

# United States Coast Guard



## K-BOAT INSPECTION BOOK Inspector Reference Guide

<b>MISLE Activity #</b>		
<b>Name of Vessel:</b>		
<b>Official Number:</b>		
<b>Date:</b>	<b>Location:</b>	
<b>Inspectors:</b>		
<b>SOLAS:</b> <input type="checkbox"/>	<b>O/N Pax:</b> <input type="checkbox"/>	<b>Covered SPV:</b> <input type="checkbox"/>
<b>Route</b>		
<input type="checkbox"/> Oceans <i>&gt; 20 NM offshore</i>	<input type="checkbox"/> Limited Coastwise <i>≤ 20 NM from harbor or safe refuge</i>	<input type="checkbox"/> Lakes/Bays/Sounds <i>Not beyond demarcation</i>
<input type="checkbox"/> Coastwise <i>≤ 20 NM offshore</i>	<input type="checkbox"/> Great Lakes	<input type="checkbox"/> Rivers
<b>Inspection Type</b>		
<input type="checkbox"/> Certification of Inspection (COI)	<input type="checkbox"/> Annual	<input type="checkbox"/> Drydock/ISE
<input type="checkbox"/> Expanded Annual	<input type="checkbox"/> Reduced Annual	<input type="checkbox"/> Remote - Partial Date:
<b>SIP</b> <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> In Service	<b>SMS</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Voluntary

Inspection Aid KI  
Rev. Apr 2025  
CVC-FM-840K(2)

## Use of Small Passenger Vessel (SPV) Inspection Aid

This is an evolution of the SPV Training Aid and SPV Inspection Checklist. This Inspection Aid is intended to be used by Coast Guard Marine Inspectors during the inspection of small passenger vessels on Certificate of Inspection (initial/renewal) and Tier I inspections. This Inspection Aid provides a quick reference for all the steps necessary to complete specific tasks with these associated inspections. This Aid also provides quick reference to appropriate CFR/IMO references as well as defined MISLE deficiency codes to increase data standardization.

## References

-Unless specified otherwise, in an effort to save space, a CFR cite will be from 46 CFR. For example, 46 CFR 116.100 will be listed as 116.100. If the cite is from another Title it will be listed as 33-164.30 for 33 CFR 164.30.

-Marine Safety Manual Volume II is now contained in seven COMDTINSTs. Cites for the MSM now read as MSM.70/A.6.C with .7X indicating the COMDTINST number.

-This Inspector Reference cites SOLAS regulations from the 2020 Consolidated Edition (SOLAS 20). In some cases, the regulations in SOLAS 20 may not apply due to the keel laid date of the vessel. Marine Inspectors must pay close attention to the applicability dates of the SOLAS chapters and Subchapter K regulations when conducting inspections on SOLAS applicable vessels. The cites will not list the SOLAS year.

**CFR cite colors: All Ships – Black, Existing K (i.e. T-L) – Green,  
New K – Blue, Covered – Orange**

## Word Printing Instructions:

**File>Print>Page Setup> Under Pages – Multiple Pages Select Book Fold  
File>Print>Print Both Sides Flip on Short End**

## Adobe Printing Instructions:

**Page Sizing & Handling Block>Booklet**

**Booklet Subset: Both sides; Binding: Left**

A full job aid is not always needed, use the custom print option to type the page numbers needed as appropriate.

Standard Vessel – COI/Annual Inspection: Pages 1,4-45

- In-Service Minimum Inspection Items
- ♦ Reduced Annual Minimum Inspection Items  
*(Inspection item markings to left of check boxes)*

**This Inspector Reference Guide is maintained by CG-CVC-1. Please submit any change requests to [CG-CVC@uscg.mil](mailto:CG-CVC@uscg.mil).**

When entering a deficiency in the MISLE vessel inspections tab, the associated classification code for an inspection item in this Job Aid shall be used. The classification code denotes the system, subsystem and component. Use the classification code as follows:

Example classification code: **09112**

(This is the specific classification code for items associated with medical equipment.)

To enter the classification code, the first two digits denote the System Name provided in the dropdown menu. In this example **09** corresponds to the System Name of Working and Living Conditions.

The third digit provides the Subsystem Name provided in the dropdown menu. In this example, **1** corresponds to the Subsystem Name of Living conditions.

Finally, the last two digits correspond to the Component Name provided in the dropdown menu, in this example **12** corresponds to Medical equipment.

**09** – Working Conditions (System Name)

**1** – Living Conditions (Subsystem Name)

**12** – Medical Equipment (Component Name)

If a classification code contains CG in it; then the listing will be found in the CG specific drop-down menu.

Example: CG001

(This is the classification code for Certificates of Inspection)

If the classification code is listed with slash marks between numbers, this signifies that there may be options for that inspection item and it is up to the discretion of the Marine Inspector to choose the most appropriate option.

Example: 02114/5/6

This listing signifies that classification codes 02114, 02115, or 02116 should be used and the Marine Inspector should use their judgement to determine which is the most appropriate.

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## ◆◆Section 1: Annual Focus Areas: 2025

Action	Ref	Code
<input type="checkbox"/> Means of escape <ul style="list-style-type: none"> <li>○ Verify marking</li> <li>○ Ensure unobstructed</li> </ul>	122.606 114.400 (definition of means of escape) 116.500(l) 116.500(n)	01310 07120
<input type="checkbox"/> Trash cans <ul style="list-style-type: none"> <li>○ Noncombustible</li> <li>○ No openings in side or bottom</li> </ul>	116.405(i)	07199
<input type="checkbox"/> Crew overnight accommodations <ul style="list-style-type: none"> <li>○ Must be provided if operating more than 12 hrs unless crew is put ashore and new crew provided*</li> </ul> <p><i>*Different than "alternate crew provided" for manning</i></p>	116.710	09114
<input type="checkbox"/> MISLE Entry <ul style="list-style-type: none"> <li>○ Verify drainage type entered under "Hull" --&gt; "Systems"</li> <li>○ Verify the correct watertight subdivision type is entered under "Hull" --&gt; "Systems" (most vessels are Type 2)</li> <li>○ Verify watertight bulkheads are entered under "Hull" --&gt; "Decks and Fittings"</li> <li>○ Verify watertight doors through watertight bulkheads are entered under "Hull" --&gt; "Watertight Integrity"</li> </ul>		

## Section 2: Dockside Assessment (DA)

Action	Ref	Code
□ Initial vessel visual examination.		
○ Presence of anchor(s) ( <i>when visible</i> )	121.300	09228
○ Draught (draft) marks & load marks (>65' or SOLAS)	122.602	03199
○ Load Line & Deckline (>79' or SOLAS)	114.122	
○ IMO Hull marking (SOLAS)	SOLAS XI-1/3	02120
○ Machinery space marking (SOLAS)	SOLAS XI-1/3	
○ Name and hailing port	122.602	01310
• <i>Name clearly marked on port and stbd bow and stern; hailing port on stern; NLT 4" Latin alphabet, Arabic /Roman #'s</i>	67.123	
○ Signs of pollution/illegal discharge on hull	33-151.10 33-155.330 33-155.350	14199
○ Hull condition	115.802	02106
○ Visible shell damage, bulwarks, rails and guards		03113
○ Examine means of embarkation (gangway/ladders)	29- 1915.74(a)(6)	09223
○ Condition of mooring lines	121.300	09228

### Section 3: Certificates & Documents (CD)

Action	Ref	Code
♦ □ Certificate of Inspection (COI)		CG001
○ Presence of original	115.302	
○ Routes & Conditions, and amendments	115.120	
○ Manning	MSM III/B.2.C 15.501	
○ Certificate is endorsed	115.802(a)(3)	
○ SPV Decal is posted	115.310	
♦ □ Vessel's stability letter	170.120	01326
○ Presence of stability documents	115.306	
○ Required contents	170.110(d)	
♦♦ □ Merchant Mariner Credentials (MMCs)		01201
○ MMCs meet COI manning requirements	15.515 15.805(a)(4)	
• <i>Route</i>		
• <i>Position</i>		
• <i>Tonnage</i>		
○ Presence of original MMCs	122.402	
○ Validity	10.205	
○ Senior Deckhand ( <i>if applicable</i> )	MSM III B.2.C NVIC 1-91	
○ Verify Vessel Security Officer endorsement (>150 pax or SOLAS)	33-104.215 15.1113	
○ Verify Transportation Worker Identification Credential (TWIC)	10.203(b)	
□ Drug and alcohol program		18299
○ Currency of Employee Assistance Program (EAP)	16.401	
○ Presence and currency of drug and alcohol testing equipment ( <i>on board or available within 2 hrs</i> )	122.212 122.210 4.06-15 4.06-20(b)(2)	
○ Training of designated testing crewmember ( <i>when applicable</i> )	4.06-20(a)(3)	
○ Random chemical testing program for dangerous drugs	16.230	
○ Pre-employment testing program for dangerous drugs	16.210	
○ Means of post-accident testing chemical testing for dangerous drugs	122.210 122.212 4.06-15	
♦ □ Maintenance and service records		
○ Firefighting service reports	115.810	07199
○ Liferaft servicing reports	122.730	11199
□ Vessel General Permit (VGP) (>79')	CG-543 Policy Ltr99103 11-01	
○ Notice of Intent (NOI) has been submitted	VGP 1.5.1.1 & 10	
○ Compliance with ballast water record keeping requirements	VGP Table 1 VGP 4.3	

### Section 3: Certificates & Documents (CD)

Action	Ref	Code
○ Noncompliance & reportable quantity reports have been submitted	VGP 4.4.1 VGP 4.4.2	
◆ <input type="checkbox"/> Muster lists and emergency instructions		04108
○ Muster lists and emergency instructions are available	122.510 122.512 122.502 122.504	
• <i>Fire, flooding, heavy weather, man overboard</i>		
○ Station bill (>65' & >49 overnight OR ≥ 4 crew)	122.514	
○ Posted at operating station & a conspicuous location in each crew accommodation space.	122.510(a) 122.514	
○ <b>Passenger safety bill in each pax cabin</b>	<b>122.515</b>	
◆ <input type="checkbox"/> Certificate of Documentation (COD) (>5 NT)		CG003
○ Presence of original	67.313, 67.321	
○ Endorsement(s) for current service(s)	67.17, 67.19	
○ Validity	67.161, 67.163	
State registered: If vessel is non-US built, refer to USCBP JADE: <a href="mailto:jonesact@cbp.dhs.gov">jonesact@cbp.dhs.gov</a>		
<input type="checkbox"/> Federal Communications Commission Marine Radio Operator Permit	47-80.159(e)	01104
<input type="checkbox"/> Federal Communications Commission Bridge-to-Bridge Certificate (>65')		01104
○ Presence	47-80.1001	
○ Validity	47-80.1005	
○ Contents	47-80.1005	
• <i>The VHF radiotelephone must have operating capability on Channels 13 (156.650 MHz) and 22A (157.100 MHz).</i>		
<input type="checkbox"/> Federal Communications Commission Station License		05103
○ Presence	47-80.13	
○ Other classes of equipment are authorized for operation	47-80.17(a)(4)	
○ Contents	47-80.99	
○ Validity	47-80.25	
<input type="checkbox"/> Federal Communications Commission Safety Radiotelephony Certificate	47-80.59(a)(2)	05103
○ Presence	47-80.901	
○ Validity	47-80.933	
○ Contents	47-80.59	



## Section 4: Logs & Manuals (LM)

Action	Ref	Code
♦♦ □ Vessel's log (International, >65' with >49 Overnight)	122.282	01305
♦ ○ EPIRB tests (high seas, >3nm)	122.728	01305
• <i>Monthly</i>		
♦ ○ Drills	122.520	11199
• <i>Date/Description</i>	122.524	CG004
• <i>Abandon ship</i>		
• <i>Man Overboard</i>		
• <i>Fire</i>		
• <i>Rescue Boat</i>		
• <i>Security (SOLAS)</i>		
♦ ○ Maintenance of survival craft, rescue boats, and launching appliances	122.702(d)	11199
• <i>Instructions onboard (&gt;65')</i>	122.722	
• <i>Falls End-End (30 months)/ Replace (5 years)</i>	122.726	
• <i>Monthly inspections</i>		
• <i>Quarterly inspections (winches, motor controllers, limit switches)</i>		
• <i>Annual inspections (rescue boat, davit, batteries)</i>		
○ Covered SPV logging requirements		01305
• <i>Crew egress training (monthly, new crew)</i>	122.420(b)(3)	
• <i>Overnight only: Passenger egress drills</i>	122.507(b)	
□ Waste/Garbage Management Plan ( <i>Route &gt;3nm, Domestic</i> )	121.702	
○ Record Book	33-151.55	01320
○ Management Plan (>40')	33-151.57	14503
○ Placard (>26')	33-151.59	14502
□ Crew and passenger list maintained (Ocean/Coastwise [O\C] and overnight or disembark or embark at different ports).	122.502	10127
□ Voyage plan prepared (O/C or overnight).	122.503	10127
□ Passenger count.	122.504	10127
○ Communicated verbally or in writing to rep onshore		
♦♦ □ Safety orientation.	122.506	10127
○ Placards may substitute on ferries on voyages <15 mins.	122.506(c)	
○ Voyages >24 hours, passengers are required to don lifejackets and head to embarkation station.	122.506(e)	
□ Passenger egress drill – Overnight only	122.507(a)	

## Section 5: Bridge/Navigation (BN)

Action	Ref	Code
♦ □ Operations of internal communication and control systems		
○ Fixed means of communication from operating station to propulsion machinery space ( <i>Pilothouse, Aux Steering</i> )	121.602	04116
○ Operation of Public Address System <ul style="list-style-type: none"> <li>• <i>Fixed</i></li> <li>• <i>&lt;65' &amp; OCMI Approval - Bullhorn</i></li> <li>• <i>Operable from operating station on vessels with &gt;1 deck or overnight passengers</i></li> </ul>	121.610	04101
○ Two independent means of controlling each propulsion engine <ul style="list-style-type: none"> <li>• <i>Except multiple engine vessels w/independent control systems</i></li> </ul>	121.620	13199
□ Radar(s) (O/LC/GL/LBS/R >1nm) <ul style="list-style-type: none"> <li>○ Safety precautions are followed</li> <li>○ Verify operation</li> </ul>	121.404 121.115(a)  Operation Manual	10103
□ Magnetic compass (All, except Rivers, Non-self-propelled, short-LBS) <ul style="list-style-type: none"> <li>○ Illumination (<i>Nighttime Ops</i>) <ul style="list-style-type: none"> <li>• <i>Old T-L at OCMI discretion</i></li> <li>• <i>Not required if limited to daytime ops</i></li> </ul> </li> <li>○ Mounting location</li> <li>○ Operation</li> </ul>	121.402(a) 121.115(a) 184.20-1 121.402(c)	10105
□ Electronic position-fixing device (satellite navigation (GPS) receiver) ( <i>Oceans</i> ) <ul style="list-style-type: none"> <li>• <i>Old T-L at OCMI discretion</i></li> </ul>	121.410 121.115(a) Operation Manual	10115
□ Radio telephone equipment ( <i>&gt;20m, power-driven</i> ) <ul style="list-style-type: none"> <li>○ Installation(s)</li> <li>○ Equipment for operational area(s)</li> <li>○ Emergency broadcast placard <ul style="list-style-type: none"> <li>• <i>46 CFR 121.510 - Recommended emergency instructions format</i></li> </ul> </li> <li>○ Functional test</li> </ul>	121.502 47-80.1003 47-80.1015  121.506 121.510  47-80.931	05103

## Section 5: Bridge/Navigation (BN)

Action	Ref	Code
IF vessel travels	THEN it MUST carry:	
>1,000 ft from shore but <20 NM	1 VHF	
20 NM to 100 NM	1 VHF and 1 MF	
100 NM to 200 NM	1 VHF, 1 MF, 1 SSB or INMARSAT radio, and 1 NAVTEX receiver.	
> 200 NM	1 VHF, 1 MF, 1 SSB or INMARSAT radio, and 1 NAVTEX receiver, 1 distress frequency receiver, and 1 automatic radiotelephone alarm signal generator	
Vessels $\geq 65'$ , operating in VTS waters, are required at least two VHF radios. One radio must be tuned to the VTS frequency under 33 CFR 161.12 as per 33 CFR 26.03(f)		
<input type="checkbox"/> Navigation and signaling lights, and dayshapes <ul style="list-style-type: none"> <li>Operation of navigation and anchor lights <ul style="list-style-type: none"> <li>&gt;65' must also meet UL1104</li> </ul> </li> <li>Dayshapes <ul style="list-style-type: none"> <li>Certificate of Alternate Compliance</li> </ul> </li> </ul>	33-83.20(b) COLREG Rule 20 120.420 33-84.13  33-81.9	10109
<input type="checkbox"/> Sound signaling devices <ul style="list-style-type: none"> <li>Presence of signaling device</li> <li>Operation of whistle and bell (&gt;12m) <ul style="list-style-type: none"> <li>NLT 12" diameter for a vsl <math>\geq 65'</math></li> <li>NLT 8" diameter for a vsl 40' – 65'</li> <li>&lt;100m gong required</li> </ul> </li> </ul>	33-83.33 COLREG Rule 33	10109
<input type="checkbox"/> Navigational publications and nautical charts (as appropriate for route) <ul style="list-style-type: none"> <li>Charts (ENCs: See NVIC 01-16 Ch. 2)</li> <li>Tide Tables</li> <li>River Current publication or Current tables</li> <li>Coast Guard Light List</li> <li>U.S. Coast Pilot</li> <li>COLREGs</li> <li>Inland Navigation Rules <ul style="list-style-type: none"> <li>Copies or excerpts are allowed.</li> </ul> </li> </ul>	121.420       COLREG A/1 33-88.05 121.420(b)	       10111 10112 10116
<input type="checkbox"/> Steering system controls at operating station <ul style="list-style-type: none"> <li>Operation and control</li> <li>Operation of rudder angle indicator (Power-driven main steering) <ul style="list-style-type: none"> <li>Provided at main steering station in pilothouse and in steering gear compartment</li> </ul> </li> <li>Audible and visible alarm in pilothouse <ul style="list-style-type: none"> <li>Failure of electric power to control</li> <li>Failure of power to power unit</li> </ul> </li> </ul>	119.600 182.30-1 115.814 58.25-25(a) 113.40-5 113.40-10  58.25-25(d)	       13199

## Section 5: Bridge/Navigation (BN)

Action	Ref	Code
<ul style="list-style-type: none"> <li>• <i>Low oil level</i></li> <li>○ Auto restart for control systems after electrical power is restored after it has failed</li> <li>○ Engine order telegraph required unless no means of normal engine control is available from engine room</li> </ul>	58.25-30 113.35-5	
◆ □ Alarms and gauges at operating station		08199
<ul style="list-style-type: none"> <li>○ Visual and audible Bilge high level alarms for:               <ul style="list-style-type: none"> <li>• <i>Spaces with through-hull fitting below deepest load waterline</i></li> <li>• <i>Machinery space bilge, bilge well, shaft alley bilge</i></li> <li>• <i>Space with non-watertight closure</i></li> </ul> </li> <li>○ Automatic bilge pump indicator</li> <li>○ Propulsion engine gauges               <ul style="list-style-type: none"> <li>• <i>RPM, JW discharge temp, LO pressure (RPM not required for Old T-L)</i></li> </ul> </li> <li>○ Audible or visual alarm for exhaust cooling system (<i>Wet Exhaust</i>)</li> </ul>	119.530(a)-(b) 119.530(b) 119.410(b) 119.425(b)(5)	
◆ □ Distress signals		11116
<ul style="list-style-type: none"> <li>○ USCG type approval</li> <li>○ Quantity in accordance with vessel's route               <ul style="list-style-type: none"> <li>• <i>O/C/LC - 6 hand red flare distress signals &amp; 6 hand orange smoke signals</i></li> <li>• <i>LBS/R - 3 hand red flare distress signals &amp; 3 hand orange smoke signals</i></li> <li>• <i>May substitute red parachute flares for red hand flares.</i></li> <li>• <i>May substitute red hand flares, rocket parachute for orange smoke</i></li> <li>• <i>Vsls on short runs limited to 30 mins do not need to carry distress signals</i></li> </ul> </li> <li>○ Expiration date</li> <li>○ Stowed in brightly colored, portable watertight container or pyrotechnic locker</li> <li>○ Marked "Distress Signals"</li> </ul>	160 series 117.68 122.726(c) 117.68(e) 122.614 122.614	
◆ □ Watch monitoring device – <i>Overnight only</i>	122.410(b)	08199
<ul style="list-style-type: none"> <li>○ <i>Keeps night watchman awake</i></li> <li>○ <i>Alerts other crew if watchman is not awake</i></li> </ul>		

## Section 6: General Health & Safety (GH)

Action	Ref	Code
<input type="checkbox"/> Upper decks marked for maximum number of PAX as per stability letter	122.602(f)	01310
♦♦ <input type="checkbox"/> Accommodations (Crew & Passenger)	116.800 177.25, 177.30-7	09198
○ Location		09114
○ Number of berths	116.710 116.810	09117
• <i>No more than 3 high</i>		
• <i>Berth &gt;60" above deck must have fitted access</i>		
• <i>Wood, FRP, metal construction</i>		
• <i>Required for crew if vessel is operated &gt;12hrs in a 24hr period.</i>		
○ Spaces are of appropriate size	116.800 116.810	09117
• <i>74" L x 24" W x 24" H</i>		
• <i>Ceilings ≥74" for accommodations, aisles, passageways</i>		
○ Accessibility to escape routes	177.15-1 116.810(c)	07120
• <i>Not above or dependent on a berth – Overnight only</i>	116.500(o)	
♦♦		
○ Ventilation	116.600(c)	09103
○ Sanitary condition	116.800(c) 115.818	09127
♦♦		
○ General alarm is adequate	120.550	08101
• <i>All vsls with overnight accommodations</i>		
• <i>Public address system may be used.</i>		
• <i>Vessels &gt;65' alarm must meet 113.25</i>		
○ <i>Interconnected smoke detection &amp; alarm units in pax spaces (see Section 8: Fire Safety)</i>	118.400(d)	07106
○ Overnight accommodation spaces are fitted with a type-approved, smoke-activated fire detection system	118.400(e)	07106
○ Proper operation of detectors/alarm units	115.810(a)(7)	07106
<input type="checkbox"/> Means of escape from accommodation, machinery and other spaces		07120
○ Means of escape (2) – widely separated ( <i>adequate size ≥32"</i> ), operable from either side and open towards expected escape direction	116.500 177.15-1	
• <i>Exemptions for 2 escapes in 116.500(p)</i>		
• <i>Overnight only: Not above/dependent on a bed</i>	116.500(o)	
• <i>Overnight only: 2 means lead to separate spaces or open deck, CVC PL 23-03 Ch.1</i>	116.500(b)	
♦♦		
○ Routes are accessible	116.500	
♦♦		
○ Emergency lighting	120.432 184.30-5	04103
• <i>Auto-start upon failure of main power</i>		
• <i>May be individual battery powered lights if:</i>		
- <i>Auto-start</i>		
- <i>Not readily portable</i>		
- <i>Connected to battery charger</i>		
- <i>Capacity for 2 hours operation</i>		
• <i>Vessel &gt;600' with &gt;600 passengers must meet Sub J part 122</i>		

## Section 6: General Health & Safety (GH)

Action	Ref	Code
<ul style="list-style-type: none"> <li>○ Markings <ul style="list-style-type: none"> <li>• <i>"EMERGENCY EXIT, KEEP CLEAR" 2" letters</i></li> </ul> </li> </ul>	122.606	07120
<div> <div>□ Mess deck and galley spaces</div> <div> <ul style="list-style-type: none"> <li>○ Sanitary conditions <div>115.818</div> <div>MSM.70/A.6.C</div> </li></ul></div> <li>○ Cooking fuel restrictions <div>121.202</div> <div> <ul style="list-style-type: none"> <li>• <i>No gasoline, no open flames for space heating</i></li> </ul> </div> </li> <li>○ Cooking equipment requirements <div>121.220</div> <div>121.200</div> <div>ABYC A-3</div> </li> <li>○ LPG and LNG cooking systems <div>121.240</div> <div> <ul style="list-style-type: none"> <li>• <i>Remote shutoff valve (if system in enclosed space)</i></li> </ul> </div> <div>NFPA 302</div> </li> <li>○ Condition of vents and ducts <div>116.600(d)</div> <div> <ul style="list-style-type: none"> <li>• <i>Ducts above frying vats or grills constructed of &gt;11-gauge steel</i></li> </ul> </div> </li> <li>○ Structural fire protection surrounding cooking and heating appliances <div>NVIC 9-97</div> <div>Ch-1, 3.11.1</div> <div>116.415</div> </li> <li>○ Grease extraction hood <div>118.425</div> <div> <ul style="list-style-type: none"> <li>• <i>Meet UL 710 &amp; be equipped with a dry or wet chemical fire extinguishing system</i></li> </ul> </div> <div>NFPA 17/17A</div> </li> </div>	09106	09124
<div> <div>□ First aid kit</div> <div> <ul style="list-style-type: none"> <li>○ Marked "First Aid Kit"</li> <li>○ Watertight container</li> <li>○ Easily visible &amp; readily available to crew</li> <li>○ USCG Approved <div>160.041</div> <ul style="list-style-type: none"> <li>• <i>See page 59 for list of equivalent contents</i></li> </ul> </li> </ul> </div> </div>	121.710	09112
<div> <div>□ Portable lights</div> <div> <ul style="list-style-type: none"> <li>○ At least 2 onboard</li> <li>○ Located at operating station &amp; at access to propulsion machinery space</li> </ul> </div> </div>	120.430	04103
<div> <div>□ No unsafe conditions or practices exist</div> <div> <ul style="list-style-type: none"> <li>○ Slips, trips, falls</li> <li>○ Sharp edges</li> <li>○ Swinging loads/gear adrift</li> </ul> </div> </div>	115.830	09298
<div> <div>□ Hazardous items (e.g., lithium-ion batteries, including phones and cameras)</div> <div> <ul style="list-style-type: none"> <li>○ Safe handling, storage, operation</li> </ul> </div> </div>	122.364	07199
<div> <div>□ Paint locker(s)</div> <div> <ul style="list-style-type: none"> <li>○ Fixed gas fire extinguishing system <div>181.20-1</div> </li> <li>○ Space construction material <div>116.405(d)</div> <ul style="list-style-type: none"> <li>• <i>Steel or equivalent</i></li> </ul> <div>177.10-5</div> </li> <li>○ Electrical installations <div>120.530(a)</div> <ul style="list-style-type: none"> <li>• <i>Class 1 Div 1 space must be explosion proof or intrinsically safe</i></li> </ul> <div>111.105</div> </li> <li>○ Means to secure ventilation <div>116.600</div> <ul style="list-style-type: none"> <li>• <i>Power ventilation must have means of being shut down from pilot house</i></li> </ul> </li> </ul> </div> </div>	07109	07101
		02108
		09201

## Section 7: Structural Fire Protection

Action	Ref	Code
♦ ○ Spot check vessel bulkheads, doors, etc. against approved Fire Safety Plan	116.202(b) 177.10-5	07122
○ Verify boundaries are maintained	116.405	07101
○ Verify general arrangement & outfitting	NFPA 701 NVIC 9-97 Ch-1, 2.9.1	07101
○ Inspect ceilings, linings trim, interior finish & decorations <ul style="list-style-type: none"> <li>• <i>Combustible veneers may not be used in passageways, stairway enclosures or in low-risk accommodation spaces</i></li> <li>• <i>May not be used in or extend into hidden spaces such as behind linings or ceilings</i></li> </ul>	116.422 NVIC 9-97 Ch-1, 2.9.1	07101
○ Inspect doors (other than WT doors) <ul style="list-style-type: none"> <li>• <i>Within fire control boundary, must be capable of operating from either side by one-person, max width not to exceed 48"</i></li> <li>• <i>Within A-class boundary, must meet A-15 class bulkhead, latch with min throw of 0.75", no rugs or carpets allowed to pass through doorways, no double-swing doors allowed except between food prep spaces</i></li> <li>• <i>Within B-class boundary, latch with min throw of 0.375", no rugs or carpets allowed to pass through doorways, undercut must not be more than 1" above door sill.</i></li> <li>• <i>Within C-class bulkhead, must be noncombustible material.</i></li> </ul>	116.435(b)  116.435(c)  116.435(d)  116.435(e)	07105
○ Inspect balconies	116.439	07105
○ Confirm operation of draft stops <ul style="list-style-type: none"> <li>• <i>Located not more than 45' apart in horizontal direction; B-class material</i></li> </ul>	116.415(e) 116.415(f)	07115
○ Passageways/stairways only to contain fire resistant furnishings	116.423(b)	07101
○ When containing "fire resistant furnishings": <ul style="list-style-type: none"> <li>• <i>Ensure furniture meets UL 1056, CAL TB 133, or 72.05-55</i></li> <li>• <i>Draperies/curtain have been tested IAW NFPA 701</i></li> <li>• <i>Rugs do not extend more than 4" above deck</i></li> <li>• <i>Type approvals are normally not issued for domestic vsls. Test reports, manufacturer's certs should be provided by shipyard to confirm acceptability of materials</i></li> </ul>	116.423(a)  NVIC 9-97 Ch-1, 2.12.1.1	07101
○ Mattress not containing polyurethane to comply with 16 CFR 1632. Mattresses with polyurethane foam must comply with CPSC flammability standards in 16 CFR 1632/1633	116.405(j) IMO Res A.688(17)	09116
○ Wire inserted glass allowed should be less than 100in <sup>2</sup> for A-class doors, and less than 1296 in <sup>2</sup> for B-class doors (no dimension exceeding 54")	116.435(c)(10)	07105

## Section 7: Structural Fire Protection

Action	Ref	Code
<ul style="list-style-type: none"> <li>○ Ensure through-penetration fire stops are tested to the FTP Code under 164.138                             <ul style="list-style-type: none"> <li>• <i>A-class bulkhead penetrations must prevent passage of flame &amp; smoke for 1 hour</i></li> <li>• <i>B-class bulkhead penetrations must prevent passage of flame &amp; smoke for 30 mins</i></li> <li>• <i>C-class bulkhead penetrations must preserve smoke-tight integrity of boundary</i></li> </ul> </li> </ul>	NVIC 9-97 Ch-1, 2.13.1	07103
<ul style="list-style-type: none"> <li>○ Consult table 116.415(bulkheads) or table 116.415(c) (decks) for required Class construction between types of adjacent spaces</li> </ul>	116.415(b)	07103
<ul style="list-style-type: none"> <li>○ Atriums                             <ul style="list-style-type: none"> <li>• <i>Entire main vertical zone must be protected with auto sprinkler system meeting NFPA 13</i></li> <li>• <i>Contain smoke detector system</i></li> <li>• <i>Smoke extraction system, exhaust entire volume of space within 10 mins</i></li> </ul> </li> </ul>	116.440	07104



## Section 8: Lifesaving Equipment (LS)

Action	Ref	Code
♦ □ Emergency Position Indicating Radio Beacon (EPIRB) ( <i>High seas or ≥ 3NM on Great Lakes</i> )	117.64	05111
○ Registration	47-80.1061,(e),(f)	
○ Marked with vessel name	122.604(c)	
○ Stowage	117.64	
• <i>To automatically float free and activate</i>		
○ Hydro-static release expiration date	122.740	
○ Battery date	122.728(b)	
♦ □ Life jackets		
○ USCG type approval	117.71(c)	11130
○ Quantity	117.71(a)-(b)	11118
• <i>Adult lifejackets for each person on board; reqs for child size or extended sizes vary</i>		
○ Stowage	117.78	
• <i>Readily accessible &amp; distributed throughout accommodation spaces</i>		
• <i>Containers not capable of being locked &amp; when practical allow life jackets to float free</i>		
• <i>Overhead stowage allows quick release</i>		
• <i>If stowed &gt;7' above deck, release must be operable from the deck (not applicable to Old T-L vessels)</i>	117.78(a)(4)	
• <i>Container clearly marked with "Life preservers" &amp; "Child" or "Adult" and quantity</i>	122.604(f)	
• <i>Child-sized life jackets stowed separately</i>		
○ Markings	122.604(b)&(h)	
• <i>Vessel name</i>		
• <i>Retro-reflective material</i>		
○ Lights	117.75	
• <i>O/C/GL – must have USCG approved light (not required on ferries &amp; vsls that do not operate &gt; 20 NM from harbor of safe refuge)</i>		
○ Donning instructions, location & correct info	122.516	
○ Condition and suitability	115.808(d)	
• <i>Those found to not meet condition &amp; suitability should be destroyed</i>		
○ Inflatable life jackets must be serviced annually by approved facility		
○ Each life jacket fitted with a whistle (SOLAS)		
□ Personal Floatation Devices ( <i>work vests</i> ) carried in addition to lifejackets ( <i>if present</i> )		11118
○ USCG approval	117.72	
○ Serviceable condition		
○ Inflatable PFDs serviced by an approved facility annually		
○ Stowed separately and in a manner so as to not be confused with pax lifejackets	160.077	
♦ □ Ring Life Buoys		11117

## Section 8: Lifesaving Equipment (LS)

Action	Ref	Code
○ USCG type approval	117.70(b)(1) 160.050	
○ Quantity & size <ul style="list-style-type: none"> <li>• <math>\leq 26' \rightarrow 1 \times 20''</math></li> <li>• <math>26' &lt; X \leq 65' \rightarrow 1 \times 24''</math></li> <li>• <math>&gt; 65' \rightarrow 3 \times 24''</math></li> </ul>	117.70(a)	
○ Stowage <ul style="list-style-type: none"> <li>• <i>Rapidly cast loose</i></li> <li>• <i>Not permanently secured</i></li> </ul>	117.70(b)	
○ Lifeline <ul style="list-style-type: none"> <li>• <i>At least 1 fitted with lifeline, if &gt; 1 at least one not fitted with lifeline)</i></li> <li>• <i>Buoyant</i></li> <li>• <math>\geq 60'</math></li> <li>• <i>Non-kinking</i></li> <li>• <i>Dark color if synthetic, or resistant to UV light</i></li> </ul>	117.70(c)	
○ Waterlight <ul style="list-style-type: none"> <li>• <i>Not required when limited to daytime operations</i></li> <li>• <math>\geq 1</math> floating waterlight</li> <li>• <i>3ft-6ft lanyard secured around the body of LB</i></li> <li>• <i>If only one, attached to lanyard w/ corrosion resistant clip</i></li> <li>• <i>Verify batteries</i></li> </ul>	117.70(d) 161.010	
○ Markings <ul style="list-style-type: none"> <li>• <i>O/C – orange</i></li> <li>• <i>GL/ LC / LBS / R can be white</i></li> <li>• <i>Vessel name in block capital letters</i></li> <li>• <i>Retro-reflective tape</i></li> </ul>	122.604 117.70(b) 160.050-3(b) & .050-6 117.70	
○ Condition and suitability	115.808(d)	
<b>◆ □ Inflatable liferaft &amp; inflatable buoyant apparatus installations</b>		
○ USCG type approval	160 series	11130
Quantity ( <i>route dependent, always verify with Table 117.200(c)</i> )	117.200(a)(1) & (3)	11108/2 7
○ Stowage <ul style="list-style-type: none"> <li>• <i>Secured to vsl by a painter with a float-free link permanently attached to the vsl</i></li> <li>• <i>Floats free and inflates automatically</i></li> <li>• <i>Readily accessible to crew for quick launch</i></li> <li>• <i>Fully equipped as required IAW 117.175 (b)&amp;(c)</i></li> <li>• <i>Sheltered from breaking seas and fire damage</i></li> <li>• <i>Stowed to prevent shifting</i></li> </ul>	117.200(c) Table 117.130(a)(2) 117.130(a)(3)	11108/2 7
○ Markings <ul style="list-style-type: none"> <li>• <i>Vessel Name</i></li> <li>• <i>Port of registry</i></li> </ul>	160.151-33	11108/2 7
○ Annual service dates <ul style="list-style-type: none"> <li>• <i>Every 12 months, may be delayed 5 months</i></li> <li>• <i>Immediately if container is damaged or seals or straps are broken</i></li> </ul>	122.730(a)	11135
○ Emergency instructions are posted	122.510	11131

## Section 8: Lifesaving Equipment (LS)

Action	Ref	Code
	122.518	
○ CG approved embarkation ladder ( <i>required when embarkation station is &gt;10' from lightest operating waterline</i> )	117.150(b)	11130
○ Servicing/expiration of hydrostatic release	122.740	11130
○ Hydrostatic release installed correctly		
◆ □ Lifeboat & Buoyant Apparatus installations (when present)		11108/27
○ USCG type approval	117.200(a)(2)	11130
Quantity ( <i>route dependent</i> )	117.200(c) Table	11108/27
○ Stowage	117.137	11108/27
<ul style="list-style-type: none"> <li>• <i>Secured with CG approved weak link that is of proper strength for the capacity of the survival craft &amp; that is attached at one end to the painter and the other end to the vessel</i></li> <li>• <i>Means to secure weak link to vessel must have a breaking strength at least equal to strength of painter; of synthetic be dark colored or UV resistant; and if metal, be corrosion resistant</i></li> <li>• <i>If painter attachment fitting is not provided , a means to attach the painter must be provided by a wire or line that encircles the device's body; will not slip off; has breaking strength ≥ that of the painter; and is dark colored or UV resistant</i></li> <li>• <i>If a single painter is used for ≥ 2 life floats/buoyant apparatus, ensure that:</i> <ul style="list-style-type: none"> <li>▪ <i>The total weight of the devices does not exceed 400lb</i></li> <li>▪ <i>Each device is attached to the painter with a line long enough (and of differing lengths) to ensure devices can float without contacting one another and that each device can be launched independently of the others</i></li> <li>▪ <i>The strength of the weak link and the breaking strength of the painter is determined by the combined capacity of the devices attached to that painter</i></li> <li>▪ <i>If stowed in tiers, ensure tiers are NOT MORE than 4ft high and that spacers are used between devices (spacer material is not specified)</i></li> </ul> </li> </ul>		
○ Markings	122.604(a)	11108/27
<ul style="list-style-type: none"> <li>• <i>Vessel name</i></li> <li>• <i>Capacity</i></li> <li>• <i>Retro-reflective tape</i></li> </ul>	160.010-8	
Embarkation ladder ( <i>required when embarkation station is &gt; 10ft from lightest operating waterline</i> )	117.150(b)	11130
○ Required equipment	117.175(d), (e) & 117.175(f)	11110
<ul style="list-style-type: none"> <li>• <i>Lifeline and pendants (as furnished by</i></li> </ul>		

## Section 8: Lifesaving Equipment (LS)

Action	Ref	Code
<i>manufacturer, replacements must meet 160.10)</i> <ul style="list-style-type: none"> <li>• Paddle (≥ 4ft long lashed to LF/BA &amp; buoyant)</li> <li>• Painter (≥ 100ft, not &lt; 3x's distance between stowed deck &amp; waterline; breaking strength of ≥1,500lb unless capacity is ≥ 50 ppl, then ≥ 3,000lb)</li> <li>• Light (Waterlight, attached around body of LF/BA with a UV resistant 3/8in lanyard, ≥ 18ft)</li> </ul>		
○ Emergency instructions are posted	122.512(a)(1)(ix)	11131
◆ □ Rescue boat		
○ All vsIs must carry at least one rescue boat unless OCMI determines:	117.210(a) 180.10-35	11104
<ul style="list-style-type: none"> <li>• Sufficiently maneuverable, arranged &amp; equipped to allow the crew to recover a helpless person from the water</li> <li>• Recovery of a helpless person can be observed from the operating station; and</li> <li>• Not regularly engaged in ops that restrict maneuverability</li> </ul>		
○ USCG type approval ( <i>protected waters 160.056, exposed or partially protected waters 160.156</i> )	117.210(c) 160.056 160.156	11130
○ Stowage	117.130 122.700	11104
<ul style="list-style-type: none"> <li>• Deck where stowed or boarded must be kept clear of obstructions that would interfere with boarding and launching craft</li> <li>• Stowed to prevent shifting</li> <li>• Sheltered, as far as practicable, from breaking seas and fire damage</li> <li>• Ready for immediate use by crew</li> </ul>		
○ Markings	122.604(i)	11104
<ul style="list-style-type: none"> <li>• Vessel name (each side of bow)</li> <li>• Capacity (each side of bow)</li> <li>• Retro-reflective tape</li> <li>• Information plate</li> </ul>		
○ Required equipment	160.056-3(b)	11104
<ul style="list-style-type: none"> <li>• Pair of oars &amp; painter ≥ 3/8" &amp; ≥ 30'</li> <li>• SOLAS requirements for rescue boats</li> </ul>		
○ Condition		11104
<ul style="list-style-type: none"> <li>• Small, lightweight boat with built-in buoyancy</li> <li>• Capable of being readily launched</li> <li>• Easily maneuvered</li> <li>• Of adequate proportion to take an unconscious person onboard without capsizing</li> <li>• Good working order, ready for immediate use</li> </ul>		
○ Adequate means are provided for transferring a victim from a rescue boat or platform to the deck of the vsl ( <i>during MOB drill</i> )	122.700 117.210(c) 180.10-35	11104
○ Embarkation ladder ( <i>required when embarkation station is &gt;10' from lightest operating waterline</i> )	117.150(b)	11130
◆ □ Launching appliance(s)	115.808 117.130(c)	11112/3

## Section 8: Lifesaving Equipment (LS)

Action	Ref	Code
<ul style="list-style-type: none"> <li>○ Materiel condition <ul style="list-style-type: none"> <li>• <i>Wastage, cracks, structural damage, blocks, fasteners, etc.</i></li> </ul> </li> </ul>	117.150(c)	
○ Falls have been renewed at least every 5 years or when deteriorated	122.704	
○ Falls have been end-for-ended at least every 30 months ( <i>SOLAS does not allow end for end; falls are replaced every 5 years</i> )	122.704	
○ Automatic disengaging apparatus functions correctly	117.150(c)	
○ Operating instructions are posted	122.512(a)(1)(ix)	

## Section 9: Firefighting System (FF)

Action	Ref	Code
<ul style="list-style-type: none"> <li>◆ □ Fire main and pump (<i>Piping must be ferrous metallic piping meeting 56.60</i>) <ul style="list-style-type: none"> <li>○ Capable of providing adequate pressure <ul style="list-style-type: none"> <li>• <i>Vessel &gt;600 pax or ≥49 Overnight – two highest outlets must have pitot tube pressure &gt;345 kPA [50 psi]</i> 118.300(b) 76.10-5</li> <li>• <i>Vessel with &lt;49 Overnight - highest hydrant must have pitot tube pressure &gt;345 kPA [50 psi]</i> 118.300(b)</li> <li>• <i>Old T-L – 50 gpm at 60 psi at pump outlet</i> 181.10-1(c)</li> </ul> </li> <li>○ Self-priming &amp; power driven <ul style="list-style-type: none"> <li>• <i>May be connected to bilge system to meet 119.520</i> 118.300(d)</li> <li>• <i>Old T-L required to have additional hand fire pump</i> 181.10-1(e) 181.10-5</li> </ul> </li> <li>○ Fitted with discharge-side pressure gauge <ul style="list-style-type: none"> <li>• <i>Vessel &gt;600 pax or ≥49 Overnight</i> 118.300(b) 76.10-5</li> <li>• <i>All Old T-L</i> 181.10-1(c)</li> </ul> </li> <li>○ Location of controls and markings <ul style="list-style-type: none"> <li>• <i>Main operating station and local</i> 118.300(e)</li> </ul> </li> <li>○ Operation of fire pump from remote control(s) 118.300(e)</li> <li>○ Materiel condition of system <ul style="list-style-type: none"> <li>• <i>No excessive leaking</i> 119.710</li> <li>• <i>Vessel &gt;600 pax or ≥49 Overnight – main and hydrants must meet 76.10-10</i> 118.310</li> </ul> </li> </ul> </li> </ul>		07110/3
<ul style="list-style-type: none"> <li>◆ □ Fire stations <ul style="list-style-type: none"> <li>○ A fire hose with a nozzle must be attached to each fire hydrant at all time 118.320(a) 181.15-10(g)</li> <li>○ Number of hydrants <ul style="list-style-type: none"> <li>• <i>A vsl must have a sufficient number of fire hydrants to reach any part of the vsl using a single length of hose.</i> 118.310(a)</li> <li>• <i>Old T-L – At least 2 stations, sufficient number to reach any part with single length of hose.</i> 181.15-5</li> </ul> </li> <li>○ Hoses meet required length, size, markings and quantity <ul style="list-style-type: none"> <li>• <i>UL 19 or equivalent (IBR 114.600)</i> 118.320(b)</li> <li>• <i>50 ft length, 1.5" diameter,</i> CVC PL 18-04</li> <li>• <i>Fittings of brass or other suitable (corrosion resistant) material (NFPA 1963); Nozzle must be approved under 46 CFR 162.027 or type recognized by Commandant.</i> 118.320(c)</li> <li>• <i>Old T-L – hose must be 50' length and 1.5" diameter; UL 19 Standard</i></li> </ul> </li> <li>○ Operation of valves at fire stations <ul style="list-style-type: none"> <li>• <i>Each hydrant must have a valve to allow the hose to be removed while fire main is under pressure.</i> 181.15-10(c) 118.310(c)</li> </ul> </li> </ul> </li> </ul>		07110/3
<ul style="list-style-type: none"> <li>◆ □ Portable fire extinguishers <ul style="list-style-type: none"> <li>○ Location and stowage 118.500</li> </ul> </li> </ul>		07110

## Section 9: Firefighting System (FF)

Action	Ref	Code
<ul style="list-style-type: none"> <li>Clearly visible, readily accessible from space being protected to the satisfaction of the OCMI</li> </ul>	118.520 181.30 / 118.500	
○ Servicing compliance	115.810	
<ul style="list-style-type: none"> <li>Annual service IAW NFPA 10; Hydrostatic test every 5 years; Testing or renewal of flexible connections/hoses (46 CFR 147.65)</li> </ul>	NFPA 10 Ch 4,7,8	
○ Condition of cylinder(s) and hose(s)	115.810	
<ul style="list-style-type: none"> <li>No excessive corrosion</li> </ul>	NFPA 10 Ch 7	
○ Presence of required type & quantity	118.500(b)	
<ul style="list-style-type: none"> <li>Vehicle deck without fixed sprinkler must have 1 B-40 for every 10 vehicles</li> </ul>	Table 118.500(c) CVC PL 18-04	
◆ □ Semi-portable firefighting equipment		07110
○ Location and stowage	118.500	
<ul style="list-style-type: none"> <li>Clearly visible, readily accessible from space being protected to the satisfaction of the OCMI.</li> <li>Frame/support for each must be weld or permanently attached to deck or bulkhead.</li> </ul>	118.520 181.30-12 / 118.500	
○ Servicing compliance	118.500(d)	
<ul style="list-style-type: none"> <li>Annual service IAW NFPA 10; Hydrostatic test every 5 years; Testing or renewal of flexible connections/hoses</li> </ul>	115.810 NFPA 10 Ch 4,7,8	
○ Condition of cylinder(s) and hose(s)	114.600	
○ Presence of required type & quantity	115.810 NFPA 10 Ch 7 118.500(b)&(c) CVC PL 18-04	
□ Fire axe(s)	118.600	07110
<ul style="list-style-type: none"> <li>Vessels &gt; 65' must have at least one fire axe located in or adjacent to the primary operating station</li> </ul>		
◆ □ Fixed fire extinguishing systems	118.400(a) 181.20-1	07109
○ Safety precautions are implemented prior to servicing system	NVIC 3-95 118.410(a) MSM.72/C.2.1.5 181.20-1	
○ Required spaces fitted with an approved fixed gas system or alternative system	118.400 181.20-1	07109
<ul style="list-style-type: none"> <li>Propulsion machinery space</li> <li>A space containing an internal combustion engine &gt; 50 hp</li> <li>Space containing oil-fired boiler</li> <li>Space containing combustible cargo or stores, inaccessible during voyage</li> <li>A paint locker</li> <li>A storeroom containing flammable liquids (including liquors of 80 proof or more, packed in individual containers ≥ 2.5 gal)</li> <li>Alternative system types &amp; exceptions to the requirements</li> </ul>		
○ Servicing compliance	115.810(a)(5) 147.60-67	

## Section 9: Firefighting System (FF)

Action	Ref	Code
○ Cylinders are weighed annually	115.810(a)(5) 147.60-67	
○ Cylinders are hydrostatically tested	115.810(a)(5) 147.60-67	
• <i>Fixed CO2 every 12 years – date stamped on bottle</i>		
○ Testing or renewal of flexible connections/hoses	115.810(a)(6) 147.60-67	
○ Odorizing unit (CO2 installed or “altered” after 9 July, 2013)	118.410(h)	
○ Stowage of cylinders	118.410(c)	
• <i>Stowed outside space protected by system.</i>		
○ Must have manual ventilation closures on protected space	118.410	
○ Material condition of system components		
• <i>Controls and valves must be located outside the protected space</i>	118.410(b)	
• <i>Must have remote controls in a break glass enclosure</i>		
• <i>Must have manual controls at the storage cylinders.</i>		
	118.410(c)	
○ Piping and nozzles are clear	115.810(b)	
○ Operational test of time delays, alarms and shutdowns	115.810(b)	
○ Markings and warning signs are posted	122.612	
○ Operating instructions are posted	122.612	
○ Enclosed vehicle space	118.410(g)	07109
• <i>Must be fitted w/ an automatic sprinkler system that meets 46 CFR 76</i>		
○ Partially enclosed vehicle spaces	118.410(h)	
• <i>must be fitted with a manual sprinkler system that meets 46 CFR 76</i>		
◆ □ Pre-engineered fixed gas fire extinguishing systems (when applicable under – 46 CFR 118.400(b)(2))		07109
○ Determine if approved	118.420(a)(1) 118.420(c)	
• <i>Only one pre-engineered system per protected space.</i>		
○ Presence of manual actuation from outside of the space	118.420(a)(2)	
○ Presence of automatic actuator (heat detector)	118.420(a)(2)	
○ Witness system automatically shuts down power ventilation systems and engines that draw intake air from within protected space	118.420(a)(3)	07116
○ System is installed per manufacturer's instructions	118.420(a)(4) Manufacturer's Inst.	07109
○ Servicing requirements	115.810(b)(2)	07124
○ Operation of following from the operating station:	118.420(b)(1) 118.420(b)(2) 118.420(b)(3)	07109
• <i>Discharge indicating light</i>		
• <i>Discharge audible alarm</i>		



## Section 9: Firefighting System (FF)

Action	Ref	Code
<ul style="list-style-type: none"> <li><i>Means to reset automatically shut down ventilation systems and engines as required</i></li> </ul>		
♦ □ Fire and smoke detection systems	118.400 <i>181.05-5</i>	07106
○ Appropriate spaces are equipped	118.400(c)	
<ul style="list-style-type: none"> <li><i>Propulsion machinery space</i></li> <li><i>Space containing internal combustion engine &gt; 50hp</i></li> <li><i>Space containing oil-fired boiler</i></li> <li><i>Accommodation space, control space and service space – except for continuously manned stations</i></li> <li><i>An enclosed vehicle space must be fitted with a fire detection and alarm system of an approved type installed per 46 CFR 76 &amp; must be fitted with a smoke detection system that meets 46 CFR 76</i></li> <li><i>INTERCONNECTED SMOKE DETECTORS in all enclosed areas routinely occupied by pax or crew</i></li> </ul>	118.400(e) 118.400(g) 118.400(d)	
○ Witness system test	115.810(a)(7) 76.27-5 76.27-10	
○ Operation of control unit's visual and audible alarms (if applicable)	115.810(a)(7)	07106
○ Zoning (if present)	118.400(c) 76.27-30	
○ Location and spacing of detectors	118.400(c) 76.27-15 76.27-35	

## Section 10: Machinery & Auxiliary Machinery (MI)

Action	Ref	Code
□ Steering gear		
○ Electrical, mechanical, and hydraulic connections and linkages of main and auxiliary (emer.) systems found in subchapters F & J.	115.814 119.600 <i>182.30-1</i>	02105
• <i>Main steering gear and rudder from 35 degrees to 30 degrees in under 28 secs</i>	58.25-10(b)(2)	
• <i>Auxiliary steering gear capable of moving rudder from 15 degrees to 15 degrees in not more than 60 secs</i>	58-25-10(c)(2)	
○ Operation of sound-powered telephone system between bridge and steering gear compartment	58.25-15	04106
○ Witness operational test of systems, in all modes of operation from emergency steering station(s)	115.814	02105
○ Accuracy of rudder angle indicator, ensure alignment with mechanical rudder angle indicator	113.40-10 MSM.72/C.4.C.4	
♦♦ ○ Witness operational test of auxiliary (emergency) steering arrangement	115.814	
○ Ensure all vital connections, pins, couplings have securing devices	MSM.72/ C.4.B.1.e	
○ Examine rudder post, packing, and tiller for excessive wear and leakage		
○ Emergency power to support loads for steering gear failure alarms required by 113.43 and rudder angle indicators	112.05-5 112.15-5(h) 112.15-5(p)	
□ Fuel oil service system		13199
• <i>Gasoline prohibition except for outboard engines.</i>	119.405	
○ Installation, arrangement & condition of piping, manifolds & filters	119.435 119.440 119.455 <i>182.20-22</i> <i>182.20-25</i>	13199
• <i>All independent fuel tanks are electrically bonded to a common ground</i>		
• <i>Means to accurately determine amount of fuel in each tank</i>		
• <i>Each tank is fitted with an appropriately sized vent pipe connected to its highest point</i>	119.450 <i>182.20-35</i>	
• <i>Approved piping (material &amp; size) is used in the fuel oil service system</i>	<i>119.455(a)</i> <i>182.20-40</i>	
• <i>Shutoff valves fitted at tank connection (remote emergency fuel shutoff valve; if located in machinery space, ≤ 12" w/in the space and shielded from flames) &amp; engine end of fuel line</i>	<i>119.455(b)(3)</i> <i>182.20-40(b)(3)</i>	
• <i>Suitable metal marine type strainer fitted in the engine compartment. Drip pan fitted w/ flame screen must be installed under gasoline strainers.</i>	<i>119.455(b)(5)</i> <i>182.20-40(b)(5)</i>	
○ Portable fuel system	119.458 ABYC H-25	13199
• <i>Only permitted for portable dewatering pumps or outboard motor installations</i>		
○ Witness tests of remote shutdown(s)	115.840	

## Section 10: Machinery & Auxiliary Machinery (MI)

Action	Ref	Code
<ul style="list-style-type: none"> <li>Nonmetallic flexible hoses and fittings                             <ul style="list-style-type: none"> <li><i>Double hose clamps, lengths permitted, approved standards</i></li> </ul> </li> </ul>	119.455 56.60-25	
<input type="checkbox"/> Main propulsion system(s)		13101
<ul style="list-style-type: none"> <li>Condition, installation and arrangements of system components                             <ul style="list-style-type: none"> <li><i>Must meet requirements of Subchapter F &amp; Subchapter J</i></li> <li><i>Water cooled or meets exceptions for air cooling</i></li> <li><i>All engines must have at least 2 means of stopping the engine (the F/O shutoff at the engine will satisfy one means)</i></li> <li><i>Reliable means of shutting down a propulsion engine at the main pilothouse control station</i></li> </ul> </li> </ul>	119.200 119.220 182.20-1 119.310  119.420 182.20-10 119.200(b)  121.620(b) 175.10-29	13108
<ul style="list-style-type: none"> <li>Foundations for structural integrity</li> </ul>	115.804 MSM.71/B.1.F	13101
<ul style="list-style-type: none"> <li>Installation of protective covers or guards over exposed gears, belts or other rotating machinery</li> </ul>	115.830	09233
<ul style="list-style-type: none"> <li>System hull penetrations for structural integrity                             <ul style="list-style-type: none"> <li><i>Keel coolers are fitted with a shutoff valve where the cooler penetrates the hull (not required for integral coolers)</i></li> <li><i>All piping outside of shutoff valve is at least schedule 80, any flexible hoses used at machinery connections is approved and double hose clamped</i></li> </ul> </li> </ul>	119.422 182.20-10 119.422(b)  119.422(c)	03199
<ul style="list-style-type: none"> <li>Operational test of main propulsion machinery                             <ul style="list-style-type: none"> <li><i>Proper function of following gauge at the operation station:</i>  <i>Engine RPM</i>  <i>Jacket water temp</i>  <i>Lube oil pressure gauges</i>  <i>RPM not required for Old T-L</i> </li> </ul> </li> </ul>	115.804(a) 119.410(b) 182.20-5	13108
<input type="checkbox"/> Novel systems should be inspected to the Design Basis Agreement approved by the USCG prior to installation of the novel system.	114.540	13199
<input type="checkbox"/> Unfired pressure vessels (UPVs)	119.330	13199
<ul style="list-style-type: none"> <li>Data plate(s) are legible</li> <li>Determine if UPV is exempt from inspection</li> <li>External exam, internal exam and/or hydrostatic test needs</li> <li>External (5 yrs)</li> <li>Internal (5 yrs when accessible)</li> <li>Witness hydrostatic test (if needed)</li> <li>(1.25 MAWP)</li> </ul>	54.10-20 119.330 54.01-15 115.812 61.10-5(b) 61.10-5(d)&(e) 61.10-5(b)(1) 61.10-5(b)(2) 54.01-35 MSM.71/B.1.O.4 61.10-5(d) 61.10-5(e)(4)	

## Section 10: Machinery & Auxiliary Machinery (MI)

Action	Ref	Code
<ul style="list-style-type: none"> <li>○ Installation &amp; operation of pressure-relieving devices <ul style="list-style-type: none"> <li>• <i>Twice in 5 yrs, no more than 3 yrs between tests; relieves at a pressure ≤ 10% above or below the valve's marked pressure</i></li> </ul> </li> <li>○ Pressure-relieving device setting does not exceed the UPV's MAWP</li> </ul>	54.15-5(f)  54.15-5 61.10-5(i) 54.15-10(a)&(g)	
□ Potable water system		09130
<ul style="list-style-type: none"> <li>○ Tank vents are fitted with insect screens</li> <li>○ Operation of water pump(s) and pressurization system</li> <li>○ Pressurization system is fitted with safety relief valve(s)</li> <li>○ Installation and arrangement of piping and valves</li> <li>○ Water heaters comply with Parts 53 &amp; 63 EXCEPT: <ul style="list-style-type: none"> <li>• <i>Electric water heaters rated at not more than 100 psi and 250 °F are acceptable if:</i></li> <li>• <i>Capacity ≤ 120 gallons;</i></li> <li>• <i>Heat input ≤ 200,000 Btu/hour;</i></li> <li>• <i>UL listed (174 or 1453); AND</i></li> <li>• <i>Protected by pressure-temperature relief device</i></li> </ul> </li> <li>○ Water heater must be installed &amp; secured from rolling by straps or other devices</li> </ul>	21-1250.82(c) MSM.70/ A.6.C.2.a 21-1250.84(a) 54.01-15(a) 53.05-2 21-1250.82  119.320  119.320(c)	
♦ □ Bilge system	115.804(h)	13104
<ul style="list-style-type: none"> <li>○ Verify location and operation of pump(s) <ul style="list-style-type: none"> <li>• <i>Must comply with required pumps listed in table 56.50-55(a)</i></li> <li>• <i>Emergency bilge pump shall not be fwd of collision bulkhead</i></li> <li>• <i>If &lt;65 feet, must have a portable hand bilge pump or second power pump with source independent of first power bilge pump.</i></li> </ul> </li> <li>○ Manifolds, valves and piping <ul style="list-style-type: none"> <li>• <i>Capable of operation under all practicable conditions whether listed or upright</i></li> <li>• <i>Each bilge suction must lead from a manifold</i></li> <li>• <i>Formula used to meet required internal diameter of bilge suction pipes in 56.50-50(d)</i></li> <li>• <i>&gt;150 GT: main piping not less than 2.5" ID</i></li> <li>• <i>≤65' pipe: size must be greater than 1" nominal</i></li> <li>• <i>Bilge suction will be fitted with a suitable strainer with an open area ≥ 3Xs the area of the bilge pipe</i></li> </ul> </li> <li>○ Visual &amp; audible alarm at the operating station to indicate a high-water level in each of the normally unmanned spaces</li> <li>○ Visual indicator at operating station when any automatic bilge pump is operating</li> <li>○ Witness bilge system operational test</li> </ul>	182.25-10 119.520(c)  56.50-55(e)(3)  119.520(b)  56.50-50(a) 182.25-5 182.40-5(b) 56.50-50(c)(1) 56.50-50(d)(3) 56.50-50(d)(4) 56.50-50(g)  119.530(a)  119.530(b)  115.804(h)	

## Section 10: Machinery & Auxiliary Machinery (MI)

Action	Ref	Code
○ Pollution placard is posted (when applicable)	33-155.450	14502
□ Exhaust system(s) (wet & dry)	115.804(c)	13199
○ Condition	119.425	
• <i>As an alternative, vessels may comply with ABYC P-1</i>	119.430	
○ Dry Exhaust systems	119.425(c)	
• <i>Exhaust pipes are clear of &amp; suitably insulated from combustible materials and suitably insulated to prevent injuries</i>	116.405(b)	
• <i>Horizontal dry exhaust pipes:</i>	177.10-5(b)	
-Do not pass through living or berthing areas	116.970	
-Terminate above the deepest load waterline	119.425(a)(2)	
-Are arranged to prevent entry of cold water from rough or boarding seas	182.20-15	
-Are constructed of corrosion-resisting material at the hull penetration	182.20-20	
○ Exhaust systems cooled by water	182.15-15	
• <i>Are provided with cooling water from engine cooling system or from a separate engine driven pump</i>	182.15-20	
• <i>Fitted so cooling water is injected into the exhaust system as close as possible to the engine exhaust manifold and so water passes through the entire length of the exhaust pipe</i>	119.425(b)	13199
• <i>Fitted with insulation or water jacketed between the exhaust manifold and the point of cooling water injection and if a vertical exhaust pipe, to ensure no water is mixed with exhaust gasses</i>	119.425(b)(2)	
• <i>Provided a suitable warning device, visual or audible, at the operation station to indicate any reduction in water flow when cooling water provided from source other than engine cooling system</i>	182.15-15(b)(2)	
• <i>Provided with a suitable strainer in the intake line.</i>	119.425(b)(3)	
	182.15-15(b)(3)	
	119.425(b)(5)	
	182.15-15(b)(5)	
	119.425(b)(6)	
	182.15-15(b)(6)	
□ Auxiliary boiler(s) (when present)	115.812(b)	13199
○ Maximum allowable working pressure (MAWP)	54.10-20	
○ Inspect internally	61.05-10 Table	
○ Mounts	61.05-15(a)-(d)	
	61.05-10 Table	
○ Columns, gauge glasses and gauge cocks	61.05-15(e)	
○ Steam gauge	61.05-15(f)	
○ Safety valves	61.05-10 Table	
○ Operation of safety relief valves	115.704	
• <i>Twice in 5 yrs, no more than 3 yrs between tests; relieves at a pressure ≤ 10% above or below the valve's marked pressure</i>	61.05-10 Table	
	61.05-20	
○ Pressure-relieving device setting does not exceed the MAWP & the device does not relieve at a pressure greater than the MAWP	54.15-10	

## Section 11: Electrical Systems Inspection (ES)

Action	Ref	Code
<input type="checkbox"/> Switchboard(s) & distribution panel(s)		02108
<input type="checkbox"/> Location, condition and installation <ul style="list-style-type: none"> <li><i>Dry, adequately ventilated</i></li> <li><i>Totally enclosed</i></li> <li><i>With drip shield</i></li> <li><i>Dead front type</i></li> </ul>	120.330(a)-(e) 120.330(i) 183.10-10 183.10-15(b)	
<input type="checkbox"/> Non-conductive handrail & matting or grating on deck	120.200(b) 120.330(f) 183.01-15(a)	
<input type="checkbox"/> Blanks installed (if needed)	120.330(e)	
<input type="checkbox"/> Working area around main switchboards	120.330(j) 183.10-15(c)	
<input type="checkbox"/> Sized correctly	120.340 111.30-19(a)	
<input type="checkbox"/> Overcurrent protection	120.380 183.10-35 & 40	
<input type="checkbox"/> Circuit directory/labeling (distribution panels)	120.220(d)	
<input type="checkbox"/> Shore connection ≥ 50V <ul style="list-style-type: none"> <li><i>Box/receptacle shall be permanently installed</i></li> </ul>	120.390	
<input type="checkbox"/> Multiple generator interlock (switchboard)	183.10-50 120.322	
<input type="checkbox"/> Main service generator(s) & prime mover(s)		13102
<input type="checkbox"/> Power source(s) requirements <ul style="list-style-type: none"> <li><i>Must have two sources of power for Vital systems IAW 119.710</i></li> </ul>	120.310(a)	
<input type="checkbox"/> Condition of generator(s) & prime mover(s)' components <ul style="list-style-type: none"> <li><i>Accessible as possible</i></li> <li><i>Adequately ventilated</i></li> <li><i>Dry as practicable</i></li> <li><i>Mounted above bilges</i></li> <li><i>Drip proof</i></li> </ul>	120.320 120.322 120.324 183.10-5	
<input type="checkbox"/> Installation of protective covers or guards	116.960 177.35-15	
<input type="checkbox"/> Generator(s) nameplates are attached	120.320(d)	
<input type="checkbox"/> Required gauges <ul style="list-style-type: none"> <li><i>If ≥ 50 Volts, voltmeter &amp; ammeter, for AC generators way to measure frequency must also be provided</i></li> </ul>	120.320(c) 183.10-5(g)	
<input type="checkbox"/> Protected by overcurrent device	120.320(f) 183.05-10(d)	
<input type="checkbox"/> Reverse Power Relay (for parallel ops)	120.322	
<input type="checkbox"/> Lighting systems		09203
<input type="checkbox"/> Light fixtures <ul style="list-style-type: none"> <li><i>Globe, lens, or diffuser must have a guard or be made of high strength material except: in accommodation space, radio room, galley or similar space</i></li> <li><i>Comply with 120.200, UL 595 &amp; series 1570</i></li> </ul>	120.410 183.10-20(l)	
<input type="checkbox"/> Presence of portable lights <ul style="list-style-type: none"> <li><i>At least 2 onboard; flashlights count</i></li> <li><i>Located at operating station &amp; at access to</i></li> </ul>	120.430 UL1570	04103

## Section 11: Electrical Systems Inspection (ES)

Action		Ref	Code
♦♦	<ul style="list-style-type: none"> <li>o <i>propulsion machinery space</i> Emergency lighting operational test                             <ul style="list-style-type: none"> <li>• <i>Adequate fitted along line of escape to main deck from pax &amp; crew accommodation spaces located below main deck</i></li> <li>• <i>Automatically actuate upon failure of main lighting system</i></li> <li>• <i>If not equipped with single source of emergency power for emergency lighting, must have individual battery powered lights that:</i></li> <li>• <i>Automatically actuate upon loss of normal power</i></li> <li>• <i>Are not readily portable</i></li> <li>• <i>Are connected to an automatic battery charger; and</i></li> <li>• <i>Have sufficient capacity for ≥ 2 hours of continuous operation</i></li> <li>• <i>&gt;65' &amp; 600 pax OR &gt;49 Overnight – Emergency lighting must meet Sub J Part 112</i></li> </ul> </li> </ul>	120.432 184.30-5	04103
	o Overcurrent protection	120.380 UL 489	09209
□ Battery installation		120.350 183.05-20	02108
o Battery category <ul style="list-style-type: none"> <li>• <i>Large (Charger output &gt; 2 kw)</i></li> <li>• <i>Small (Charger output ≤ 2 kw)</i></li> </ul>		120.352	
o Ventilation <ul style="list-style-type: none"> <li>• <i>Large (provided IAW 111.15-10)</i></li> <li>• <i>Small (located in a well-ventilated space)</i></li> </ul>		111.15-10 120.350(a) 120.354	
o Properly installed and secured <ul style="list-style-type: none"> <li>• <i>Located as high above bilge as practicable &amp; secured</i></li> <li>• <i>Large (in a locker, room or enclosed box solely dedicated to the storage of batteries; electrical equipment located within enclosure must be approved for Class I, Div I space)</i></li> <li>• <i>Small (Protected from falling objects; must not be in a closet, storeroom or similar space)</i></li> </ul>		120.350(b) 120.354	
o Space for maintenance and removal		120.350(c)	
o Ammeter connected in the charging circuit		120.350(f)	
o Proper ventilation of charger <ul style="list-style-type: none"> <li>• <i>When charging batteries, must have natural or induced ventilation to disperse gasses</i></li> </ul>		120.350(a)	
o Connections to battery terminals are permanent type connectors		120.350(d)	
□ Lithium Ion (Li-ion) battery installations			02108
o As propulsion or electrical power source <ul style="list-style-type: none"> <li>• <i>Conduct testing IAW approved PSTP</i></li> </ul>		CG-ENG PL 02-19	
o Other Li-ion batteries: <ul style="list-style-type: none"> <li>• <i>Storage location dry &amp; cool</i></li> <li>• <i>Charged in occupied/monitored spaces</i></li> <li>• <i>Inspect for damage, cracking, swelling</i></li> <li>• <i>Assess crew firefighting competency</i></li> </ul>		CG-CVC PL 20-03 122.364	
□ Electrical cable & fixtures		183.05-45 & 50	

## Section 11: Electrical Systems Inspection (ES)

Action	Ref	Code
<ul style="list-style-type: none"> <li>○ Supports for vertical &amp; horizontal installations (metal supports spaced no more than 24" and in such a manner as to avoid chafing and other damage)                             <ul style="list-style-type: none"> <li>• <i>Plastic tie wraps may be used for bundling NOT as a means of support</i></li> </ul> </li> <li>○ No sharp radius of bends</li> <li>○ No hazardous conditions exist (for hazardous area installations see next task)                             <ul style="list-style-type: none"> <li>• <i>Protect pax, crew, other persons and the vessel from electrical hazards including fire caused by or originating in electrical equipment, and electrical shock</i></li> <li>• <i>Protection from wet and corrosive environments</i></li> </ul> </li> <li>○ Cable size and condition                             <ul style="list-style-type: none"> <li>• <i>Individual wires, rather than cable are used in systems &gt; 50V, the wire must be in conduit</i></li> <li>• <i>All cable &amp; wire must have stranded copper conductors with sufficient current carrying capacity for the circuit in which they are used</i></li> <li>• <i>Conductors in power &amp; lighting circuits must be ≥ 14 AWG</i></li> <li>• <i>Conductors in control &amp; indicator circuits must be ≥ 22 AWG</i></li> </ul> </li> <li>○ Condition of outlets</li> <li>○ Connection types</li> </ul>	<div>183.10-20</div> <div>120.340(b)(4)</div> <div>120.340(b)(5)</div> <div>120.200-220</div> <div>120.340</div> <div>183.05-45</div> <div>120.340(g)</div> <div>120.340(h)</div>	<div>02108</div> <div>09109</div> <div>02108</div> <div>02108</div> <div>02108</div> <div>02108</div>
<ul style="list-style-type: none"> <li>□ Components installed in designated hazardous areas                             <ul style="list-style-type: none"> <li>○ Hazardous area(s)                                     <ul style="list-style-type: none"> <li>• <i>Spaces containing machinery powered by, or fuel tanks for, gasoline or other fuels having a flashpoint of ≤ 110 °F</i></li> <li>• <i>Lockers used to store paint, oil, turpentine, or other flammable liquids</i></li> </ul> </li> <li>○ Electrical equipment for hazardous area(s)                                     <ul style="list-style-type: none"> <li>• <i>Electrical equipment must be explosion proof or be part of an intrinsically safe system IAW requirements of 111.105</i></li> </ul> </li> <li>○ Integrity of equipment</li> </ul> </li> </ul>	<div>120.530(a)</div> <div>120.530(b)</div> <div>120.530(b)</div> <div>111.105-5</div>	<div>02108</div>



## Section 12: Structural/Watertight Integrity (SW)

Action	Ref	Code
♦ □ Hatches and Class-1 watertight doors	171.124	03104/7 03110
○ Knife edges		
○ Gasket material	MSM.71/B.1.E.5	
○ Watertight integrity between gasket and knife edge	116.1160 170.270 MSM.71/B.1.E.5	
○ Condition and operation of hinges and dogging devices	170.270	
○ Operation of Class-1 door's quick- acting closing device	174.210	
○ Operation of indicator lights at the control station	174.210	
○ Markings	122.610	
• <i>Marked both sides – 1" height</i>		
• <i>WATERTIGHT DOOR – KEEP CLOSED</i>		
• <i>-or-</i>		
• <i>WATERTIGHT HATCH – KEEP CLOSED</i>		
□ Inspect Class 2 & 3 watertight doors	171.124	03107
○ Operation of local controls	170.270(c)(2) ASTM F1197/7.1	
○ Operation of remote controls	ASTM F1197/7.1	
○ Replaceable interface between door and frame assembly	170.270(c)(1) ASTM F1196/6.3	
○ Operation of alarms	ASTM F1197/11.5	
○ Closing times are in compliance	ASTM F1197/11.2	
• <i>20-40 seconds</i>		
○ Markings	ASTM F1197/11.4 122.610	
○ Watertight integrity	ASTM F1196/11.1 ASTM F1196/S4 ASTM F1196/S1	
○ Doors operate under reserve power	170.270(c)(3) ASTM F1197/S3	
□ Watertight bulkhead penetrations	171.114	03199
○ Locations		
• <i>As high up and inboard as possible, number of penetrations should be minimized.</i>		
○ Watertight		
○ Free of sluice valves		
□ Hull structure		02199
○ Damage, wastage & fractures	116.300 MSM.71/B.1.B.1	02106
○ No unauthorized repairs	115.700	02106

## Section 13: Pollution Prevention Inspection (PP)

Action	Ref	Code
<input type="checkbox"/> Sewage system <ul style="list-style-type: none"> <li>○ Presence of manufacturer's instructions</li> <li>○ Operation</li> <li>○ Capacity</li> <li>○ Piping and wiring</li> <li>○ Marine Sanitation Device (MSD) approval &amp; labeled Type I, II, or III</li> <li>○ Instructions &amp; warning placard posted</li> <li>○ Overboard discharge valve is closed and secure             <ul style="list-style-type: none"> <li>• <i>Methods of locking &amp; securing and applicability of locking &amp; securing in 33 CFR 159.7(b) &amp; (c)</i></li> </ul> </li> </ul>	121.704 MSM.71/B.6.F.4 33-159.57 33-159.57 33-159.57 33-159.57 33-159.97 33-159.7 33-159.59 33-159.7(b) 33-159.7(c)	14402
<input type="checkbox"/> Garbage handling (MARPOL Annex V) survey (when applicable) <ul style="list-style-type: none"> <li>○ Plan compliance</li> <li>○ Handling of plastics</li> <li>○ Placards posted (&gt;26')             <ul style="list-style-type: none"> <li>• <i>Prominent locations</i></li> <li>• <i>Readable by crew &amp; pax</i></li> <li>• <i>Durable, 5in x 8in</i></li> </ul> </li> </ul>	121.702 33-151.51 MARPOL V/9.2 33-151.57 33-151.55 MARPOL V/9.3(b) 33-151.59 MARPOL V/9.1(a)	14503 01320 14502
<input type="checkbox"/> Oil pollution prevention <ul style="list-style-type: none"> <li>○ Oil pollution placard posted (&gt;26')             <ul style="list-style-type: none"> <li>• <i>In every machinery space or bilge/ballast pump stations</i></li> <li>• <i>Durable, 5" x 8"</i></li> </ul> </li> </ul>	33-155.450	14502
♦♦ ○ Bilges are free of debris & excessive amounts of oil	115.830	07126
<input type="checkbox"/> Vessel General Permit (VGP) compliance verification (when applicable) <ul style="list-style-type: none"> <li>○ Discharges are in compliance with VGP</li> <li>○ Log entries</li> </ul>	CG-543 PL 11-01 99103 VGP 2.2.3.2 VGP 4.3 VGP 4.1.1.1 VGP 4.2	

## Section 14: Topside Equipment Inspection (TE)

Action	Ref	Code
<ul style="list-style-type: none"> <li>◆ <input type="checkbox"/> Freeing ports and scuppers                             <ul style="list-style-type: none"> <li>○ No modifications</li> <li>○ Unobstructed</li> <li>○ Free operation of any flowback device (if applicable)</li> </ul> </li> </ul>	Stability Letter 171 Sbpt H 115.700	03112/3
<ul style="list-style-type: none"> <li><input type="checkbox"/> Ground tackle, mooring lines &amp; related equipment                             <ul style="list-style-type: none"> <li>○ Size of anchor(s) required</li> <li>○ Operation of capstan</li> <li>○ Condition of anchoring equipment</li> <li>○ Ability to safely anchor</li> <li>○ Condition of bits, cleats, fairleads &amp; winches</li> <li>○ Mooring lines/wires are adequately sized and in working condition</li> </ul> </li> </ul>	121.300	09228 09299
<ul style="list-style-type: none"> <li>◆ <input type="checkbox"/> Port lights, dead covers &amp; natural vent openings                             <ul style="list-style-type: none"> <li>○ Covers are readily available &amp; operational</li> <li>○ Closing devices have proper fit &amp; seal (<i>dogs, rims, seats, hinges and lugs</i>)</li> <li>○ Port lights &amp; dead covers have proper fit &amp; seal</li> </ul> </li> </ul>	116.600 171.117 119.465(h) 171.116 171.117	03106/8
<ul style="list-style-type: none"> <li><input type="checkbox"/> Fuel tank venting                             <ul style="list-style-type: none"> <li>○ Condition and location</li> <li>○ Installation and condition of flame screen(s)</li> <li>○ Installation of vent piping</li> <li>○ Vent size</li> <li>○ Condition of flexible vent pipe sections</li> </ul> </li> </ul>	182.20-35 119.450(c) 119.450(d) 119.450 119.450(b) 119.450(e)	02107
<ul style="list-style-type: none"> <li><input type="checkbox"/> Rails and guards                             <ul style="list-style-type: none"> <li>○ Rail heights &amp; courses                                     <ul style="list-style-type: none"> <li>• 200lb point load, 50lb uniform load minimum</li> <li>• 12" course max</li> <li>• 39.5" height for ICLL, ferries, excursion trips, sightseeing, diner/party/overnight cruises</li> <li>• 36" height for all else</li> <li>• <i>Open/sail vessels OCMI discretion</i></li> </ul> </li> <li>○ Storm rails</li> <li>○ Guards for vehicles</li> </ul> </li> </ul>	116.900 177.35-1  116.920 177.35-5 116.940 177.35-10	03103

## Section 15: Security (SD)

### International / >150 Passengers

Action	Ref	Code
<input type="checkbox"/> Vessel Security Plan (VSP/ASP)		16103
○ Presence of approval letter for plan type	33-104.120(a)(1) SOLAS XI-2/4.2 ISPS A/9.1	
○ Plan is secured	33-104.400(c) ISPS A/9.7 NVIC 4-03	
○ Contents	33-104.400	
○ Amendment(s) ( <i>if applicable</i> )	33-104.415(a)	
○ Implementation	33-104.400(a)	
<input type="checkbox"/> Security records		
○ Record(s) of security training	33-104.235(b)(1) SOLAS XI-2/4.2 ISPS A/10.1.1	16107
○ Presence of Declarations of Security (DoS)	33-104.235(b)(7) ISPS A/5.7 NVIC 4-03 Encl. 3 Sect. 10	16107
○ Record(s) of security drills	33-104.235(b)(2) ISPS A/10.1.1	16106
○ Annual exercise has been conducted	33-104.230	16106
○ Record(s) of annual audit	33-104.235(b)(8) ISPS A/10.1.6	16106
<input type="checkbox"/> Security equipment		16107
○ Equipment matches plan	33-104.292(b)(ii) SOLAS XI-2/6 ISPS A/9.4.17	
○ Maintenance records	33-104.260 33-104.235(b)(5) NVIC 4-03 Encl. 3 Sect. 10	
<input type="checkbox"/> Crew's knowledge of security plan		
○ Identify Company Security Officer (CSO)	33-104.200(b)(2) SOLAS XI-2/4.2 ISPS A/11.1	16106
○ Identify Vessel Security Officer (VSO)	33-104.200(b)(2) ISPS A/12.1	16106
○ VSO knowledge regarding his/her responsibilities	33-104.215(e) ISPS A/12.2 NVIC 4-03 Encl. 3 Sect. 9	16104
○ Crew's level of knowledge regarding their security responsibilities	33-104.220 ISPS A/13.3 NVIC 4-03 Encl. 3 Sect. 10	16106
○ Compliance with current Maritime Security (MARSEC) level	33-104.240 33-104.215(e)(9) ISPS A/12.2.9	16105

## Sections 16-20: Human Factors & Safety Culture / Drills

*These questions are a sample of potential questions that a marine inspection can use to determine the efficacy of a safety culture aboard a vessel. Vessel crews that are unable to provide satisfactory answers may be considered for a flag state detention.*

- ☐ Check general condition of vessel & hazard mitigation [e.g. extension cords, tripping, clear escape paths].
- ☐ How do you check the weather prior to getting underway?
- ☐ What are your procedures if you suspect inclement weather while you are underway?
- ☐ Do you have procedures for charging non-permanent lithium ion batteries?
- ☐ What is your response to marine casualties?
- ☐ What procedures for [vessel specific ops, e.g. parasail, diving]?
- ☐ What is the process for making alterations to the vessel?
- ☐ Does the vessel create voyage plans?
  - Who creates them and what are the criteria?
  - Who monitors the voyage plans and accounts for the vessel(s) underway?
  - Are your voyage plans verified or reviewed by anyone?
- ☐ How often is lifesaving equipment checked by the crew (rafts, lifejackets, provisions, instructions, Life ring buoys, etc.)?
  - How are these inspection/checks completed and by whom?
  - Is there any training for the company's inspector?
  - Is there any training for operators/crewmembers to spot check equipment?
  - Are they documented or logged?
  - How often and by whom are inventories conducted on lifesaving equipment?
  - Are the documented or logged?
  - What happens when a piece of lifesaving equipment is found to be unsafe/unusable?
- ☐ What are your procedures if you receive an alarm [smoke, machinery, hi-level, etc]?
- ☐ How often are your alarms tested?
- ☐ How do you track preventative maintenance for the vessel navigation systems?
  - Who conducts the maintenance?
  - How is this maintenance shared with the vessel operators and crews?
- ☐ What is the process of reporting/discarding/replacing faulty lifesaving system parts?
- ☐ How do you track preventative maintenance for the lifesaving equipment and systems?
  - Who conducts the maintenance?
  - Is it documented or logged?
  - Is this accessible to all crew?

## **Sections 16-20: Human Factors & Safety Culture / Drills**

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- ☐ How do you track preventative maintenance for the vessel engineering/machinery systems?
  - Who conducts the maintenance?
  - Does it align with the manufacturer's manuals?
  - Who reviews the manuals and develops the maintenance scheme?
  - Is it documented or logged?
- ☐ How often is the bilge system tested?
  - Who conducts the tests?
  - What procedure is used/ how are the tests conducted?
  - How do you verify the tests have been satisfactorily completed?
  - Is it logged/documented? If so, where?
- ☐ How do you track preventative maintenance for the vessel firefighting systems?
- ☐ What is the process for ordering CG approved equipment such as lifejackets, flares or fire extinguishers? Are you aware of the CG MIX database which provides information on all COMDT approved lifesaving and fire protection equipment?
- ☐ What is the process for replacing appliances or furniture?
- ☐ Does the vessel anchor?
  - What is the process for doing so?
  - Is it documented?
- ☐ What is the limits of your stability letter and route?
- ☐ What is the procedural response if any system or equipment/material condition failures are found?
- ☐ What is your response to any injuries that occur onboard?
  - Are these injuries documented?
  - Are these injuries investigated or is any effort conducted to establish the root cause?
  - Are the results appropriately taken into consideration to prevent future injuries?
- ☐ What is your response to marine casualties such as fires, flooding, collisions, allisions or groundings?
  - Are these casualties documented?
  - Are these casualties investigated or is any effort conducted to establish the root cause?
  - Are the results appropriately taken into consideration to prevent future casualties?
- ☐ What is your response to loss of steering or a loss of propulsion?
  - Are these losses documented?
  - Are these losses investigated or is any effort conducted to establish the root cause?

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### **Section 17: Emergency Drills General**

- ☐ How does the crew conduct crowd control during an emergency?
- ☐ How are crew members selected/ how is the crew rotation determined?

## Sections 16-20: Human Factors & Safety Culture / Drills

- ☐ What training is required for crew members and how often are emergency drills conducted for crew members on each vessel?
- ☐ Are all of your crew members required to complete drills?
  - With what frequency?
- ☐ How do you perform your drills and how are they evaluated?
- ☐ How are they tracked and how do you ensure each crew member has completed all of the required drills within the required time frames?
- ☐ What are the responsibilities for each crew member during emergency situations?
  - Is that posted or documented anywhere?
- ☐ How often are your emergency systems (emergency lighting, emergency alarms, public address system, etc.) operated and inspected for proper function?
- ☐ How does the crew respond to passenger medical emergencies?
  - Do certain crew members have specific responsibilities?
  - Is this response documented anywhere?
- ☐ What are the training requirements/procedures for new crew members?
- ☐ If there is an emergency while underway, who do you communicate that to?
  - How do you communicate that to them?
- ☐ Please discuss your safety brief you give to passengers when they arrive onboard.
- ☐ How do you check the weather prior to getting underway?
- ☐ What are your procedures if you suspect inclement weather while you are underway?
- ☐ How do you deal with unexpected storms?

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### Section 18: Fire Drill

- |   |                 |       |
|---|-----------------|-------|
| <input type="checkbox"/> Evaluate Fire Drill                              | 122.524         | 04109 |
| ○ Witness fire drill  | 115.810(d)      | 07125 |
| ○ Verify crew's ability to organize                                       | MSM.71 /B.2.D.3 | 04118 |
| ○ Verify crew's familiarity with their duties                             |                 |       |
| ○ Verify crew's familiarity with use of equipment                         |                 |       |
| ○ Verify method of summoning passengers to muster or embarkation stations |                 |       |
| ○ Verify effective communication with master                              |                 |       |
- ☐ Did crew member sound alarm?
  - ☐ Did crew member attempt initial action?
  - ☐ Did the Master turn the vessel into the wind, slow down, etc, and make announcements to crew/pax and make the call to local CG or vessels in surrounding area?
  - ☐ Did Master control situation from helm, make announcements and communicate effectively with the crew?
  - ☐ Did crew members take control of the situation and direct pax as appropriate?
  - ☐ Did crew members communicate effectively with Master, other crew members and pax?

## Sections 16-20: Human Factors & Safety Culture / Drills

- ☐ Was a charged fire hose or fire bucket provided?
- ☐ Did crew member effectively fight fire with portable fire extinguishers, close off ventilation closures, secure power and fuel?
- ☐ Did the crew know how to operate and deploy the Fixed Fire Extinguishing System and /or fire pump (if available)?
- ☐ Did the crew understand which agent they were using?
- ☐ Did the drill follow the SOLAS training and operations manual, the emergency instructions, and/or placards posted?
- ☐ What are your procedures if you receive a smoke detection alarm?
- ☐ How often do you charge a fire hose during drills so crew can become familiar with handling the hose? (If applicable)
- ☐ How often are fire drills completed?
  - o Do you discuss topics with the crew including fire boundaries, containing the fire and activation of suppression systems?
- ☐ How does the crew conduct crowd control during an emergency?
  - o Which crew member is responsible for this in each location?

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### Section 19: Man Overboard Drill

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- |  |            |       |
|--|------------|-------|
| <input type="checkbox"/> Evaluate Man Overboard Drill  | 115.808(g) | CG004 |
| o Verify ability to recover a helpless person  | 122.520    |       |
| o Verify crew's ability to organize  | 117.210    |       |
| o Verify crew's familiarity with their duties  | 122.700    |       |
| o Witness launching of rescue boat (when applicable)   | 180.10-35  |       |
| o Evaluate crew's proficiency in handling and maneuvering the rescue boat in the water (when applicable) |            |       |
| o Verify operational readiness and condition of rescue platform (when applicable)                        |            |       |
- 
- ☐ Did the crew throw Oscar or fender overboard?
  - ☐ Did the crewmember call out "man overboard" and which side of the vessel the victim fell over and begin pointing to the victim?
  - ☐ Did crewmember throw ring life buoy or PFD, fender or other flotsam overboard?
  - ☐ If at night, was the waterlight attached to the ring life buoy and was it deployed immediately?
  - ☐ Did the Master approach the victim with a plan and was he successful?
  - ☐ Did Master sound danger signal, mark position, course and speed, announce situation to crew/pax and make the call to local CG or vessels in surrounding area?
  - ☐ Did the Master control the situation from helm, make announcements and communicate effectively with crew?



## Sections 16-20: Human Factors & Safety Culture / Drills

- ☐ Did the Master approach the victim with a plan and was he successful?
- ☐ Did the crewmembers properly don PFDs, take control of the situation and direct passengers as appropriate?
- ☐ Did crew members communicate effectively with the Master, other crewmembers and pax?
- ☐ When alongside, did crewmembers have a plan for retrieving the victim?
  - Did they use a boat hook or fish gaff to retrieve the victim?
  - Did they use a ring life buoy or other safe lifesaving device to reign in the victim?
- ☐ When the victim was recovered, did the crew complete basic first aid that included the ABCs?
- ☐ Did the drill follow the training and operations manual or emergency instructions?

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### Section 20: Abandon Ship Drill

- |  |            |       |
|--|------------|-------|
| <input type="checkbox"/> Evaluate abandon ship drill | 115.808(g) | 04110 |
| ○ Witness drill                                      | 122.520    |       |
| ○ Verify means or summoning crew and passengers      |            |       |
| ○ Verify crew's familiarity with assigned duties     |            |       |
| ○ Verify all lifejackets are correctly donned        |            |       |
| ○ Witness means of launching survival craft          |            |       |
- 
- ☐ Did the Master simulate broadcasting a mayday on the VHF radio and provide the vessel position, number of persons onboard and type of distress?
  - ☐ Were life jackets properly donned by crew and pax?
  - ☐ Did the crew have a plan (demonstrate as necessary) on how to deploy and marshal the vessel's primary lifesaving devices?
  - ☐ Did the Master simulate activating the EPIRB?
  - ☐ Did the drill follow the training operations manual or SOLAS training materials or emergency instructions and/or others placards posted?
- 

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### Section 21: Passenger Egress Drill

- |   |                          |       |
|---|--------------------------|-------|
| <input type="checkbox"/> Evaluate passenger egress drill (overnight only)             |                          | 04110 |
| ○ Verify drill normally conducted prior to each trip w/ new pax                       | 122.507(a)               |       |
| ○ Verify logbook entry includes date/time, number of participants                     | 122.507(b)               |       |
| ○ Verify ability for passenger to easily egress to embarkation station                | 122.506(e)<br>116.500(o) |       |
| ○ Verify passengers don lifejackets during each drill w/ clear instructions from crew | 122.506(e)               |       |

## International Voyages Certificates and Documents (CD)

Action	Ref	Code
<input type="checkbox"/> Passenger Ship Safety Certificate ( <i>Int'l Route, &gt;12 pax</i> ) <ul style="list-style-type: none"> <li>○ Presence</li> <li>○ Validity</li> <li>○ Contents</li> </ul>	SLS.14/Circ.87 Dated 11/15/89 115.910(a) SOLAS I/12(a)(i) 115.910(c) SOLAS I/14 115.910(a)-(b) SOLAS I/15	01103
<input type="checkbox"/> Engine International Air Pollution Prevention (EIAPP) Certificate ( <i>Int'l Route, Marine Diesel &gt;130kW</i> ) <ul style="list-style-type: none"> <li>○ Presence</li> <li>○ Correct engines identified &amp; no changes have been made</li> <li>○ Statement of Compliance (issued by Manufacturer) is accompanied by EPA issued EIAPP</li> </ul>	MARPOL VI/13.1 MARPOL VI/13.8 NOx Code 2.1.1 MARPOL VI/13.1.1 CG-543 PL 09-01 5.b	01125
<input type="checkbox"/> International Air Pollution Prevention Certificate (IAPP) and Supplement Record of Construction and Equipment ( <i>Int'l Route, &gt;400 GT ITC</i> ) <ul style="list-style-type: none"> <li>○ Vessel particulars on IAPP and Record of Construction and Equipment</li> <li>○ Annual, intermediate, renewal, repair and extension endorsements and/or change in anniversary date</li> <li>○ Ozone depleting substances identified</li> <li>○ Nitrogen Oxide emission sources identified</li> <li>○ Sulphur Oxide (fuel oil) requirements identified</li> <li>○ Incinerator installation identified (when applicable)</li> <li>○ Validity of alternatives or equivalents</li> </ul>	MARPOL VI/8 MARPOL VI/8 MARPOL VI/5 MARPOL VI/12 MARPOL VI/13 MARPOL VI/14 CG-543 PL 12-04 MARPOL VI/16 MARPOL VI/4 MARPOL VI/14.5.5	01124
<input type="checkbox"/> International Anti-Fouling System (IAFS) certificate with Record of Anti-Fouling System ( <i>Int'l route</i> ) <ul style="list-style-type: none"> <li>○ Vessel particulars</li> <li>○ COI has Anti-Fouling endorsement or, if not required, IAFS Certificates</li> <li>○ Identification of applied Anti-Fouling System</li> <li>○ Vessel particulars on Record of Anti-Fouling Systems</li> </ul>	IMO Res MEPC.195(61) 4 MSM.71/B.3.J AFS Article 3 AFS Reg 5 AFS Article 10 AFS Reg 2 AFS Annex 2 AFS Annex 3 MEPC.195(61) 4.1	01131

## International Voyages Certificates and Documents (CD)

Action	Ref	Code
<ul style="list-style-type: none"> <li>○ Anti-Fouling Systems details provided</li> <li>○ No change in Anti-Fouling System has occurred since issuance of IAFS Certificates</li> </ul>	MSM.71/B.3.J MEPC.195(61) 4.2 & 5 IMO Res MEPC.195(61) 5.2 MSM.71/B.3.J	01131
<input type="checkbox"/> International Energy Efficiency Certificate and Record of Construction ( <i>Int'l Route, &gt;400 GT ITC, mechanical propulsion</i> )	IMO Res MEPC.203(62) Appendix VIII CG-CVC PL 13-02	01138
<ul style="list-style-type: none"> <li>○ Vessel particulars</li> <li>○ Energy Efficiency Design Index requirements (<i>New ships after 1/1/17</i>)</li> <li>○ Ship Energy Efficiency Management Plan (SEEMP) is identified</li> <li>○ Technical File requirements are met (<i>&gt;5000 GT ITC</i>)</li> </ul>	MEPC.203(62) 20.1 CG-CVC PL 13-02 7.b MEPC.203(62) 22 MEPC.203(62) 20.1	
<input type="checkbox"/> International Oil Pollution Prevention Certificate (IOPP) ( <i>Int'l Route, &gt;400 GT ITC</i> )	MARPOL I/2.1-.4 MARPOL I/9 MARPOL I/9 33-151.17-.19 MARPOL I/6 33-151.19 MARPOL I/9 MARPOL I/14 MARPOL I/16 MARPOL I/12 33-155.430 MARPOL I/13	01117
<input type="checkbox"/> Statement of Voluntary Compliance, MARPOL Annex IV (Sewage) ( <i>Int'l Route, &gt;400 GT ITC</i> )	NVIC 1-09 33-159.53 & .55 IMO Res MEPC.227(64)	01119
<input type="checkbox"/> Credentials		01299
<ul style="list-style-type: none"> <li>○ STCW endorsements</li> </ul>	10.109(d) 11.201 STCW I/2.6	

## International Voyages Certificates and Documents (CD)

Action	Ref	Code
○ Vessel Security Officer endorsement	33-104.215 15.1113	01217
○ Transportation Worker Identification Credential (TWIC)	10.203(b) CG-543 PL 11-15	16107
○ GMDSS endorsements	47-80.159(d) 47-80.1073 G-MOC PL 04-02	01201 01203
<input type="checkbox"/> International Load Line Certificate (ILLC) (Int'l Route, >150 GT ITC or ≥79')	114.122 ICLL Art. 16 42.07-45	01108
○ Presence		
○ Validity	ICLL Art. 15 ICLL Art. 19	
○ Certificate form	ICLL Art. 18	
○ Confirm load line observed on hull matches certificate	42.07-5	
○ Logbook entries are completed	ICLL I/9	
○ Record of Conditions of Assignment (Form LL.11) is present and validates issued Load Line	42.07-20 CG-5212 Policy Notes 5.c	
<input type="checkbox"/> Document of Compliance (ISM-DOC) (Int'l Route, >12 pax)	SLS.14/Circ.155 Dated 9/17/98 33-96.330 SOLAS IX/4.2	01106
○ Presence	115.925	
○ Validity	115.930	
○ Document form	115.925 SOLAS IX/5 ISM 13.2-5	
○ Alternate compliance arrangements	ISM 16 114.540 MSM.74/E.3.C.5	
<input type="checkbox"/> Safety Management Certificate (ISM-SMC) (Int'l Route, >12 pax)	SLS.14/Circ.155 Dated 9/17/98	01107
○ Presence	115.925 33-96.340 SOLAS IX/4.3	
○ Validity	115.925 SOLAS IX/5 ISM 13.5.1	
○ Certificate form	ISM 16	
○ Alternate compliance arrangements	114.540	
<input type="checkbox"/> International Ship Security Certificate (ISSC) & Continuous Synopsis Record (CSR) (Int'l Route, >12 pax)	SOLAS XI-1/5.5.201122 ISPS A/19.2.4	
○ Vessel particulars	SOLAS XI-1/5.3	

## International Voyages Certificates and Documents (CD)

Action	Ref	Code
<ul style="list-style-type: none"> <li>○ Company name &amp; address match International Safety Management documents</li> <li>○ ISSC verification type with date</li> <li>○ ISSC endorsement (Intermediate or additional)</li> <li>○ Additional ISSC verifications, extensions, renewals or expiry advancements are completed</li> <li>○ CSR is present &amp; valid</li> </ul>	ISPS A/19  ISPS A/19.1.1 ISPS A/19.1.1 ISPS A/19.3.4  SOLAS XI-1/5.1 SOLAS XI-1/5.4.1-.3 SOLAS XI-1/5.3	
<ul style="list-style-type: none"> <li>○ CSR information matches ISSC</li> </ul>		
<input type="checkbox"/> Certificate of Documentation (COD) (>5 NT, Int'l Route) <ul style="list-style-type: none"> <li>○ Registry endorsement</li> </ul>	67.17 67.19	CG003
<input type="checkbox"/> Tonnage Certificate <ul style="list-style-type: none"> <li>○ Presence</li> <li>○ Validity</li> <li>○ Correct measurement system</li> </ul>	69.69  69.11 69.55 NVIC 11-93 69.105	01132
<ul style="list-style-type: none"> <li>○ Vessel particulars remain valid</li> </ul>	ICTM Art. 3	
<input type="checkbox"/> MARPOL Placards, Garbage Management Plans, & Record Keeping (Int'l Route, >12 pax) <ul style="list-style-type: none"> <li>○ Placard (&gt;12m length)</li> <li>○ Management Plan (≥15 POB)</li> <li>○ Record Book (≥15 POB)</li> </ul>	MARPOL 10.1.1 MARPOL 10.2 MARPOL 10.3	14502 14503 01320

# International Voyages Logs & Manuals Inspection (LM)

Action	Ref	Code
<input type="checkbox"/> Official logbook		01305
○ Presence	122.280(a)	
○ Verify entries	122.280(b)	
<input type="checkbox"/> Maintenance Records		
○ Shore-based maintenance report for EPIRB	122.728 SOLAS IV/15	05111
○ Maintenance & inspections of survival craft	122.722 122.724 & .726 SOLAS III/20.7	11199
○ Annual test reports for VHF-DSC, AIS, LRIT & SSAS	SOLAS IV/17	05116
<input type="checkbox"/> Shipboard Oil Pollution Emergency Plan (SOPEP) (>400 ITC)	121.702	01314
○ Applicability	33-151.09 MARPOL I/2	
○ Approval	33-151.27 MARPOL I/37.1	
○ Annual review	33-151.28(a) 33-151.28(d)	
○ Plan organization	33-151.26	
<input type="checkbox"/> Oil and hazardous liquid transfer procedures (≥250 bbls oil/hazmat)	121.702	14105
○ Presence	33-155.720	
○ Person in Charge is identified	33-155.750(a)(4)	
○ Contents	33-155.750	
<input type="checkbox"/> Vessel's training log	SOLAS III/35	01305
○ Presence		
○ Contents		
<input type="checkbox"/> Oil Record Book (ORB) (>400 ITC)	121.702	01315
○ Edition	33-151.25(b)	
○ Required signatures	33-151.25(h) IMO Res MEPC.187(59)	
○ Required entries	33-151.25(h) MARPOL I/Appx III	
○ Compare overboard discharge rate entries with filtering equipment data plate or supplement to IOPP certificate	MARPOL I/7 MARPOL I/Appx III	

## International Voyages

### Bridge/Navigation & Lifesaving/Firefighting

Action	Ref	Code
<input type="checkbox"/> Voyage data recorder ( <i>Int'l Route, &gt;12 pax</i> )	SOLAS V/20	10114
○ Presence		
○ Installation		
<input type="checkbox"/> Automatic identification system (AIS) ( <i>Int'l Route, &gt;12 pax</i> )	33-164.46 SOLAS V/19.2.4	10113
○ Presence		
○ Operational		
<input type="checkbox"/> Bridge navigation equipment ( <i>Int'l Route, &gt;12 pax</i> )		
○ Spare magnetic compass	SOLAS V/19.2.2.1	10105
○ Pelorus or compass bearing device	SOLAS V/19.2.1.2	10105
○ Means of correcting heading & bearing to true at all times	SOLAS V/19.2.1.3	10106
○ Electronic plotting aide	SOLAS V/19.2.3.3	10107
○ Speed & distance measuring device	SOLAS V/19.2.3.4	10103
<input type="checkbox"/> Communication equipment ( <i>Int'l Route, &gt;12 pax, Sea Area Dependent</i> )		
○ Operation of NAVTEX ( <i>All</i> )	SOLAS IV/7.1.4 47-80.1101(c)	05110
○ Operation of portable VHF(s) ( <i>All</i> )	SOLAS III/6.2.1 47-80.1095(a)	11123
○ Radar transponder (AIS-SART)( <i>All</i> )	SOLAS III/6.2.1 47-80.1095	11123
○ GMDSS radio equipment installation is appropriate for the Sea Area in which the vessel operates	47-80.1095 SOLAS III/6.2.2 46-80 Sub W	05118
• <i>Sea Area A1 – covered by ≥1 VHF-DSC coast station</i>		
• <i>Sea Area A2 – excluding A1; covered by ≥1 MF-DSC coast station</i>		
• <i>Sea Area A3 – excluding A1/2; covered by INMARSAT</i>		
• <i>Sea Area A4 – excluding A1/2/3</i>		
<input type="checkbox"/> Long range identification and tracking (LRIT) ( <i>Int'l Route, &gt;12 pax, Except ships w/AIS in Sea Area A1</i> )	33-169.205(a) SOLAS V/19-1	10137
○ Presence		
○ Operational		
○ Conformance test report		
• <i>Check for LRIT exemption in MISLE</i>		
<input type="checkbox"/> Depth sounding equipment ( <i>Int'l Route, &gt;12 pax</i> )	SOLAS V/19.2.3.1	10117
○ Operational		

## International Voyages Bridge/Navigation & Lifesaving/Firefighting

Action	Ref	Code
<input type="checkbox"/> Global Maritime Distress and Safety System (GMDSS) equipment		05118
○ Station ID numbers on applicable equipment	47-80.1083 SOLAS IV/6.2.5	05118
○ Logs for tests and notations	47-80.1075 SOLAS IV/17	05115
○ Equipment for operation areas	47-80.1083-.1095 SOLAS IV/6.1 NVIC 3-99	05103
○ Verify operation of VHF Digital Selective Calling (DSC) radio	47-80.1085(a)(1) SOLAS IV/6.3 SOLAS IV/7.1.1	05109
○ Emergency source of power provided	47-80.1099(b) SOLAS IV/13.2 Operations Manual	05114
○ Compliance with maintenance method(s)	47-80.1105(c) SOLAS IV/15 NVIC 3-99	05107
• <i>IV/15.6 Sea Areas A1 &amp; A2 Methods (one) – duplication of equipment, shore-based maintenance, or at-sea maintenance capability</i>		
• <i>IV/15.7 Sea Areas A3 &amp; A4 (two) - duplication of equipment, shore-based maintenance, or at-sea maintenance capability</i>		
• <i>NVIC 3-99 USCG does not have authority to issue GMDSS deficiencies on US flag vessels. If found restrict route to US blue and contact FCC.</i>		

## International Voyages Lifesaving & Firefighting (LS)(FF)

<input type="checkbox"/> Immersion suit (SOLAS)	117.10	11119
○ USCG type approval	160.171	
○ Quantity & size presence	199.70(c) SOLAS III/4	
○ Verify stowage	199.70(c) 199.70(c)(2)&(d)	
• <i>Readily accessible</i>		
• <i>Container clearly marked with "IMMERSION SUITS" or "ANTI-EXPOSURE SUITS" &amp; quantity, identity and size</i>		
○ Markings ( <i>Vessel or person name</i> )	199.70(c)(3)	
○ Attachments & fittings ( <i>life jacket light &amp; whistle</i> )	160.006-2 199.70(c)(4)	
○ Condition and suitability	NVIC 1-08	
<input type="checkbox"/> Emergency outfits and equipment (SOLAS)		07111
○ Number of outfits	SOLAS II-2/10.10.2	
○ Spare charges for breathing apparatus	SOLAS II-2/10.10.2.5	
○ Means of recharging breathing air cylinders	SOLAS II-2/10.10.2.6	



## International Voyages Bridge/Navigation & Lifesaving/Firefighting

Action	Ref	Code
<ul style="list-style-type: none"> <li>○ Stowage location <ul style="list-style-type: none"> <li>• <i>Easily accessible</i></li> <li>• <i>Permanently &amp; clearly marked</i></li> <li>• <i>Separated as widely as possible</i></li> </ul> </li> <li>○ Markings</li> </ul>	SOLAS II-2/10.10.3 SOLAS II-2/10.10.3.1	07108
<ul style="list-style-type: none"> <li>□ Fire Control Plan (SOLAS) <ul style="list-style-type: none"> <li>○ Contents &amp; current</li> <li>○ Location (<i>permanently exhibited</i>)</li> <li>○ Duplicate set of plans provided in a prominent weather tight container outside of deck house for aid of shore side firefighting personnel</li> </ul> </li> </ul>	SOLAS II-2/15.3	07122
<ul style="list-style-type: none"> <li>□ International Shore Connection (SOLAS, &gt;500GT) <ul style="list-style-type: none"> <li>○ Confirm location with Fire Control Plan</li> <li>○ Gaskets and bolts are with the connection</li> <li>○ Size, markings, and proper construction</li> </ul> </li> </ul>	SOLAS II-2/10.2.1.7 Fire Control Plan FSS 2.2 IMO Res A.952(23)	07118

# Wood Vessel Addendum Old T-L Vessels

Action	Ref	Code
<b>Lifesaving Equipment (LS)</b>		
<input type="checkbox"/> Survival craft	117.200(c)	11101/
o Quantity		4/8/27
<b>Machinery Equipment (MI)</b>		
<input type="checkbox"/> Bilge and high-water alarms	119.530	13104
o Location		
<b>Hull Inspection (HI)</b>		
<input type="checkbox"/> Subdivision and damage stability requirements	116.100 <i>116.115</i>	02199/ 03199
o Presence of collision bulkhead	171.085	
o Subdivision	171.060 171.065 171.070	
<input type="checkbox"/> Wood hull		02199
o Condition	115.610(a) NVIC 7-95 4.A-F MSM.71/ B.1B.1	
• <i>Wood NVIC 7-95 5p. 5-7: When decay is found in any form that adversely affects the structure of the vessel, proper repairs MUST be made. The most common and acceptable repair for decayed wood is to crop out and renew the entire structural member. Other times it is possible to crop out a section of the decayed member, about two feet is a good rule of thumb, and replace it with a new section of wood. A case in point is the procedure for decayed frame heads. The proper method of repair is to crop and renew the frame by cutting out at least two feet past the rot and scarfing in the new section. This method is only used in the event that it is extremely impractical to renew the entire frame.</i>		
o Stress areas (garboard plank, stem, chine, etc.)	115.610(a) NVIC 7-95 4.N	
o Bungs for running rust or blisters	115.610(a) NVIC 7-95 4.K.1	
o Caulking	NVIC 7-95 4.L	
o No unauthorized repairs	115.700	
<input type="checkbox"/> Wood hull fasteners		02199
o Location of fasteners to be pulled	NVIC 7-95 4.K.1	
• <i>The routine periodic inspection of fasteners (pulling of fasteners) on wood boats is outlined in NVIC 7-95 and is:</i>		
• <i>Beginning at the 10th year of age and every 5 years thereafter for salt water service:</i>		
• <i>Beginning at the 20th year of age and every 10 years thereafter for fresh water service:</i>		
• <i>Remove a minimum of 8 fasteners per side below the w/l concentrating at:</i>		
• <i>Garboard seams</i>		
• <i>Stem joint</i>		
• <i>Plank ends in area of bent frames</i>		

## Wood Vessel Addendum

### Old T-L Vessels

Action	Ref	Code
<ul style="list-style-type: none"> <li>• <i>Shaft logs</i></li> <li>• <i>Under engine beds</i></li> </ul>		
○ Condition of fastenings	115.610(a) NVIC 7-95 4.K.1-2	
○ Document type, condition, material, and location of fastenings	NVIC 7-95 4.K.2	
○ Through bolts (keel, chine, clamp, double frame, floor timber bolts, etc.) (when needed)	NVIC 7-95 4.K.1-2	
○ No unauthorized fastenings	NVIC 7-95 115.700	
<input type="checkbox"/> Internal inspection of wood hull	115.610(b)	02199
○ Condition	NVIC 7-95 4.A-F MSM.71/ B.1.B.1	
○ Frames and frame heads	NVIC 7-95 4.F.1.A	
○ Sound through bolts (keel, chine, clamp, double frame, floor timber bolts, etc.)	NVIC 7-95 4.K.1	
○ No unauthorized repairs	115.700	
<input type="checkbox"/> Repair(s)	<i>177.10-1</i> 115.610	02199
○ Extent of decay, defect(s) and damage	NVIC 7-95 2.01-10(a)(2)	
○ Repair proposal	115.700 & 116.300 NVIC 7-95 Ch. 5	
○ Repair materials	NVIC 7-95 Ch. 3	
○ Inspect repair(s)	Lloyd's Yachts & Small Craft 115.610 NVIC 7-95 Ch. 5	

## Drydock & ISE Addendum

Action	Ref	Code
<b>Hull Inspection (HI)</b>		
<input type="checkbox"/> Steel and aluminum hulls		
Wastage, defect(s) and damage ( <i>Shell, Keel and Bilge keel, High stress locations and welds, etc.</i> )	115.802 115.610	02106
Critical areas ( <i>stringer plate, sheer plate, etc.</i> )	115.802(a)(1) NVIC 7-68 IV(B) NVIC 11-80	02106
○ Seachests, piping and overboard discharges for wastage, defect(s) and damage	115.802(a)(2) NVIC 7-68 II(A)	02106
○ Condition of drydock (bottom) plugs	115.802(a)(7) NVIC 7-68 II(A) MSM.71/B.3.B	03199
○ Wastage/corrosion is within limits	NVIC 7-68 III(C) ABS 7-A-4/27	02106
<input type="checkbox"/> Hull markings		
○ Draught (draft) marks & load marks	122.602	03199
○ Load Line & Deckline	114.122 122.602	02120
○ IMO Hull marking (SOLAS)	SOLAS XI-1/3	
○ Machinery space marking (SOLAS)	SOLAS XI-1/3	
○ Name and hailing port/State number	122.602 67.123	02120
• <i>Name clearly marked on port and stbd bow and stern; hailing port on stern; NLT 4" Latin alphabet, Arabic /Roman #'s</i>		
• <i>State documented vessels are to be marked as required by the state which is regulated under 33 CFR 173.27.</i>	33-173.27	
• <i>State numbers are required on both sides of the bow.</i>		
	33-181.23	
<input type="checkbox"/> Tailshaft(s), stern bearing(s) and propeller(s)		03199
○ Determine if tailshaft(s) needs to be drawn	115.670 MSM.71/B.3.D.3	
○ Bearing clearance & inboard seal assembly	115.670 Manufacturer's Inst	
○ Visually examine entire shaft ( <i>if in question</i> )	115.670	
○ Non-destructive testing (NDT) of the shaft's taper section and keyway ( <i>if in question</i> )	115.670	
○ NDT of propeller coupling bolts and flange radius ( <i>if in question</i> )	115.670 MSM.71/B.3.D.10	
○ Condition and wear/tear of strut bearing(s)	115.610(a)	
• <i>MSM.71 Sec B Ch. 3-34: With wood or rubber bearings, "feeler" gauges of known thickness can be inserted between the shaft and the bearing to determine the amount of wear/tear. Wear/tear may also be taken on wood bearings with a small wedge. The wedge is</i>		03199

## Drydock & ISE Addendum

Action	Ref	Code
<ul style="list-style-type: none"> <li>○ Condition of propeller <ul style="list-style-type: none"> <li>• <i>NTD if in question</i></li> </ul> </li> </ul>	<p>inserted between the shaft and then removed. The impressed clearance is measured with a micrometer to determine the wear down. Maximum wear down readings for wood bearings are found in 46 CFR 61.20-23(a). Rubber bearings must be renewed when any water groove is found to be half its original depth.</p>	
<input type="checkbox"/> Rudder installation		02105
<ul style="list-style-type: none"> <li>○ Type of assembly installed</li> </ul>	115.814 MSM.71/B.3.E.2	
<ul style="list-style-type: none"> <li>○ Examine rudder assembly for deterioration and defects</li> </ul>	115.610(a)	
<ul style="list-style-type: none"> <li>○ Rudder bearing clearance(s) are within limits</li> </ul>	Manufacturer's Inst	
<ul style="list-style-type: none"> <li>○ Condition of pintle(s), gudgeon(s), bushing(s), pintle nut(s) and locking device(s)</li> </ul>	MSM.71/B.3.E.2	
<ul style="list-style-type: none"> <li>○ Condition of pintle by nondestructive test (NDT) (if in question)</li> </ul>	MSM.71/B.3.E.2	
<input type="checkbox"/> Hull appendages	115.610(a) 119.422	03199
<ul style="list-style-type: none"> <li>○ Condition and structural integrity of bilge keel</li> <li>○ Condition of keel coolers</li> <li>○ Condition of transducers and other similar appendages</li> <li>○ Bow/stern thrusters</li> <li>○ Shaft &amp; rudder packings</li> </ul>		
<input type="checkbox"/> Anchor chain(s)	121.300	09228
<ul style="list-style-type: none"> <li>○ Length of chain for satisfactory condition <ul style="list-style-type: none"> <li>• <i>Such as wastage</i></li> </ul> </li> <li>○ Chain locker for satisfactory condition <ul style="list-style-type: none"> <li>• <i>Such as wastage</i></li> </ul> </li> </ul>		
<input type="checkbox"/> Sea valve(s)		03199
<ul style="list-style-type: none"> <li>○ Quantity and type <ul style="list-style-type: none"> <li>• <i>Valves within 6" of waterline on a through hull penetration</i></li> </ul> </li> <li>○ All sea valves are properly identified and are opened for examination</li> <li>○ External and internal components <ul style="list-style-type: none"> <li>• <i>Verify correct operation of valve components</i></li> <li>• <i>Verify correct seating (blue or pressure test if needed)</i></li> </ul> </li> </ul>	115.610 179.350(c)&(d) 115.610 176.25-10 115.610	03199
<input type="checkbox"/> Anti-Fouling Requirements (SOLAS)		
<ul style="list-style-type: none"> <li>○ Vessel particulars</li> </ul>	IMO Res MEPC.195(61) 4	14701
<ul style="list-style-type: none"> <li>○ COI has Anti-Fouling endorsement or, if not required, IAFS Certificates</li> </ul>	MSM.71/B.3.J	14701/3
<ul style="list-style-type: none"> <li>○ Identification of applied Anti-Fouling System</li> </ul>	AFS Art.3	14702

## Drydock & ISE Addendum

Action	Ref	ode
	AFS Annex 2	14701
	AFS Annex 3	
○ Anti-Fouling Systems details provided	MEPC.195(61) 4.2 & 5	14702
○ No change in Anti-Fouling System has occurred since issuance of IAFS Certificates	MEPC.195(61) 5.2 MSM.71/B.3.J	
<input type="checkbox"/> Inspect fiberglass external hull		02106
<input type="checkbox"/> (Old T-L Vessels)		
○ Condition	115.610(a) NVIC 8-87 Ch. 5	
○ Stress areas	115.610(a) NVIC 8-87 Ch. 5	
○ Area in way of through hull fittings	115.610(a)-(b)	
○ damage/unfairness/delamination	NVIC 8-87 Ch. 5.E	
○ No unauthorized repairs	115.610(a)-(b) NVIC 8-87 Ch. 5.C 2.01-15(a)(2) 115.700 NVIC 8-87 Ch. 6	
<input type="checkbox"/> Fiberglass internal hull ( <i>Old T-L Vessels</i> )		02199
○ Condition	115.610(a) NVIC 8-87 Ch. 5	
○ Stress areas	115.610(a) NVIC 8-87 Ch. 5	
○ Area in way of through hull fittings	115.610(a)-(b)	
○ damage/unfairness/ delamination	NVIC 8-87 Ch. 5.E	
○ No unauthorized repairs	115.610(a)-(b) NVIC 8-87 Ch. 5.C 2.01-15(a)(2) 115.700 NVIC 8-87 Ch. 6	
<input type="checkbox"/> Fiberglass repair(s) ( <i>Old T-L Vessels</i> )		02199
○ Extent of damage, defect(s) and/or delamination	115.610 NVIC 8-87 Ch. 6 2.01-15(a)(2)	
○ Repair proposal	115.700 NVIC 8-87 Ch. 6	
○ Repair materials	115.700 NVIC 8-87 Ch. 4	02199
○ Inspect repair(s)	115.610 NVIC 8-87 Ch. 4	

## Internal Structural Examination (IS)

<input type="checkbox"/> Confined spaces are safe for entry		99101
○ Marine Chemist certificate	29-1915.12(f)	

## Drydock & ISE Addendum

Action	Ref	Code
	CIM 5100.47A/6.G.9.c NFPA 306/4.3	
○ Competent person has maintained Marine Chemist Certificate, verify competent person credentials, testing methods and logs	29-1915.15 CIM 5100.47A/ 6.G.9.c(3) NFPA 306/4.6.2	
○ No changes to vessel's condition	29-1915.15(b)	
○ Forced ventilation is provided (IAW Marine Chemist Cert.)	29-1915.13(b)(3)	
○ Condition of space access point	29-1915.76	
<input type="checkbox"/> Internal structures	115.610(b) 115.802 NVIC 7-68 III MSM.71/B.3.B	02199
○ Internal structures		
○ Frames		
○ Floors		
○ Shelves, brackets, clamps		
○ Bulkheads		
○ Tank tops		
○ Coamings, closures & other fittings		
○ Wastage is within acceptable limits		
<input type="checkbox"/> Watertight integrity	115.802 <a href="#">179.360</a>	
○ Hull openings and closures	<a href="#">171.119</a> <a href="#">179.350</a>	03199
○ Deck openings and closures	MSM IV/ 6.I.5	03104/ 10
○ Watertight doors	MSM.71/B.1.5	03107
○ Watertight subdivisions/bulkheads	171.114	03199
<input type="checkbox"/> Stability		
○ Drainage	171 Sbpt H	03112/3
○ Major changes/modifications	170.005	01326
○ Solid ballast	170.235	01326
○ Self-bailers and cockpit freeing ports	171.145	03112/3
• <a href="#">Check valves</a>		
• <a href="#">Required area</a>		

### Structural/Watertight Integrity (SW)

<input type="checkbox"/> Hatches and Class-1 watertight doors	171.124 MSM.71/B.1.E.5 170.270	03104/7 03110
○ Condition of knife edges		
○ Condition of gasket material		
○ Verify watertight integrity between gasket and knife edge		

## Drydock & ISE Addendum

Action	Ref	Code
<ul style="list-style-type: none"> <li>○ Condition and operation of hinges and dogging devices</li> <li>○ Operation of Class-1 door's quick- acting closing device 170.270(a)</li> <li>○ Operation of indicator lights at the control station 170.270(e)</li> <li>○ Markings 122.610</li> </ul>		
<input type="checkbox"/> Inspect Class 2 & 3 watertight doors	171.124	03107
<ul style="list-style-type: none"> <li>○ Operation of local controls 170.270(c)</li> <li>○ Operation of remote controls ASTM F1197/7.1</li> <li>○ Condition of replaceable interface between door and frame assembly ASTM F1197/7.1</li> <li>○ Operation of alarms 170.270(c)(1)</li> </ul>	ASTM F1196/6.3	
<ul style="list-style-type: none"> <li>○ Closing times are in compliance</li> </ul>	ASTM F1197/11.2	
<ul style="list-style-type: none"> <li>○ Markings</li> </ul>	ASTM F1197/11.4	
<ul style="list-style-type: none"> <li>○ Watertight integrity</li> <li>○ Operation of doors under reserve power</li> </ul>	122.610	
	ASTM F1196/11.1	
	ASTM F1196/S1	
	170.270(c)(3)	
	ASTM F1197/S3	
<input type="checkbox"/> Watertight bulkhead penetrations	171.114	03199
Locations – <i>as high up and inboard as possible, number of penetrations should be minimized.</i>		
<ul style="list-style-type: none"> <li>○ Watertight</li> <li>○ Free of sluice valves</li> </ul>		
<input type="checkbox"/> Hull structure	116.300	02199
	MSM.71/B.1.B.1	
	115.700	
	2.15(a)(2)	
	177.10-1	
<ul style="list-style-type: none"> <li>○ Damage, wastage and fractures</li> <li>○ No unauthorized repairs</li> </ul>		02106
		02199
<b>Welding Repair Inspection (WR)</b>		
<input type="checkbox"/> Steel and aluminum structural repair proposals	177.10-1	02199
	115.700(d)	
	116.300	
	NVIC 7-68 IV	
	ABS 2-4-1/5.19	
	2.01-15(a)(2)	
<ul style="list-style-type: none"> <li>○ Extent of damage and/or wastage/corrosion</li> <li>○ Repair proposal</li> </ul>	115.700(d)	
	NVIC 7-68 IV	
	115.700(d)	



## Drydock & ISE Addendum

Action	Ref	Code
<ul style="list-style-type: none"> <li>○ Repair materials</li> <li>○ Welding procedures</li> <li>○ Alternative repair methods for equivalency</li> <li>○ Welder's proficiency &amp; qualifications</li> </ul>	NVIC 7-68 IV 115.700(d) NVIC 7-68 IV 115.700(d) <a href="#">116.340</a> 115.700(d)	
<input type="checkbox"/> Aluminum fit-up <ul style="list-style-type: none"> <li>○ Material &amp; fitted with approved joint detail</li> <li>○ Materials (base, filler, gas)</li> <li>○ Welding processes</li> </ul>	116.300(b) NVICs 7-68 & 11-80 ABS 30.1 ABS 30.1 ABS 30.1.3	02199
<input type="checkbox"/> Steel fit-up <ul style="list-style-type: none"> <li>○ Material &amp; fitted with approved joint detail</li> <li>○ Materials (base, filler, gas)</li> <li>○ Welding processes</li> </ul>	116.300(a) NVIC 7-68 V ABS 2-4-1/3 115.700(b) ABS 2-1-1/1.1 115.700(b)	02199
<input type="checkbox"/> Defects in welds <ul style="list-style-type: none"> <li>○ Examine welds for uniformity and reinforcement</li> <li>○ Examine welds for porosity, overlap, undercut, cracks, slugging and slag inclusion</li> <li>○ Examine adjacent base metal for injurious arc strikes, spatter and sharp or deep undercut</li> </ul>	115.700(b) 116.300 ABS 2-4-1/5.15.1 ABS 30.5.8 (Aluminum) NVIC 7-68 V(H) ABS 2-4-1/5.15.1 ABS 30.5.8 (Aluminum) NVIC 7-68 V(H) ABS 2-4-1/5.15.1 ABS 30.5.10 (Aluminum)	02199
<input type="checkbox"/> Back gouge (if used) <ul style="list-style-type: none"> <li>○ Examine welds for defects (discontinuity)</li> <li>○ Proper weld sequencing</li> <li>○ Joints are cleaned between interpasses</li> </ul>	115.700(b) 116.300 NVIC 7-68 V(G)(2) ABS 2-4-1/5.9 NVIC 7-68 V(F) ABS 2-4-1/5.3 ABS 30.5.5 (Aluminum) NVIC 7-68 V(E) ABS 2-4-1/3.5 ABS 30.5.3 (Aluminum)	02199

## Drydock & ISE Addendum

Action	Ref	ode
<b>Nondestructive Testing (NT)</b>		
<input type="checkbox"/> Verify nondestructive testing (NDT) method		02199
<input type="checkbox"/> Individual's knowledge of method and/or technician's qualification and certification	115.700(d) NVIC 7-68 9(V)(A) ABS 2-4-1/5.17 ABS NDT Guide 4/1	
<input type="checkbox"/> Calibration / preparation		
<input type="checkbox"/> Technician examine/interpret readings		
<input type="checkbox"/> Evaluate test results or review technician's report <ul style="list-style-type: none"> <li>• <i>Magnetic Particle</i></li> <li>• <i>Radiography (x rays)</i></li> <li>• <i>Ultrasonic</i></li> <li>• <i>Hydrostatic</i></li> <li>• <i>Pneumatic</i></li> </ul>	ABS NDT Guide 5/5 ABS NDT Guide 2/9 ABS NDT Guide 3/11 ABS 3-7-1/5.5 ABS 3-7-1/5.7	

TABLE 26—CROSSWALK OF FIRST-AID KIT CONTENT REQUIREMENTS

Item	Number of items required		
	Lifeboats and rescue boat requirements under § 160.041-4	Liferaft and IBA requirements under § 160.054-4	ISO 18813 requirements
Adhesive Plasters .....	32 1-inch waterproof bandages ...	16 1-inch waterproof bandages ...	20 bandages in assorted sizes.
Ammonia Inhalants .....	10 .....	10 .....	0.
Analgescic Medication .....	50 doses .....	20 doses .....	48 doses.
Antiseptic Preparations .....	10 iodine swabs .....	10 iodine swabs .....	10 applications.
Burn Preparations .....	0 .....	0 .....	12 applications.
Compression Bandage (for wounds).	5 4-inch bandages 8 2-inch bandages.	1 4-inch bandage 4 2-inch bandages.	10 sterile bandages in assorted sizes.
Compression Bandage (for securing splints, dressings, etc.).	2 2-inch-by-6-yard bandages .....	2 2-inch-by-6-yard bandages .....	4 meters (4.4 yards) of adhesive elastic bandage.
Eye Dressing Packet .....	3 .....	3 .....	0.
Instructions .....	1 .....	1 .....	1.
Sterile Gauze Compress .....	12 3-by-18-inch compresses .....	4 3-by-18-inch compresses .....	2.
Tourniquet, with forceps, scissors and pins.	1, 1, 1, and 12, respectively .....	1, 1, 1, and 12, respectively .....	0.
Triangle Bandage .....	3 40-inch bandages .....	0 .....	2.
Waterproof Container .....	1 .....	1 .....	1.
Wire Splint .....	1 .....	1 .....	0.

Equivalent First Aid Kit Contents  
87 FR 68290