 CFR 132.220 CVC Policy Ltr 18-04</p> <p>46 CFR 131.835</p>
<p><input type="checkbox"/> 91. Inspect fire stations</p> <ul style="list-style-type: none"> <li>• Verify number of hydrants</li> <li>• Verify hoses meet required length, size, markings and quantity</li> <li>• Verify compliance with periodic hydro testing</li> <li>• Verify operation of valves at fire stations</li> <li>• Verify spanner</li> </ul>	<p>46 CFR 132.130(a)</p> <p>46 CFR 132.130(b)</p> <p>46 CFR 132.100 &amp; .130(g), (k) &amp; (n) SOLAS 14 II-2/10.2.3</p> <p>46 CFR 132.350(c)(3) SOLAS 14 II-2/14.2.2</p> <p>46 CFR 132.130(i) NVIC 06-72 Encl.1/I.C.2.3</p> <p>46 CFR 132.130(f)</p>	<ul style="list-style-type: none"> <li>• Confirm locations with approved Safety Plan (Fire Control Plan)</li> <li>• Verify markings</li> <li>• Verify quantity</li> <li>• Examine condition</li> </ul>	<p>46 CFR 132.360 Fire Control Plan</p> <p>46 CFR 131.880</p> <p>46 CFR 132.360</p> <p>SOLAS 14 II-2/10.1.1</p> <p>46 CFR 131.590</p>
<p><input type="checkbox"/> 92. Inspect portable fire extinguishers</p> <ul style="list-style-type: none"> <li>• Confirm locations with approved Safety Plan (Fire Control Plan)</li> <li>• Verify servicing compliance</li> <li>• Verify installation &amp; stowage</li> <li>• Examine condition of cylinder(s) and hose(s)</li> <li>• Verify type and quantity</li> <li>• Verify markings</li> <li>• Confirm spare charges</li> </ul>	<p>46 CFR 131.945 SOLAS 14 II-2/15.2.4</p> <p>46 CFR 132.350(c)(1) SOLAS 14 II-2/14.2.2</p> <p>46 CFR 132.220 SOLAS 14 II-2/10.3.2</p> <p>46 CFR 132.350(c)(1) NFPA 10 Chapter 7</p> <p>46 CFR 132.220 SOLAS 14 II-2/10.3.2</p> <p>46 CFR 131.835</p> <p>46 CFR 132.220 SOLAS 14 II-2/10.3.3</p>	<p><input type="checkbox"/> 95. Inspect fireman's outfit(s)</p> <ul style="list-style-type: none"> <li>• Verify type approval</li> <li>• Verify stowage</li> <li>• Verify location(s) are marked on Safety Plan (Fire Control Plan)</li> <li>• Verify quantity and size</li> <li>• Verify condition</li> <li>• Verify spare bottles</li> </ul>	<p>SOLAS 14 II-2/10.10.1 FSS Code 3.2.1</p> <p>SOLAS 14 II-2/10.10.3.1</p> <p>SOLAS 14 II-2/15.2.4</p> <p>SOLAS 14 II-2/10.10.2</p> <p>SOLAS 14 II-2/18.5.1.6</p> <p>SOLAS 14 II-2/14.2</p> <p>SOLAS 14 II-2/10.10.2.5</p>
<p><input type="checkbox"/> 93. Inspect semi-portable fire extinguishers</p> <ul style="list-style-type: none"> <li>• Confirm locations with approved Safety Plan (Fire Control Plan)</li> <li>• Verify servicing compliance</li> <li>• Verify installation &amp; stowage</li> <li>• Examine condition of cylinder(s) and hose(s)</li> </ul>	<p>46 CFR 131.945 SOLAS 14 II-2/15.2.4</p> <p>46 CFR 132.350(c)(1) SOLAS 14 II-2/14.2.2</p> <p>46 CFR 132.220 &amp; .240 SOLAS 14 II-2/10.3.2</p> <p>46 CFR 132.350(c)(2)</p>	<p><input type="checkbox"/> 96. Inspect International Shore Connection</p> <ul style="list-style-type: none"> <li>• Confirm location with Safety Plan (Fire Control Plan)</li> <li>• Verify gaskets and bolts are with the connection</li> <li>• Verify markings</li> </ul>	<p>Fire Control Plan</p> <p>SOLAS 14 II-2/10.2.1.7 FSS Code 2.2</p> <p>IMO Res A.952(23) Fire Control Plan</p>
<p><input type="checkbox"/> 97. Inspect fire detection system</p> <ul style="list-style-type: none"> <li>• Determine applicability</li> <li>• Witness system test</li> <li>• Verify two sources of power</li> <li>• Verify operation of control unit's visual and audible alarms</li> </ul>	<p>46 CFR 130.400 SOLAS 14 II-2/1</p> <p>46 CFR 130.480 SOLAS 14 II-2/7.3.2</p> <p>46 CFR 161.002-9 46 CFR 129.110 → 113.10-9</p> <p>46 CFR 161.002-8 SOLAS 14 II-2/7.2.2</p>	<p><input type="checkbox"/> 97. Inspect fire detection system</p> <ul style="list-style-type: none"> <li>• Determine applicability</li> <li>• Witness system test</li> <li>• Verify two sources of power</li> <li>• Verify operation of control unit's visual and audible alarms</li> </ul>	<p>46 CFR 130.400 SOLAS 14 II-2/1</p> <p>46 CFR 130.480 SOLAS 14 II-2/7.3.2</p> <p>46 CFR 161.002-9 46 CFR 129.110 → 113.10-9</p> <p>46 CFR 161.002-8 SOLAS 14 II-2/7.2.2</p>