

United States Coast Guard



T-BOAT INSPECTION BOOK Inspector Reference Guide

MISLE Activity #		Risk Tier:
Name of Vessel:		
Official Number:		
Date:	Location:	
Inspectors:		
SOLAS: <input type="checkbox"/> Yes	O/N Pax: <input type="checkbox"/>	Covered SPV: <input type="checkbox"/>
Route		
<input type="checkbox"/> Oceans <i>> 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
Inspection Type		
<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:
SIP <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> In Service	SMS <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Voluntary

Rev: Jul 2024
CVC-FM-840T(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 175.100 will be listed as 175.100. If the cite is from another Title it will be listed as 33-164.30 for 33 CFR 164.30.

-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 T regulations when conducting inspections on SOLAS applicable vessels. The cites will not list the SOLAS year.

-CFR cite colors:

All Ships – Black, Old-T – Green, New-T – 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 1,4-44

Wood Vessel – COI/Annual Inspection: Pages 1,4-44,56-57

Sail Vessel – COI/Annual Inspection: Pages 1,4-44,54-55

This Inspector Reference Guide is maintained by CG-CVC-1. Please submit any change requests to 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.

Table of Contents

- 1 – Annual Focus Areas5
- 2 – Dockside Assessment (DA).....6
- 3 – Certificates & Documents (CD).....7
- 4 – Logs & Manuals (LM).....9
- 5 – Bridge/Navigation (BN).....10
- 6 – General Health & Safety (GH).....13
- 7 – Lifesaving Equipment (LS).....15
- 8 – Firefighting Systems (FF).....21
- 9 – Machinery and Auxiliary Machinery (MI).....26
- 10 – Electrical Systems (ES).....32
- 11 – Structural/Watertight Integrity (SW).....36
- 12 – Pollution Prevention (PP).....37
- 13 – Topside Equipment (TE).....38
- 14 – Human Factors & Safety Culture.....39
- 15 – Emergency Drills General.....41
- 16 – Fire Drill.....42
- 17 – Man Overboard Drill43
- 18 – Abandon Ship Drill44
- 18 – Passenger Egress Drill44
- International Voyage Addendum.....46
- Sail Vessel Addendum.....55
- Wood Vessel Addendum.....58
- Drydock & Internal Structure Exam Addendum.....60

◆Section 1: Annual Focus Areas: 2024-25

Action	Ref	Code
<input type="checkbox"/> Means of escape <ul style="list-style-type: none"> ○ Verify marking ○ Ensure unobstructed ○ Verify ladders > 7" from bulkhead behind ○ Verify footholds, handholds, ladders are rigid construction, and permanently fixed in position or can be unfolded for immediate use ○ Inspector: go through each hatch, door, etc. used as part of means of escape 	185.606 175.400 (definition of means of escape) 177.500(k) 177.500(m)	01310 07120
<input type="checkbox"/> Trash cans <ul style="list-style-type: none"> ○ Noncombustible ○ No openings in side or bottom ○ Located in common areas 	177.405(f)	07199
<input type="checkbox"/> Crew overnight accommodations <ul style="list-style-type: none"> ○ Must be provided if operating more than 12 hrs unless crew is <u>put ashore</u> and new crew provided* <p style="margin-left: 40px;"><i>*Different than "alternate crew provided" for manning</i></p>	177.710	09114
<input type="checkbox"/> MISLE Entry <ul style="list-style-type: none"> ○ Verify drainage type entered under "Hull" --> "Systems" ○ If vessel meets subdivision: <ul style="list-style-type: none"> ▪ Enter bulkheads under "Hull" --> "Decks and Fittings" ○ If vessel meets Subchapter S subdivision, under "Hull" --> "Systems" --> "Standard Subdivision", enter subdivision type (most vessels Type II) ○ If vessel meets Simplified Subdivision, under "Hull" --> "Systems" --> "Other Subdivision", enter "<i>Simplified, 46 CFR 179.220</i>" 		

Section 2: Dockside Assessment (DA)

Action	Ref	Code
□ Initial vessel visual examination.		
○ Presence of anchor(s) (<i>when visible</i>)	184.300	09228
○ Draught (draft) marks & load marks (>65' or SOLAS)	185.602	03199
○ Load Line & Deckline (>79' or SOLAS)	175.122	
○ IMO Hull marking (SOLAS)	SOLAS XI-1/3	02120
○ Machinery space marking (SOLAS)	SOLAS XI-1/3	
○ Name and hailing port/State number	185.602	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 33-173.27 33-181.23	
• <i>State documented vessels are to be marked as required by the state which is regulated under 33 CFR 173.27.</i>		
• <i>State numbers are required on both sides of the bow.</i>		
○ Signs of pollution/illegal discharge on hull	33-151.10 33-155.330 33-155.350	14199
○ Hull condition	176.802	02106
○ Visible shell damage, bulwarks, rails and guards	176.802	03113
○ Examine means of embarkation (gangway/ladders)	29-1915.74(a)(6)	09223
○ Condition of mooring lines	184.300	09227

Section 3: Certificates & Documents (CD)

Action	Ref	Code
◆ □ Certificate of Inspection (COI)		CG001
○ Presence of original	176.302	
○ Routes & Conditions, and amendments	176.120	
○ Manning	MSM III/B.2.C 15.501	
○ Certificate is endorsed	176.500(b)(1)(ii)	
○ SPV Decal is posted	176.802(a)(3) 176.310	
◆ □ Vessel's stability letter	170.120	01326
○ Presence of stability documents	178.210	
	178.220	01326
○ Required contents	176.306 178.230	
◆ □ Merchant Mariner Credentials (MMCs)		01201
○ MMCs meet COI manning requirements	15.515	
• <i>Route</i>	10.205(g)	
• <i>Position</i>	15.805(a)(4)	
• <i>Tonnage</i>	15.810(b)(1)	
○ Presence of original MMCs	185.402	
○ Validity	10.205(a)	
○ Senior Deckhand (<i>if applicable</i>)	10.205(b) MSM III B.2.C NVIC 1-91, & CH. 1	
□ 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>)	185.212 185.210	
○ Training of designated testing crewmember (<i>when applicable</i>)	4.06-15 4.06-20(a)(3) 4.06-20(b)(2)	
○ 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	185.210 185.212 4.06-15	
◆ □ Maintenance and service records		
○ Firefighting service reports	176.810	07199
○ Liferaft servicing reports	185.730	11199
□ Vessel General Permit (VGP) (>79')		99103
○ Notice of Intent (NOI) has been submitted	VGP 1.5.1.1 & 10	
○ Compliance with ballast water record keeping requirements	VGP Table 1 CG-543 Policy Ltr 11-01 VGP 4.3	

Section 3: Certificates & Documents (CD)

Action	Ref	Code
<ul style="list-style-type: none"> ○ Noncompliance & reportable quantity reports have been submitted 	CG-543 Policy Ltr 11-01 VGP 4.4.1 VGP 4.4.2 CG-543 PL 11-01	99103
<ul style="list-style-type: none"> ◆ □ Muster lists and emergency instructions <ul style="list-style-type: none"> ○ Muster lists and emergency instructions are available <ul style="list-style-type: none"> • <i>Fire, heavy weather, man overboard</i> ○ Station bill (>65' & ≥ 4 crew) ○ Posted at operating station & in a conspicuous location in each crew accommodation space. ○ Passenger safety bill 	185.510 185.512 185.510 185.514 185.510(a) 185.514 185.515	04108
<ul style="list-style-type: none"> ◆ □ Certificate of Documentation (COD) (≥ 5 NT) or Commercial State Registration <ul style="list-style-type: none"> ○ Presence of original ○ Endorsement(s) for current service(s) ○ Validity <p style="margin-left: 20px;">State registered: If vessel is non-US Built, refer to USCBP JADE: jonesact@cbp.dhs.gov</p> 	67.313 67.321 67.17 67.19 67.161 67.163	CG003
<ul style="list-style-type: none"> □ Federal Communications Commission Marine Radio Operator Permit 	47-80.159(e)	01104
<ul style="list-style-type: none"> □ Federal Communications Commission Bridge-to-Bridge Certificate (>65') <ul style="list-style-type: none"> ○ Presence ○ Validity ○ Contents <ul style="list-style-type: none"> • <i>The VHF radiotelephone must have operating capability on Channels 13 (156.650 MHz) and 22A (157.100 MHz).</i> 	47-80.1001 47-80.1005 47-80.1005	01104
<ul style="list-style-type: none"> □ Federal Communications Commission Station License <ul style="list-style-type: none"> ○ Presence ○ Other classes of equipment are authorized for operation ○ Contents ○ Validity 	47-80.13 47-80.17(a)(4) 47-80.99 47-80.25	05103
<ul style="list-style-type: none"> □ Federal Communications Commission Safety Radiotelephony Certificate <ul style="list-style-type: none"> ○ Presence ○ Validity ○ Contents 	47-80.59(a)(2) 47-80.901 47-80.933 47-80.59	05103

Section 4: Logs and Manuals (LM)

Action	Ref	Code
♦ □ Vessel's log		
♦ ○ EPIRB tests (<i>high seas, >3nm</i>)	185.728	01305
• <i>Monthly</i>		
♦ ○ Drills	185.524	01305
• <i>Date/Description</i>	185.520	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	185.702(d)	01305
• <i>Instructions onboard (>65')</i>		
• <i>Falls End-End (30 months)/ Replace (5 years)</i>		
○ Covered SPV logging requirements		01305
• <i>Crew egress training (monthly, new crew)</i>	185.420(b)(3)	
• <i>Overnight only: Passenger egress drills</i>	185.507(b)	
□ Waste/Garbage Management Plan (<i>Route >3nm, Domestic</i>)	184.702	14503
○ Management Plan (>40')	33-151.51	14502
○ Placard (>26')	33-151.57	01320
○ Placard (>26')	33-151.59	
□ Crew and passenger list maintained (Ocean/Coastwise [O\C] and overnight or disembark or embark at different ports).	185.502	10127
□ Voyage plan prepared (O/C or overnight).	185.503	10127
□ Passenger count.	185.504	10127
♦ □ Safety orientation.	185.506	11131
□ <i>Overnight only: Passenger egress drill</i>	185.507(a)	

Section 5: Bridge/Navigation (BN)

Action	Ref	Code
<ul style="list-style-type: none"> ◆□ Operations of internal communication and control systems <ul style="list-style-type: none"> ○ Means of communication from operating station to propulsion machinery space (<i>Pilothouse, Aux Steering</i>) ○ Operation of Public Address System <ul style="list-style-type: none"> • <i>Fixed</i> • <i><65' Bullhorn</i> • <i><65' & <49 pax N/A if Operating Station is suitable</i> ○ Two independent means of controlling each propulsion engine <ul style="list-style-type: none"> • <i>Except multiple engine vessels w/independent control systems</i> 	<ul style="list-style-type: none"> 184.602 184.115(a) 184.610 184.620 	<ul style="list-style-type: none"> 04116 04101 13199
<ul style="list-style-type: none"> □ Radar(s) (<i>>49 pax, O/LC/GL</i>) <ul style="list-style-type: none"> ○ Safety precautions are followed ○ Verify operation 	<ul style="list-style-type: none"> Operation Manual 184.404 184.115(a) 	<ul style="list-style-type: none"> 10103
<ul style="list-style-type: none"> □ Magnetic compass (<i>All, except Rivers, Non-self-propelled, short-LBS</i>) <ul style="list-style-type: none"> ○ Illumination (<i>Nighttime Ops</i>) <ul style="list-style-type: none"> • <i>(New T + OCMI discretion)</i> ○ Mounting location ○ Operation 	<ul style="list-style-type: none"> 184.115(a) 184.402(c) 184.402(a) 	<ul style="list-style-type: none"> 10105
<ul style="list-style-type: none"> □ Electronic position-fixing device (satellite navigation (GPS) receiver) (<i>Oceans route</i>) <ul style="list-style-type: none"> • <i>(New T + OCMI discretion)</i> 	<ul style="list-style-type: none"> 184.410 184.115(a) Operation Manual 	<ul style="list-style-type: none"> 10115
<ul style="list-style-type: none"> □ Radio telephone equipment (<i>>20m, power-driven</i>) <ul style="list-style-type: none"> ○ Installation(s) ○ Equipment for operational area(s) ○ Emergency broadcast placard ○ Functional test <ul style="list-style-type: none"> • <i>(c) If the cognizant OCMI determines that there is no suitable mounting surface aboard the vessel, the emergency instructions need not be posted but must be carried aboard the vessel and be available to the crew for familiarization.</i> • <i>46 CFR 185.512 - Recommended emergency instructions format – An emergency instruction placard containing the following information will satisfy the requirements of 185.510.</i> 	<ul style="list-style-type: none"> 184.502 47-80.1003 47-80.1015 47-80.1069 184.506 47-80.931 184.510 	<ul style="list-style-type: none"> 05103

(a) Emergency instructions – (1) Rough weather at sea, crossing hazardous bars, or flooding.
 (2) Man overboard.
 (3) Fire

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	33-83.20(b) COLREG Rule 20 183.420	10109
<input type="checkbox"/> Operation of navigation and anchor lights	33-Part 84	
<input type="checkbox"/> Dayshapes	33-83.20(d) COLREG Rule 20 33-81.9	
<input type="checkbox"/> <i>Certificate of Alternate Compliance</i>		
<input type="checkbox"/> Sound signaling devices	33-83.33 COLREG Rule 33	10109
<input type="checkbox"/> Presence of signaling device		
<input type="checkbox"/> Operation of whistle and bell (>12m)		
<input type="checkbox"/> <i>NLT 12" for a vsl $\geq 65'$</i>		
<input type="checkbox"/> <i>NLT 8" for a vsl 40' – 65'</i>		
<input type="checkbox"/> <i>< 36' (12 m) not required to have a bell</i>		
<input type="checkbox"/> Navigational publications and nautical charts (as appropriate for route)	184.420	
<input type="checkbox"/> Charts (ENCs: See <i>NVIC 01-16 Ch. 2</i>)		10111/10112
<input type="checkbox"/> Tide Tables		10116
<input type="checkbox"/> River Current publication or Current tables		
<input type="checkbox"/> Coast Guard Light List		
<input type="checkbox"/> U.S. Coast Pilot		
<input type="checkbox"/> Inland Navigation Rules ($\geq 12m$)	33-83.01(g)	
<i>Copies or excerpts are allowed.</i>		
<input type="checkbox"/> Steering system controls at operating station	182.610(a)-(c) 176.25-35 182.30-1	13199
<input type="checkbox"/> Operation and control		
<input type="checkbox"/> Operation of rudder angle indicator (<i>Power-driven main steering</i>)	176.814 182.610(f)(2)	13199

Section 5: Bridge/Navigation (BN)

Action	Ref	Code
<ul style="list-style-type: none"> ○ Steering gear transfer instructions are posted (>65', <i>Aux Steering</i>) ○ Visual means to indicate operation of power unit(s) (>65') 	<p>182.610(g)(2)</p> <p>182.610(g)(1)</p>	13199
<p>◆ □ Alarms and gauges at operating station</p> <ul style="list-style-type: none"> ○ Bilge high level alarms (>26') ○ Automatic bilge pump indicator ○ Flammable vapor detection system (<i>Gasoline</i>) ○ Propulsion engine gauges <ul style="list-style-type: none"> • <i>RPM, JW discharge temp, LO pressure (RPM not required for Old T)</i> ○ Audible or visual alarm for exhaust cooling system (<i>Wet Exhaust</i>) 	<p>182.530(a)-(b)</p> <p>182.530(c)</p> <p>182.480(a)</p> <p>182.480(d)</p> <p>182.410(b)</p> <p>182.425(b)(5)</p>	08199
<p>◆ □ Distress signals</p> <ul style="list-style-type: none"> ○ USCG type approval ○ Quantity in accordance with vessel's route <ul style="list-style-type: none"> • <i>O/C/LC - 6 hand red flare distress signals & 6 hand orange smoke signals</i> • <i>LBS/R - 3 hand red flare distress signals & 3 hand orange smoke signals</i> • <i>may substitute red hand flares for orange smoke</i> • <i>vsls on short runs limited to 30 mins do not need to carry distress signals</i> ○ Expiration date ○ Stowed in brightly colored, portable watertight container or pyrotechnic locker ○ Marked "Distress Signals" 	<p>180.68</p> <p>160.121</p> <p>160.037</p> <p>160.036</p> <p>180.68</p> <p>180.68(c)</p> <p>180.68(d)</p> <p>185.726(c)</p> <p>180.68(e)</p> <p>185.614</p>	11116
<p>◆ □ Watch monitoring device - <i>Overnight only</i></p> <ul style="list-style-type: none"> ○ <i>Keeps watchman awake</i> ○ <i>Alerts other crew if watchman is not awake</i> 	185.410(b)	08199

Section 6: General Health & Safety (GH)

Action	Ref	Code
□ Upper decks marked for maximum number of PAX as per stability letter	185.602(g)	01310
◆□ Accommodations (Crew & Passenger)		09198
○ Location	177.800 177.25	
○ Number of berths	177.710 177.30-7	09114
○ Spaces are of appropriate size	177.810 177.800	09117
○ Accessibility to escape routes	177.810 177.500 177.15-1	07120
◆ Overnight only: Not above or dependent on a berth	177.500(n)	
◆○ Ventilation	177.600(c)	09103
○ Sanitary condition	176.818	09114
◆○ General alarm is adequate	183.550	08101
• All vsls with overnight accommodations; public address system may be used.		
○ Interconnected smoke detection & alarm units in passenger spaces (see Section 8: Fire Safety)	181.405(c)	07106
□ Structural Fire Protection	177.405	07101/
○ Noncombustible trim	177.410	03/05
○ Fire-resistant furnishings	177.10-1 177.10-5	09116
• Must comply with 116.423		
◆□ 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	177.500 177.15-1	
• Exemption for 2 escapes in 177.500(p)		
• Overnight only: Not above or dependent on a berth	177.500(n)	
• Overnight only: 2 means lead to separate spaces or open deck, see CVC PL 23-03	177.500(b)	
◆○ Routes are accessible	177.500	
◆○ Emergency lighting	183.432 184.30-5	04103
○ Markings	185.606	07120
• "EMERGENCY EXIT, KEEP CLEAR", 2 in.		
□ Mess deck and galley spaces		
○ Sanitary conditions	176.818	09106
○ Cooking fuel restrictions – <i>no gasoline, no open flames</i>	MSM A.6.C 184.202	09124

Section 6: General Health & Safety (GH)

Action	Ref	Code
<ul style="list-style-type: none"> ○ Cooking equipment requirements -- <i>Grab rails, locking, fitted for use in heavy seas</i> 	184.220 ABYC A-3,A-7 184.200	09124
<ul style="list-style-type: none"> ○ LPG and LNG cooking systems <ul style="list-style-type: none"> ● <i>Remote shutoff valve (if system in enclosed space)</i> 	NFPA 302 184.240	09124
<ul style="list-style-type: none"> ○ Condition of vents and ducts <ul style="list-style-type: none"> ● <i>Ducts above frying vats or grills constructed of >11-gauge steel</i> 	177.600(d)	09201
<ul style="list-style-type: none"> ○ Structural fire protection surrounding cooking and heating appliances 	177.410(c)(1) 177.10-5	07101/3/5
<ul style="list-style-type: none"> ○ Grease extraction hood <ul style="list-style-type: none"> ● <i>Meet UL 710 & be equipped with a dry or wet chemical fire extinguishing system</i> 	181.425	07109
<hr/>		
<ul style="list-style-type: none"> □ Portable lights <ul style="list-style-type: none"> ○ At least 2 onboard ○ Located at operating station & at access to propulsion machinery space 	183.430	04103
<hr/>		
<ul style="list-style-type: none"> □ No unsafe conditions or practices exist <ul style="list-style-type: none"> ○ Slips, trips, falls ○ Sharp edges ○ Swinging loads/gear adrift 	176.830	09298
<hr/>		
<ul style="list-style-type: none"> □ Paint locker(s) <ul style="list-style-type: none"> ● <i>Enclosed space used to store paint or other flammables</i> 		
<ul style="list-style-type: none"> ○ Fire protection equipment 	181.20-1 181.400(a)(7)	07109
<ul style="list-style-type: none"> ○ Space construction material <ul style="list-style-type: none"> ● <i>Steel or equivalent</i> 	177.405(d) 177.10-5(c)	07101
<ul style="list-style-type: none"> ○ Electrical installations <ul style="list-style-type: none"> ● <i>Class 1 Div 1 space must be explosion proof or intrinsically safe</i> 	183.530(b) 183.530(c) 111.105	02108
<ul style="list-style-type: none"> ○ Means to secure ventilation <ul style="list-style-type: none"> ● <i>Power ventilation must have means of being shut down from pilot house</i> 	177.600(b)	09201
<hr/>		
<ul style="list-style-type: none"> □ First aid kit <ul style="list-style-type: none"> ○ Marked "First Aid Kit" ○ Watertight container ○ Easily visible & readily available to crew ○ USCG approved or equivalent (see page 66 for equivalent contents list) 	184.710 160.041	09112
<hr/>		
<ul style="list-style-type: none"> □ Hazardous items (e.g. lithium-ion batteries, including phones & cameras) <ul style="list-style-type: none"> ○ <i>Safe handling, storage, operation</i> 	185.364 CVC PL 20-03	07199

Section 7: Lifesaving Equipment (LS)

Action	Ref	Code
<ul style="list-style-type: none"> ◆ □ Emergency Position Indicating Radio Beacon (EPIRB) (<i>High seas or ≥ 3NM on Great Lakes</i>) <ul style="list-style-type: none"> ○ Registration 47- 80.1061(e)-(f) ○ Marked with vessel name 185.604(c) ○ Stowage 180.64 <ul style="list-style-type: none"> • <i>To automatically float free and activate</i> ○ Hydro-static release expiration date 185.740 ○ Battery date 185.728(b) 		05111
<ul style="list-style-type: none"> ◆ □ Life jackets <ul style="list-style-type: none"> ○ USCG type approval 180.71(c) 160.002 160.005 160.055 ○ Quantity 180.71(a)-(b) 11118 <ul style="list-style-type: none"> • <i>Adult lifejackets for each person on board; reqs for child size or extended sizes vary</i> ○ Stowage 180.78 185.604(f) <ul style="list-style-type: none"> • <i>Readily accessible & distributed throughout accommodation spaces</i> • <i>Containers not capable of being locked & when practical aloe life jackets to float free</i> • <i>Overhead stowage allows quick release</i> • <i>If stowed >7' above deck, release must be operable from the deck (not applicable to Old T vessels)</i> • <i>Container clearly marked with "Life preservers" & "Child" or "Adult" and quantity</i> • <i>Child-sized life jackets stowed separately</i> ○ Markings 180.71(e) 185.604(b)&(h) <ul style="list-style-type: none"> • <i>vessel name</i> • <i>retro-reflective material</i> ○ Lights 180.75 <ul style="list-style-type: none"> • <i>O/C/GL – must have USCG approved light (not required on ferries & vsls that do not operate > 20 NM from harbor of safe refuge)</i> ○ Location and information for donning instructions 185.516 ○ Condition and suitability 176.808(b),(d) <ul style="list-style-type: none"> • <i>Those found to not meet condition & suitability should be destroyed</i> ○ Inflatable life jackets must be serviced annually by approved facility ○ Each life jacket fitted with a whistle (SOLAS) 199.70(b)(4) 		11118
<ul style="list-style-type: none"> □ Personal Floatation Devices (<i>work vests</i>) carried in addition to lifejackets (<i>if present</i>) <ul style="list-style-type: none"> ○ USCG approval 160.064 ○ Serviceable condition 160.053 		11118

Section 7: Lifesaving Equipment (LS)

Action	Ref	Code
○ Inflatable PFDs serviced by an approved facility annually	180.72(d)(1)	11118
○ Stowed separately and in a manner so as to not be confused with pax lifejackets	180.78(b)	
<hr/>		
◆□ Ring Life Buoys		11117
○ USCG type approval	180.70(b)(1) 160.050	
○ Quantity & size	180.70(a),(b)	
• ≤ 26' → 1x 20"		
• 26' < X ≤ 65' → 1x 24"		
• >65' → 3x 24"		
○ Stowage	180.70(b)	
• <i>Rapidly cast loose</i>		
• <i>Not permanently secured</i>		
○ Lifeline	180.70(c)	
• <i>At least 1 fitted with lifeline, if > 1 at least one not fitted with lifeline)</i>		
• <i>Buoyant</i>		
• <i>≥ 60'</i>		
• <i>Non-kinking</i>		
• <i>Dark color if synthetic, or resistant to UV light</i>		
○ Waterlight	180.70(d) 161.010	
• <i>Not required when limited to daytime operations</i>		
• <i>≥1 floating waterlight</i>		
• <i>3ft-6ft lanyard secured around body of RLB</i>		
• <i>If only one, attached to lanyard w/ corrosion resistant clip</i>		
• <i>Verify batteries</i>		
○ Markings	185.604 180.70(b) 160.050-3(b) 160.050-6 180.70	
• <i>O / C – orange</i>		
• <i>LC / GL / LBS / R can be white</i>		
• <i>Vessel name in block capital letters</i>		
• <i>Retro-reflective tape</i>		
○ Condition and suitability	176.808(b),(d)	
<hr/>		
◆□ Inflatable liferaft & inflatable buoyant apparatus installations		11108
○ USCG type approval	180.200(a)(1),(3)	11130
○ Quantity (<i>route dependent, always verify with Table 180.200(c)</i>)	180.200(c) Table	11108
○ Stowage	180.130	11108
• <i>Secured to vsl by a painter with a float-free link permanently attached to the vsl</i>		
• <i>Floats free and inflates automatically</i>		

Section 7: Lifesaving Equipment (LS)

Action	Ref	Code
<ul style="list-style-type: none"> • <i>Readily accessible to crew for quick launch</i> • <i>Fully equipped as required by 180.175(b),(c)</i> • <i>Sheltered from breaking seas and fire damage</i> • <i>Stowed to prevent shifting</i> 		
○ Markings	181.175(b),(c)	11108
<ul style="list-style-type: none"> • <i>Vessel Name</i> • <i>Port of registry</i> 	185.518 160.151-33	
○ Annual service dates	185.730(a)	11135
<ul style="list-style-type: none"> • <i>Every 12 months</i> • <i>Immediately if container is damaged or seals or straps are broken</i> 		
○ Launching instructions are posted	185.518	11131
○ CG approved embarkation ladder (<i>required when embarkation station is >10' from lightest operating waterline</i>)	180.150(b)	11124
○ Servicing/expiration of hydrostatic release	185.740	11132
○ Hydrostatic release installed correctly	180.130(a)(2),(b)	11108
◆ □ Lifefloat & Buoyant Apparatus installations		11127
○ USCG type approval	180.200(a)(2)	11130
○ Quantity (<i>route dependent</i>)	180.200(c) Table	11127
○ Stowage	180.137	11127
<ul style="list-style-type: none"> • <i>Secured with CG approved weak link that is of proper strength for the capacity of the survival craft & that is attached at one end to the painter and the other end to the vessel</i> • <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> • <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> • <i>If a single painter is used for ≥ 2 life floats/buoyant apparatus, ensure that:</i> <ul style="list-style-type: none"> ▪ <i>The total weight of the devices does not exceed 400lb</i> ▪ <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> 		

Section 7: Lifesaving Equipment (LS)

Action	Ref	Code
<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> ▪ <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> ▪ <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> 		
○ Markings	185.604(a) 160.010-8	11127
<ul style="list-style-type: none"> ● <i>Vessel name</i> ● <i>Capacity</i> ● <i>Retro-reflective tape</i> 		
○ Embarkation ladder <i>(required when embarkation station is > 10ft from lightest operating waterline)</i>	180.150(b)	11124
○ Required equipment	180.175(d)-(f)	11110
<ul style="list-style-type: none"> ● <i>Lifeline and pendants (as furnished by manufacturer, replacements must meet 160.10)</i> ● <i>Paddle (≥ 4ft long lashed to LF/BA & buoyant)</i> ● <i>Painter (≥ 100ft, not < 3x's distance between stowed deck & waterline; breaking strength of ≥1,500lb unless capacity is ≥ 50 ppl, then ≥ 3,000lb)</i> ● <i>Light (Waterlight, attached around body of LF/BA with a UV resistant 3/8in lanyard, ≥ 18ft)</i> 		
○ Launching instructions are posted	185.518	11131
◆ □ Rescue boat	180.10-35	11104
○ > 65ft must carry at least one rescue boat unless OCMI determines:	180.210(a)	
<ul style="list-style-type: none"> ● <i>Sufficiently maneuverable, arranged & equipped to allow the crew to recover a helpless person from the water</i> ● <i>Recovery of a helpless person can be observed from the operating station; and</i> ● <i>Not regularly engaged in operations that restrict maneuverability</i> 		
○ ≤ 65ft is NOT required to carry a rescue boat unless:	180.210(b)	
<ul style="list-style-type: none"> ● <i>Carries PAX on an open or partially enclosed deck; and</i> ● <i>The OCMI determines the vsl is designed, arranged, or involved in operations so that the vsl itself cannot serve as an adequate rescue craft</i> 		

Section 7: Lifesaving Equipment (LS)

Action	Ref	Code
○ USCG type approval (<i>protected waters 160.056, exposed, partially protected waters 160.156</i>)	180.210(d) 160.056 160.156	11130
○ Stowage	185.700 180.130	11104
<ul style="list-style-type: none"> • <i>Deck where stowed or boarded must be kept clear of obstructions that would interfere with boarding and launching craft</i> • <i>Stowed to prevent shifting</i> • <i>Sheltered, as far as practicable, from breaking seas and fire damage</i> • <i>Ready for immediate use by crew</i> 		
○ Markings	185.604(i)	11104
<ul style="list-style-type: none"> • <i>Vessel name (each side of bow)</i> • <i>Capacity (each side of bow)</i> • <i>Retro-reflective tape</i> • <i>Information plate</i> 		
○ Required equipment	160.056-3(b)	11104
<ul style="list-style-type: none"> • <i>Pair of oars & painter ≥ 3/8" & ≥ 30'</i> • <i>SOLAS requirements for rescue boats</i> 		
○ Condition	185.700 180.210(c) 180.10-35	11104
<ul style="list-style-type: none"> • <i>Small, lightweight boat with built-in buoyancy</i> • <i>Capable of being readily launched</i> • <i>Easily maneuvered</i> • <i>Of adequate proportion to take an unconscious person onboard without capsizing</i> • <i>Good working order, ready for immediate use</i> 		
○ 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>)	176.808(g)	CG004
○ Rescue platform (if provided) <i>Vessels that are not required to carry a rescue boat may need a rescue platform to recover a person from the water. If the vessel is configured such a that a person can be recovered from the water without a platform, then no platform is required. It will be noted on the COI if the vessel is required to carry a rescue boat or a rescue platform.</i>	180.210	11104

Section 7: Lifesaving Equipment (LS)

Action	Ref	Code
<ul style="list-style-type: none"> ◆□ Launching appliance(s) <i>(davits & winches; provided for any survival craft weighing >200lb that requires lifting >1' vertically to launch or conditions met in 180.150(a) for inflatable survival craft)</i> <ul style="list-style-type: none"> ○ Materiel condition <ul style="list-style-type: none"> ● <i>Wastage, cracks, structural damage, blocks, fasteners, etc.</i> ○ Falls have been renewed at least every 5 years or when deteriorated ○ 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> ○ Automatic disengaging apparatus functions correctly ○ Operating instructions are posted 	<ul style="list-style-type: none"> 180.130(c) 180.150(c) 176.808 185.704(b) 185.704(a) 180.150(c) 185.518 	<ul style="list-style-type: none"> 11112/3 11131

Section 8: Firefighting System (FF)

Action	Ref	Code
<ul style="list-style-type: none"> ◆ □ Fire main and pump (<i>Piping must be non-ferrous metal IAW 182.710</i>) - <i>A vsl not required to have a power driven fire pump by 181.300 must have ≥ 3 - 2.5 gal. buckets, with an attached lanyard satisfactory to the cognizant OCMI, placed so as to be easily available during an emergency. The words "FIRE BUCKET" must be stenciled in a contrasting color on each bucket IAW 181.610. All vessels shall be provided with a hand operated fire pump with a capacity of at least 5 gpm (may also serve as bilge pump)</i> <ul style="list-style-type: none"> ○ Capable of providing adequate pressure 181.300(a) ○ Vessel ≤ 65 ft & > 49 pax; or vessels > 65 ft – 50 GPM & pressure of 60 psi at pump 181.300(c) ○ Ferry Vessel ≤ 65 ft & ≤ 49 pax 181.300(c) <ul style="list-style-type: none"> • 10 GPM & project a hose stream from the highest hydrant through hose & nozzle a distance of 25' ○ Self-priming & power driven 181.310(c) <ul style="list-style-type: none"> • May be connected to bilge system to meet 182.520 181.300(b) ○ Fitted with gauge 181.300(e) <ul style="list-style-type: none"> • ≤ 65' & >49 pax; or > 65' ○ Location of controls and markings 181.300(e) <ul style="list-style-type: none"> • <i>Main operating station and local</i> ○ Operation of fire pump from remote control(s) 181.310 ○ Material condition of system 182.710 <ul style="list-style-type: none"> • <i>No excessive leaking</i> 		07110/3
<ul style="list-style-type: none"> □ Fire stations 181.310(a) <ul style="list-style-type: none"> ○ A fire hose with a nozzle must be attached to each fire hydrant at all time 181.15-5 181.320(a) ○ Number of hydrants 181.310(a) <ul style="list-style-type: none"> • <i>A vsl that has a power driven fire pump must have a sufficient number of fire hydrants to reach any part of the vsl using a single length of hose.</i> ○ Hoses meet required length, size, markings and quantity 181.310(a) 181.320(b)-(c) 181.15-10 CVC PL 18-04 <ul style="list-style-type: none"> • <i>≤65' & >49 pax; OR >65' Commercial line fire hose (UL 19), 1.5" in diameter & 50' in length (vsIs with 1.5" hoses require a spanner wrench at each hydrant); Fittings of brass or other suitable (corrosion resistant) material (NFPA 1963); Nozzle must be</i> 		07110/3

Section 8: Firefighting System (FF)

Action	Ref	Code
<p><i>approved under 46 CFR 162.027 or type recognized by Commandant.</i></p> <ul style="list-style-type: none"> • <i>≤65' & ≤49 pax - May have a garden hose ≥0.625" in diameter & ≥25' but ≤50' with suitable construction; Nozzle must be corrosion resistant & be able to switch from stream to spray.</i> 		
<ul style="list-style-type: none"> ○ Operation of valves at fire stations <ul style="list-style-type: none"> • <i>Each hydrant must have a valve to allow the hose to be removed while F/M is under pressure.</i> 	181.310(c)	07110/3
<p>◆ □ Fire Bucket</p> <ul style="list-style-type: none"> ○ Verify size – 2.5 Gallons ○ Verify quantity – 3 ○ Verify lanyard – Up to OCMI ○ Verify marking – “FIRE BUCKET” in <i>contrasting colors</i> 	181.610	07110
<p>◆ □ Portable fire extinguishers</p> <ul style="list-style-type: none"> ○ Location and stowage <ul style="list-style-type: none"> • <i>Clearly visible, readily accessible from space being protected to the satisfaction of the OCMI.</i> ○ Servicing compliance <ul style="list-style-type: none"> • <i>Annual service IAW NFPA 10</i> ○ Condition of cylinder(s) and hose(s) ○ Presence of required type & quantity 	181.500 181.520 181.30 / 181.500 176.810 NFPA 10 Ch. 4,7,8 NFPA 10 Ch 7 176.810 181.500(b) CVC PL 18-04	07110
<p>◆ □ Semi-portable firefighting equipment</p> <ul style="list-style-type: none"> ○ Location and stowage <ul style="list-style-type: none"> • <i>Clearly visible, readily accessible from space being protected to the satisfaction of the OCMI.</i> ○ Servicing compliance <ul style="list-style-type: none"> • <i>Annual service IAW NFPA 10</i> ○ Condition of cylinder(s) and hose(s) ○ Presence of required type & quantity 	181.500 181.520 181.30-12 / 181.500 176.810 NFPA 10 Ch. 4,7,8 NFPA 10 Ch 7 176.810 181.500(c)&(d) CVC PL 18-04	07110
<p>□ Fire axe(s)</p> <ul style="list-style-type: none"> • <i>> 65' must have at least one fire axe located in or adjacent to the primary operating station</i> 	181.600 181.35-1	07110

Section 8: Firefighting System (FF)

Action	Ref	Code
○ Materiel condition of system components	181.20-15 181.410(c)	07109
● <i>Controls and valves must be located outside the protected space</i>	181.410(b)(4)	
● <i>Must have remote controls in a break glass enclosure</i>	181.410(b)(3)	
● <i>Must have manual controls at the storage cylinders</i>		
○ Piping and nozzles are clear	176.810(a)	
○ Operational test of time delays, alarms and shutdowns	176.810(b)(2)	
○ Markings and warning signs are posted	185.612(b)	
○ Operating instructions are posted	185.612(a)	
◆ □ Pre-engineered fixed gas fire extinguishing systems (<i>when applicable under – 46 CFR 181.400(b)(2)</i>)		07109
○ Determine if approved	181.420(a)(1)	
● <i>Only one pre-engineered system per protected space.</i>	181.420(c)	
○ Presence of manual actuation from outside of the space		
○ Presence of automatic actuator (heat detector)	181.420(a)(2)	
○ Witness system automatically shuts down power ventilation systems and engines that draw intake air from within protected space	181.420(a)(2) 181.420(a)(3)	07116
○ System is installed per manufacturer's instructions	181.420(a)(4) Manufacturer's Inst.	
○ Servicing requirements	176.810(b)(2)	07124
○ Operation of following from the operating station:	181.420(b)(1)	
● <i>Discharge indicating light</i>	181.420(b)(2)	
● <i>Discharge audible alarm</i>	181.420(b)(3)	
● <i>Means to reset automatically shut down ventilation systems and engines as required</i>		

Section 8: Firefighting System (FF)

Action	Ref	Code
◆ □ Fire and smoke detection systems		07106
○ Appropriate spaces are equipped	181.405	
● <i>Propulsion machinery space</i>	181.05-5	
● <i>Space containing internal combustion engine > 50hp</i>	177.410(c)(3)	
● <i>Space containing oil-fired boiler</i>		
● <i>Space containing machinery powered by gasoline or other fuel with a flashpoint of 110°F or lower</i>		
● <i>Griddles, boilers & deep fat fryers fitted with grease extraction hood (IAW 181.425)</i>		
● <i>An enclosed vehicle space must be fitted with a fire detection and alarm system of an approved type (installed IAW 46 CFR 76.27 & must be fitted with a sprinkler system IAW 76.25 – Chapter 25 NFPA 13)</i>		
● <i>Partially enclosed vehicle spaces must be fitted with a manual sprinkler system that meets the requirements of 46 CFR 76.</i>		
● INTERCONNECTED SMOKE DETECTORS in all enclosed areas routinely occupied by pax or crew	181.405(c) 181.450	
○ Witness system test	176.810(a)(7)	
○ Operation of control unit's visual and audible alarms (if applicable)		
○ Zoning (if present)	181.405(a)	
○ Location and spacing of detectors	76.27-5 76.27-10	
□ Structural fire protection on fiberglass hull		07101/ 03/05
○ Verify fire retardant resin (when applicable)	177.410(b) 181.115(b) 177.10-5	
● <i>Hull, bulkheads, decks, deckhouse, or superstructure of a vsl is partially or completely constructed of a composite material including FRP</i>		
○ Requirements for general purpose resin are met if used	177.410(c)	

Section 9: Machinery & Auxiliary Machinery (MI)

Action	Ref	Code
□ Steering gear	176.814	02105
○ Electrical, mechanical, and hydraulic connections and linkages of main and auxiliary (emergency) systems	182.30-1 182.610 MSM II/C.4.B	
◆ ○ Emergency steering required unless:	182.620	04106
• <i>Main steering and controls are provided in duplicate;</i>		
• <i>Multiple screw propulsion with independent pilothouse control for each screw and capable of being steered using pilothouse control;</i>		
• <i>No regular rudder is fitted & steering action is obtained by a change of setting of the propelling unit; or</i>		
• <i>Where a rudder & hand tiller are the main steering gear</i>		
○ Operation of communications between bridge and emergency steering station(s)	184.602(b) 184.115(a)	
• <i>Vsl equipped with aux means of steering must have a fixed means of two-way comms from the operating station to the local control of the aux steering control.</i>		
• <i>Hand held portable radios may be accepted as satisfying this requirement</i>		
○ Witness operational test of systems, in all modes of operation from emergency steering station(s)	185.320 182.610(b),(c),(f) 182.620	
• <i>Rudder stops, internal stops, function of limit switches and timing requirements for rudder movements.</i>		
○ Accuracy of rudder angle indicator (<i>when fitted with power driven main steering gear</i>)	182.610(f)(2)	
○ Steering control transfer procedures (<i>>65' with power driven main steering gear</i>)	182.610(g)(2)	
○ Witness operational test of auxiliary (emergency) steering arrangement (when fitted with emergency steering)	182.620(a),(b)	04106
• <i>15 degrees from one side to 15 degrees to the other in ≤ 60 sec with vsl at ½ max speed or 7 kts</i>	182.620(a)(2)	
□ Fuel oil service system	182.435, .440 182.20-22, -25	13199
○ Installation, arrangement & condition of piping, manifolds & filters		
• <i>All independent fuel tanks are electrically bonded to a common ground</i>	182.440(b)(4)	
• <i>Means to accurately determine amount of fuel in each tank</i>	182.445(b)	

Section 9: Machinery & Auxiliary Machinery (MI)

Action	Ref	Code
<ul style="list-style-type: none"> • <i>Each tank is fitted with an appropriately sized vent pipe connected to its highest point</i> 	182.450 182.15-35 (gas) 182.20-35 (diesel)	
<ul style="list-style-type: none"> • <i>Approved piping (material & size) is used in the fuel oil service system</i> 	182.445(a) 182.15-40 (gas) 182.20-40 (diesel)	
<ul style="list-style-type: none"> • <i>Shutoff valves fitted at tank connection (remote emergency shutoff valve; if located in machinery space, ≤ 12" w/in the space and shielded from flames) & engine end of fuel line</i> 	182.455(b)(4) 182.15-40(b)(3) (gas) 182.20-40(b)(3) (diesel)	
<ul style="list-style-type: none"> • <i>Suitable metal marine type strainer fitted in the engine compartment. Drip pan fitted w/ flame screen must be installed under gasoline strainers.</i> 	182.455(b)(6) 182.15-40(b)(5) (gas) 182.20-40(b)(5) (diesel)	
<ul style="list-style-type: none"> ○ Portable fuel system 	182.458 ABYC	13199
<ul style="list-style-type: none"> <ul style="list-style-type: none"> • <i>Only permitted for portable dewatering pumps or outboard motor installations</i> 	H-25	
<ul style="list-style-type: none"> ○ Witness tests of remote shutdown(s) 	182.455(b)(4) 182.15-40(b)(3) (gas) 182.20-40(b)(5) (diesel)	
<ul style="list-style-type: none"> ○ Nonmetallic flexible hoses and fittings 	182.720(e)	
<ul style="list-style-type: none"> <ul style="list-style-type: none"> • <i>Double hose clamps, lengths permitted, approved standards</i> 	182.410(d) 182.40-5 182.15-40(a) (gas) 182.20-40(a) (diesel)	
<hr/>		
<ul style="list-style-type: none"> □ Main propulsion system(s) 	182.200 182.05	13101
<ul style="list-style-type: none"> ○ Condition, installation and arrangements of system components 		
<ul style="list-style-type: none"> <ul style="list-style-type: none"> • <i>Steam & electrical propulsion must meet requirements of Subch. F & Subch. J</i> 	182.220, 310 182.05-5(b)	
<ul style="list-style-type: none"> <ul style="list-style-type: none"> • <i>Water cooled, or meets exceptions for air cooling</i> 	182.420 182.15-10 182.20-10	
<ul style="list-style-type: none"> <ul style="list-style-type: none"> • <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> 	182.200(b)	
<ul style="list-style-type: none"> <ul style="list-style-type: none"> • <i>Reliable means of shutting down a propulsion engine at the main pilothouse control station</i> 	184.620 184.35-1 175.10-29	13103/8
<ul style="list-style-type: none"> ○ Foundations for structural integrity 	176.402(c)(1) 182.200	
<ul style="list-style-type: none"> ○ Installation of protective covers or guards over exposed gears, belts or other rotating machinery 	177.960 177.35-15	
<ul style="list-style-type: none"> ○ System hull penetrations 	179.350	09233
<ul style="list-style-type: none"> <ul style="list-style-type: none"> • <i>Keel coolers are fitted with a shutoff valve where the cooler penetrates the hull (not required for integral coolers)</i> 	171.119	

Section 9: Machinery & Auxiliary Machinery (MI)

Action	Ref	Code
<ul style="list-style-type: none"> • <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> 	182.422 182.15-10 182.20-10	03199
<ul style="list-style-type: none"> ○ Operational test of main propulsion machinery <ul style="list-style-type: none"> • <i>Proper function of following gauges:</i> • <i>Engine RPM</i> • <i>Jacket water temp</i> • <i>Lube oil pressure gauges at the operation station) RPM not required for Old T</i> 	176.804(a) 182.410(b) 182.20-5	13108
<input type="checkbox"/> Novel systems should be inspected to the Design Basis Agreement approved by COMDT prior to installation of the novel system.	175.540 177.340 CG-ENG PL 01-23	13199
<input type="checkbox"/> Unfired pressure vessels (UPVs)	182.330	13199
<ul style="list-style-type: none"> ○ Data plate(s) are legible ○ Determine if UPV is exempt from inspection 	54.10-20 54.01-15	
<ul style="list-style-type: none"> ○ External exam, internal exam and/or hydrostatic test needs 	176.812 61.10-5(b) 61.10-5(d)&(e) MSM II/B.1.O.4.b	
<ul style="list-style-type: none"> ○ External (5 yrs) ○ Internal (5 yrs when accessible) 	61.10-5(b)(1) 61.10-5(b)(2) 54.01-35	
<ul style="list-style-type: none"> ○ Witness hydrostatic test (if needed) (1.5 MAWP) ○ Installation & operation of pressure gauges 	61.10-5(d) 61.10-5(e)(4) 54.15-5(f) MSM II/ B.1.O.4.b	
<ul style="list-style-type: none"> ○ Installation & operation of pressure-relieving devices <ul style="list-style-type: none"> • <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> ○ Pressure-relieving device setting does not exceed the UPV's MAWP & the device does not relieve at a pressure greater than the MAWP 	54.15-5 61.10-5(i) 54.15-10(a)&(g)	
<input type="checkbox"/> Potable water system (when fitted)	21-1250.82(c) MSM II/A.C.2.a	09130
<ul style="list-style-type: none"> ○ Tank vents are fitted with insect screens ○ Operation of water pump(s) and pressurization system ○ Pressurization system is fitted with safety relief valve(s) 	21-1250.84(a) 54.01-15(a) 54.01-15(a)	

Section 9: Machinery & Auxiliary Machinery (MI)

Action	Ref	Code
○ Installation and arrangement of piping and valves	21-1250.82	09130
○ Water heaters comply with Parts 53 & 63 EXCEPT:	182.320	
• <i>Electric water heaters rated at not more than 100 psi and 250 °F are acceptable if:</i>		
• <i>Capacity ≤ 120 gallons;</i>		
• <i>Heat input ≤ 200,000 Btu/hour;</i>		
• <i>UL listed (174 or 1453); AND</i>		
• <i>Protected by pressure-temperature relief device</i>		
○ Water heater must be installed & secured from rolling by straps or other devices	182.320(c)	
<hr/>		
◆ □ Bilge system		13104
○ Location and operation of pump(s) IAW Table 182.520(a)	176.804(h) 182.115(a)	
• <i>Portable hand bilge pump must be:</i>	182.520(b)	
○ <i>Able to pumping water, but not necessarily simultaneously, from all compartments; and</i>	182.25-10	
○ <i>Provided with suitable suction hose capable of reaching the bilge of each watertight compartment and discharging overboard</i>		
• <i>Fixed power pump:</i>		
○ <i>Must be self priming</i>	182.520(c)	
○ <i>Must be permanently connected to manifold</i>		
○ <i>May also serve as fire pump</i>		
○ <i>Electric submersible OK if ≤65ft, ≤49 pax, not a ferry, & one space served per pump</i>	182.520(e)	
○ Manifolds, valves and piping		
• <i>≤ 65ft must have piping ≥ 1in</i>	182.510	
• <i>> 65ft must have piping ≥ 1.5in</i>	182.25-5	
• <i>Bilge suction will be fitted with a suitable strainer with an open area ≥ 3Xs the area of the bilge pipe</i>	182.40-5(b)	
○ (≥26ft) Visual & audible alarm at the operating station for normally unmanned spaces	182.530	
○ (≥26 ft) Individual bilge lines and bilge suctions for each watertight compartment, except the space fwd of the collision bulkhead (when forepeak can be dewatered with other equipment on board)	182.510(a) 182.25-5(a)	
○ Witness bilge system operational test	176.804(h)	
○ (≥26 ft) Pollution placard is posted	33-155.450	14502

Section 9: Machinery & Auxiliary Machinery (MI)

Action	Ref	Code
□ Exhaust system(s) (wet & dry)	182.425 182.430 176.804(c)	13199
○ No leaks	182.430(b) 182.15-20	
○ Discharges so that gases cannot reenter vessel	182.430(h)	
○ Dry Exhaust systems		
• <i>Clear of & suitably insulated from combustible materials, no injury risk</i>	177.405(b) 182.430(a) 177.10-5(b)	
• <i>Exhaust pipes installed IAW ABYC P-1 (required for "new" wood/FRP): designed to arrest sparks, metallic connections are flanged, threaded or welded, and flexible sections are seamless stainless steel</i>	177.405(b) 182.15-15 (gas) 182.15-20 (gas) 182.20-15 (diesel) 182.20-20 (diesel)	
• <i>Horizontal dry exhaust pipes: -Do not pass through living or berthing areas -Terminate above the deepest load waterline -Are arranged to prevent entry of cold water from rough or boarding seas -Are constructed of corrosion-resisting material at the hull penetration</i>	182.425(a)(2) 182.430(g) 182.15-15 (gas) 182.15-20 (gas) 182.20-15 (diesel) 182.20-20 (diesel)	
○ Exhaust systems cooled by water		13199
• <i>Cooling water is provided either by engine cooling system or from a separate engine driven pump (if separate, alarm provided)</i>	182.425(b)(1), (5) 182.15-15(b)(1) (gas) 182.20-15 (diesel)	
• <i>Cooling water is injected as close as possible to the engine exhaust manifold and passes through entire length of the exhaust pipe to discharge</i>	182.425(b)(2) 182.15-15(b)(2) (gas) 182.20-15 (diesel)	
• <i>Pipe between the exhaust manifold and the point of cooling water injection water jacketed or insulated;</i>	182.425(b)(3) 182.15-15(b)(3) (gas) 182.20-15 (diesel)	
• <i>Vertical exhaust pipes must be water jacketed or insulated</i>	182.425(b)(4) 182.15-15(b)(4) (gas) 182.20-15 (diesel)	
• <i>Provided with a suitable strainer in the intake line.</i>	182.425(b)(6) 182.15-15(b)(6) (gas) 182.20-15 (diesel)	
□ Auxiliary boiler(s) (when present)	176.812(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	

Section 9: Machinery & Auxiliary Machinery (MI)

Action	Ref	Code
○ Columns, gauge glasses and gauge cocks	61.05-15(e)	13199
○ Steam gauge	61.05-15(f)	
○ Safety valves	61.05-10 Table 61.05-20	
○ Operation of safety relief valves	176.704	
• Twice in 5 yrs, no more than 3 yrs between tests; relieves at a pressure \leq 10% above or below the valve's marked pressure	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 10: Electrical Systems Inspection (ES)

Action	Ref	Code
○ Protected by overcurrent device	183.320(f) 183.05-10(d)	13102
○ Reverse Power Relay (for parallel ops)	183.322 111.12-11	
<hr/>		
□ Lighting systems		
○ Light fixtures	183.410	09203
<ul style="list-style-type: none"> • <i>Globe, lens, or diffuser must have a guard or be made of high strength material except:</i> • <i>In accommodation space, radio room, galley or similar space</i> • <i>Comply with 183.200, UL 595 & series 1570</i> 	183.10-20(l)	
○ Presence of portable lights	183.430	04103
<ul style="list-style-type: none"> • <i>At least 2 onboard; flashlights count</i> • <i>Located at operating station & at access to propulsion machinery space</i> 		
○ Emergency lighting operational test	183.432	04103
<ul style="list-style-type: none"> • <i>Adequate fitted along line of escape to main deck from pax & crew accommodation spaces located below main deck</i> • <i>Automatically actuate upon failure of main lighting system</i> • <i>If not equipped with single source of emergency power for emergency lighting, must have individual battery powered lights that:</i> • <i>Automatically actuate upon loss of normal power</i> • <i>Are not readily portable</i> • <i>Are connected to an automatic battery charger; and</i> • <i>Have sufficient capacity for ≥ 2 hours of continuous operation</i> 	184.30-5	
○ Overcurrent protection	183.380 UL 489	09209
<hr/>		
□ Battery installation	183.05-20	02108
○ Battery category	183.352	
<ul style="list-style-type: none"> • <i>Large (Charger output > 2 kw)</i> • <i>Small (Charger output ≤ 2 kw)</i> 		
○ Ventilation	183.354	
<ul style="list-style-type: none"> • <i>Large (provided IAW 111.15-10)</i> • <i>Small (in well ventilated space)</i> 	111.15-10	
○ Properly installed and secured	183.350(b)	
<ul style="list-style-type: none"> • <i>Located as high above bilge as practicable & secured</i> 	183.354	

Section 10: Electrical Systems Inspection (ES)

Action	Ref	Code
<ul style="list-style-type: none"> • <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> • <i>Small (Protected from falling objects; must not be in a closet, storeroom or similar space)</i> 		02108
○ Space for maintenance and removal	183.350(c)	
○ Ammeter connected in the charging circuit	183.350(f)	
○ Proper ventilation of charger	183.350(a)	
<ul style="list-style-type: none"> • <i>When charging batteries, must have natural or induced ventilation to disperse gasses</i> 		
○ Connections to battery terminals are permanent type connectors	183.350(d)	
<input type="checkbox"/> Lithium Ion (Li-ion) battery installations		02108
○ As propulsion or electrical power source:	182.220(b)	
<ul style="list-style-type: none"> • <i>Conduct testing IAW approved PSTP</i> 	CG-ENG PL 02-19	
○ Other Li-ion batteries:	176.830	
<ul style="list-style-type: none"> • <i>Storage location dry & cool</i> • <i>Charged in occupied/monitored spaces</i> • <i>Inspect for damage, cracking, swelling</i> • <i>Assess crew firefighting competency</i> 	CG-CVC PL 20-03 185.364	
<input type="checkbox"/> Electrical cable & fixtures	183.340 183.05-45&50 183.10-20	02108
○ Supports for vertical & horizontal installations (metal supports spaced no more than 24in and in such a manner as to avoid chafing and other damage)	183.340(b)(4)	
<ul style="list-style-type: none"> • <i>Plastic tie wraps may be used as a means of support on vsls ≤ 65'</i> 		
○ No sharp radius of bends	183.340(b)(5)	
○ No hazardous conditions exist (for hazardous area installations see next task)	183.200-220	09109
<ul style="list-style-type: none"> • <i>Protect pax, crew, other persons and the vessel from electrical hazards including fire caused by or originating in electrical equipment, and shock</i> • <i>Protection from wet and corrosive environments</i> 		
○ Cable size and condition	183.340	02108
<ul style="list-style-type: none"> • <i>Individual wires, rather than cable are used in systems > 50V, the wire must be in conduit</i> 	183.05-45 183.10-20	

Section 10: Electrical Systems Inspection (ES)

Action	Ref	Code
<ul style="list-style-type: none"> • <i>All cable & wire must have stranded copper conductors with sufficient current carrying capacity for the circuit in which they are used</i> • <i>Conductors in power & lighting circuits must be ≥ 14 AWG</i> • <i>Conductors in control & indicator circuits must be ≥ 22 AWG</i> 		02108
<ul style="list-style-type: none"> ○ Condition of outlets ○ Connection types 	<p>183.340(g)</p> <p>183.340(h)</p>	
<ul style="list-style-type: none"> □ Components installed in designated hazardous areas 		02108
<ul style="list-style-type: none"> ○ Hazardous area(s) 	183.530(a)	
<ul style="list-style-type: none"> • <i>Spaces containing machinery powered by, or fuel tanks for, gasoline or other fuels having a flashpoint of ≤ 110 °F</i> • <i>Lockers used to store paint, oil, turpentine, or other flammable liquids</i> 		
<ul style="list-style-type: none"> Electrical equipment for hazardous area(s) 		
<ul style="list-style-type: none"> • <i>Electrical equipment must be explosion proof or be part of an intrinsically safe system IAW requirements of 111.105</i> 	<p>183.530(b)</p> <p>183.530(c)</p> <p>111.105</p>	
<ul style="list-style-type: none"> ○ Integrity of equipment 		

Section 11: Structural/Watertight Integrity (SW)

Action	Ref	Code
◆ □ Hatches and Class-1 (hinged) watertight doors	179.330 171.115 171.124	03104/10 03107
○ Condition of knife edges		
○ Condition of gasket material	MSM /B.1.E.5	
○ Verify watertight integrity between gasket and knife edge		
○ Condition and operation of hinges and dogging devices	170.270 MSM II/B.1.E.5	
○ Operation of quick- acting closing device from both sides	179.330(b)	
○ Operation of indicator lights at the control station	179.330(b)	
○ Markings	185.610	
□ Inspect Class 2 & 3 (sliding) watertight doors	179.330(c) 170.270(c)(2) 171.124 171.115	03107
○ Operation of local controls	ASTM F1197/7.1	
○ Operation of remote controls	ASTM F1197/7.1	
○ Condition of replaceable interface between door and frame assembly	170.270(c)(1) ASTM F1196/3.1.6 ASTM F1196/6.3	
○ Operation of alarms	ASTM F1197/11.5	
○ Closing times are in compliance	ASTM F1197/11.2 ASTM F1197/11.4	
○ Markings	185.610	
○ Watertight integrity	ASTM F1196/11.1 ASTM F1196/S4 ASTM F1196/S1	
○ Operation of doors under reserve power	170.270(c)(3) ASTM F1197/S3	
□ Watertight bulkhead penetrations		03199
○ Locations	179.320(c) 171.114 171.119	
• As high up and inboard as possible, number of penetrations minimized.		
○ Watertight	182.720(d)(1) MSM II/B.1.B.5	
○ Free of sluice valves	179.320(d)	
□ Hull structure	177.300 MSM 71/B.1.B.1	02199
○ Damage, wastage & fractures	177.10-1	02106
○ No unauthorized repairs		

Section 12: Pollution Prevention Inspection (PP)

Action	Ref	Code
<input type="checkbox"/> Sewage system <ul style="list-style-type: none"> ○ Presence of manufacturer's instructions ○ Operation ○ Capacity ○ Piping and wiring ○ Marine Sanitation Device (MSD) approval & labeled Type I, II, or III ○ Instructions & warning placard posted ○ Overboard discharge valve is closed and secure <ul style="list-style-type: none"> • <i>Methods of locking & securing and applicability of locking & securing in 33 CFR 159.7(b) & (c)</i> 	184.704 33-159.57 33-159.57(b)(8) 33-159.57(b)(6) 33-159.97 MSM II/B.6.F.4 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"> ○ Plan compliance ○ Handling of plastics ○ Placards posted (>26') <ul style="list-style-type: none"> • <i>Prominent locations</i> • <i>Readable by crew & pax</i> • <i>Durable, 5in x 8in</i> 	184.702 33-151.51&.57 MARPOL V/9.2 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"> ○ Oil pollution placard posted (>26') <ul style="list-style-type: none"> • <i>In every machinery space or bilge/ballast pump stations</i> • <i>Durable, 5" x 8"</i> ◆ ○ Bilges are free of debris & excessive amounts of oil 	33-155.450 176.830	14502 07126
<input type="checkbox"/> Vessel General Permit (VGP) compliance verification (when applicable) <ul style="list-style-type: none"> ○ Discharges are in compliance with VGP ○ Log entries 	CG-543 PL 11-01 FWPCA Sect. 402 VGP 1.5.1.1 VGP 2.2.3.2 VGP 4.3 VGP 4.1.1.1 VGP 4.2	99103

Section 13: Topside Equipment Inspection (TE)

Action	Ref	Code
◆ □ Freeing ports and scuppers	178 Sbpt D 171 Sbpt H 176.700	03112/3
○ No modifications		
○ Unobstructed		
○ Free operation of any flowback device	Stability Letter	
□ Ground tackle, mooring lines & related equipment	184.300	09228 09299
○ Size of anchor(s) required		
○ Operation of capstan		
○ Condition of anchoring equipment		
○ Ability to safely anchor		
○ Condition of bits, cleats, fairleads & winches		
○ Mooring lines/wires are adequately sized and in working condition		
◆ □ Port lights, dead covers & natural vent openings	179.350 171.119	03106/8
○ Vent covers are available & operational	182.460(l)	
○ Closing devices have proper fit & seal (<i>dogs, rims, seats, hinges and lugs</i>)	182.465(h)	
○ Port lights & dead covers, proper fit & seal	179.350(a),(b)	
□ Fuel tank venting	182.450(d) 182.20-35 ABYC H-33 & H-24	02107
○ Condition and location		
○ Installation and condition of flame screen(s)		
○ Installation of vent piping		
○ Vent size		02107
○ Condition of flexible vent pipe sections		
□ Rails and guards		03103
○ Rail heights & courses (<i>39.5", 200lb point load, 50lb uniform load minimum</i>)	177.900 177.35-1	
○ Storm rails	177.920 177.35-5	
○ Guards for vehicles	177.940 177.35-10	

Sections 14-19: 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?
- How do you track preventative maintenance for the vessel engineering/machinery systems?

Sections 14-19: Human Factors & Safety Culture / Drills

- 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/documentated? 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 procedures and watches are followed for overnight voyages?
- 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?

Section 15: Emergency Drills General

- How does the crew conduct crowd control during an emergency?
- How are crew members selected/ how is the crew rotation determined?
- 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?
- What are the responsibilities for each crew member for the safe operation of the vessel?
- 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?

Sections 14-19: Human Factors & Safety Culture / Drills

Section 16: Fire Drill

- | | | | |
|--------------------------|--|------------|-------|
| <input type="checkbox"/> | Evaluate Fire Drill | 185.524 | 04109 |
| <input type="checkbox"/> | o Witness fire drill | 176.810(d) | 07125 |
| <input type="checkbox"/> | o Verify crew's ability to organize | MSM.71 | 04118 |
| <input type="checkbox"/> | o Verify crew's familiarity with their duties | /B.2.D.3 | |
| <input type="checkbox"/> | o Verify crew's familiarity with use of equipment | | |
| <input type="checkbox"/> | o Verify method of summoning passengers to muster or embarkation stations | | |
| <input type="checkbox"/> | o Verify effective communication with master | | |
| <input type="checkbox"/> | Did crew member sound alarm? | | |
| <input type="checkbox"/> | Did crew member attempt initial action? | | |
| <input type="checkbox"/> | 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? | | |
| <input type="checkbox"/> | Did Master control situation from helm, make announcements and communicate effectively with the crew? | | |
| <input type="checkbox"/> | Did crew members take control of the situation and direct pax as appropriate? | | |
| <input type="checkbox"/> | Did crew members communicate effectively with Master, other crew members and pax? | | |
| <input type="checkbox"/> | Was a charged fire hose or fire bucket provided? | | |
| <input type="checkbox"/> | Did crew member effectively fight fire with portable fire extinguishers, close off ventilation closures, secure power and fuel? | | |
| <input type="checkbox"/> | Did the crew know how to operate and deploy the Fixed Fire Extinguishing System and /or fire pump (if available)? | | |
| <input type="checkbox"/> | Did the crew understand which agent they were using? | | |
| <input type="checkbox"/> | Did the drill follow the SOLAS training and operations manual, the emergency instructions, and/or placards posted? | | |
| <input type="checkbox"/> | What are your procedures if you receive a smoke detection alarm? | | |
| <input type="checkbox"/> | How often do you charge a fire hose during drills so crew can become familiar with handling the hose? (If applicable) | | |
| <input type="checkbox"/> | How often are fire drills completed? | | |
| <input type="checkbox"/> | o Do you discuss topics with the crew including fire boundaries, containing the fire and activation of suppression systems? | | |
| <input type="checkbox"/> | How does the crew conduct crowd control during an emergency? | | |
| <input type="checkbox"/> | o Which crew member is responsible for this in each location? | | |

Sections 14-19: Human Factors & Safety Culture / Drills

Section 17: Man Overboard Drill

- | | | | |
|--------------------------|---|--------------------|-------|
| <input type="checkbox"/> | Evaluate Man Overboard Drill | 176.808(g) | CG004 |
| | ○ Verify ability to recover a helpless person | 185.520
180.210 | |
| | ○ Verify crew's ability to organize | 185.700 | |
| | ○ Verify crew's familiarity with their duties | 180.10-35 | |
| | ○ Witness launching of rescue boat (when applicable) | | |
| | ○ Evaluate crew's proficiency in handling and maneuvering the rescue boat in the water (when applicable) | | |
| | ○ Verify operational readiness and condition of rescue platform (when applicable) | | |
| <input type="checkbox"/> | Did the crew throw Oscar or fender overboard? | | |
| <input type="checkbox"/> | Did the crewmember call out "man overboard" and which side of the vessel the victim fell over and begin pointing to the victim? | | |
| <input type="checkbox"/> | Did crewmember throw ring life buoy or PFD, fender or other flotsam overboard? | | |
| <input type="checkbox"/> | If at night, was the waterlight attached to the ring life buoy and was it deployed immediately? | | |
| <input type="checkbox"/> | Did the Master approach the victim with a plan and was he successful? | | |
| <input type="checkbox"/> | 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? | | |
| <input type="checkbox"/> | Did the Master control the situation from helm, make announcements and communicate effectively with crew? | | |
| <input type="checkbox"/> | Did the Master approach the victim with a plan and was he successful? | | |
| <input type="checkbox"/> | Did the crewmembers properly don PFDs, take control of the situation and direct passengers as appropriate? | | |
| <input type="checkbox"/> | Did crew members communicate effectively with the Master, other crewmembers and pax? | | |
| <input type="checkbox"/> | 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? | | |
| <input type="checkbox"/> | When the victim was recovered, did the crew complete basic first aid that included the ABCs? | | |
| <input type="checkbox"/> | Did the drill follow the training and operations manual or emergency instructions? | | |

Sections 14-19: Human Factors & Safety Culture / Drills

Section 18: Abandon Ship Drill

- | | | | |
|--------------------------|---|------------|-------|
| <input type="checkbox"/> | Evaluate abandon ship drill | 176.808(g) | 04110 |
| | ○ Witness drill | 185.520 | |
| | ○ Verify means of summoning crew and passengers | | |
| | ○ Verify crew's familiarity with assigned duties | | |
| | ○ Verify all lifejackets are correctly donned | | |
| | ○ Witness means of launching survival craft | | |
| <input type="checkbox"/> | Did the Master simulate broadcasting a mayday on the VHF radio and provide the vessel position, number of persons onboard and type of distress? | | |
| <input type="checkbox"/> | Were life jackets properly donned by crew and pax? | | |
| <input type="checkbox"/> | Did the crew have a plan (demonstrate as necessary) on how to deploy and marshal the vessel's primary lifesaving devices? | | |
| <input type="checkbox"/> | Did the Master simulate activating the EPIRB? | | |
| <input type="checkbox"/> | Did the drill follow the training operations manual or SOLAS training materials or emergency instructions and/or others placards posted? | | |
-

Section 19: Passenger Egress Drill

- | | | | |
|--------------------------|---|--------------------------|-------|
| <input type="checkbox"/> | Evaluate passenger egress drill (<i>overnight only</i>) | | 04110 |
| | ○ Verify drill normally conducted prior to each trip w/ new pax | 185.507(a) | |
| | ○ Verify logbook entry includes date/ time, number of participants | 185.507(b) | |
| | ○ Verify ability for passenger to easily egress to embarkation station | 185.506(e)
177.500(n) | |
| | ○ Verify passengers don lifejackets during each drill with clear instructions from crew | 185.506(e) | |

International Voyages Certificates and Documents (CD)

Action	Ref	Code
<input type="checkbox"/> Passenger Ship Safety Certificate (<i>Int'l Route, >12 pax</i>)	176.910(a) SLS.14/Circ.87 Dated 11/15/89	01103
Presence	SOLAS I/12(a)(i)	
Validity	176.910(c) SOLAS I/14	
Contents	176.910(a)-(b) SOLAS I/15	
<input type="checkbox"/> Engine International Air Pollution Prevention (EIAPP) Certificate (<i>Int'l Route, Marine Diesel >130kW</i>)	MARPOL VII/13.1	01125
<input type="checkbox"/> Presence	MARPOL VII/13.8 NOx Code 2.1.1	
<input type="checkbox"/> Correct engines identified & no changes have been made	MARPOL VII/13.1.1	
<input type="checkbox"/> Statement of Compliance (issued by Manufacturer) is accompanied by EPA issued EIAPP	CG-543 PL 09-01 5.b	
<input type="checkbox"/> International Air Pollution Prevention Certificate (IAPP) and Supplement Record of Construction and Equipment (<i>Int'l Route, >400 GT ITC</i>)		01124
<input type="checkbox"/> Vessel particulars on IAPP and Record of Construction and Equipment	MARPOL VII/8	
<input type="checkbox"/> Annual, intermediate, renewal, repair and extension endorsements and/or change in anniversary date	MARPOL VII/5	
<input type="checkbox"/> Ozone depleting substances identified	MARPOL VII/12	
<input type="checkbox"/> Nitrogen Oxide emission sources identified	MARPOL VII/13	
<input type="checkbox"/> Sulphur Oxide (fuel oil) requirements identified	CVC-WI-022 MARPOL VII/14.5	
<input type="checkbox"/> Incinerator installation identified (when applicable)	MARPOL VII/16	
<input type="checkbox"/> Validity of alternatives or equivalents	MARPOL VII/4	
<input type="checkbox"/> Anti-Fouling Requirements (<i>Int'l Route</i>)	MSM.71/B.3.J	
<input type="checkbox"/> Vessel particulars	IMO Res MEPC.195(61) 4	14701
<input type="checkbox"/> COI has Anti-Fouling endorsement or IAFS Certificates (<i>>400 ITC</i>)	AFS Art.3 AFS Annex 4 (1)	01131
<input type="checkbox"/> IAFS Declaration or SOVC (<i><400 ITC & >24m</i>)	MSM.71/B.3.J AFS Annex 4 (5)	01131
<input type="checkbox"/> Identification of applied Anti-Fouling System	MEPC.195(61) 4.2	14701/3
<input type="checkbox"/> Vessel particulars on Record of Anti-Fouling Systems	AFS Annex 4 App. 1 MEPC.195(61) 4.1	14702
<input type="checkbox"/> Anti-Fouling Systems details provided	MSM.71/B.3.J MEPC.195(61) 4.2 & 5	14701

International Voyages Certificates and Documents (CD)

Action	Ref	Code
<input type="checkbox"/> International Energy Efficiency Certificate and Record of Construction (<i>Int'l Route, >400 GT ITC, mechanical propulsion</i>) <ul style="list-style-type: none"> ○ Vessel particulars ○ Energy Efficiency Design Index requirements (<i>New ships after 1/1/17</i>) ○ Ship Energy Efficiency Management Plan (SEEMP) is identified ○ Technical File requirements are met (>5000 GT ITC) 	IMO Res MEPC.203(62) Appendix VIII CG-CVC PL 13-02 7 MEPC.203(62) 20.1 CG-CVC PL 13-02 7.b MEPC.203(62) 22 MEPC.203(62) 20.1	01138
<input type="checkbox"/> International Oil Pollution Prevention Certificate (IOPP) (<i>Int'l Route, >400 GT ITC</i>) <ul style="list-style-type: none"> ○ Vessel particulars ○ Vessel type is accurate ○ Annual, intermediate, extension renewal, or change in anniversary date ○ Record of construction and equipment ○ Control requirements for machinery bilge and fuel oil tanks identified ○ Retention and disposal requirements for oily bilge water holding tanks ○ Standard discharge connection requirement 	33-151.19 MARPOL I/9 MARPOL I/2.1-.4 MARPOL I/9 33-151.17-.19 33-151.17 MARPOL I/6 33-151.19 MARPOL I/9 MARPOL I/14 MARPOL I/12 33-158.250 MARPOL I/13	01117
<input type="checkbox"/> Statement of Voluntary Compliance, MARPOL Annex IV (Sewage) (<i>Int'l Route, >400 GT ITC</i>) <ul style="list-style-type: none"> ○ Vessel particulars ○ Compliance type ○ Discharge rate (draft & speed chart) identified ○ Endorsements (extension or renewal) 	NVIC 1-09 Ch-1 33-159.53 & .55 IMO Res MEPC.227(64)	01119
<input type="checkbox"/> Credentials <ul style="list-style-type: none"> ○ STCW endorsements ○ Vessel Security Officer endorsement ○ Transportation Worker Identification Credential (TWIC) ○ GMDSS endorsements 	10.109(d) STCW I/2.6 15.1113 10.203(b) CG-543 PL 11-15 47-80.159(d) 47-80.1073 G-MOC PL 04-02	01299 01217 16107/ 01201 01203
<input type="checkbox"/> International Load Line Certificate (ILLC) (<i>Int'l Route, >150 GT ITC or ≥79'</i>) <ul style="list-style-type: none"> ○ Presence 	175.122 ICLL Art. 16	01108

International Voyages Certificates and Documents (CD)

Action	Ref	Code
<ul style="list-style-type: none"> ○ Validity 	42.07-45 ICLL Art. 15 ICLL Art. 19	01108
<ul style="list-style-type: none"> ○ Certificate form ○ Confirm load line observed on hull (Task TII-DA01) matches certificate ○ Logbook entries are completed ○ Record of Conditions of Assignment (Form LL.11) is present and validates issued Load Line 	ICLL Art. 18 42.07-5 ICLL I/9 42.07-20 CG-5212 Policy Notes 5.c	
<ul style="list-style-type: none"> □ Document of Compliance (ISM-DOC) (<i>Int'l Route, >12 pax</i>) 	176.925 SLS.14/Circ.155 Dated 9/17/98 MSM.74/E.3.C.5	01106
<ul style="list-style-type: none"> ○ Presence ○ Validity ○ Document form ○ Alternate compliance arrangements 	33-96.330 SOLAS IX/4.2 SOLAS IX/5 ISM 13.2-5 ISM 16 175.540	
<ul style="list-style-type: none"> □ Safety Management Certificate (ISM-SMC)(<i>Int'l Route, >12 pax</i>) 	176.925 SLS.14/Circ.155 Dated 9/17/98 MSM.74/E.3.C.5	01107
<ul style="list-style-type: none"> ○ Presence ○ Validity ○ Certificate form ○ Alternate compliance arrangements 	33-96.340 SOLAS IX/4.3 176.925 SOLAS IX/5 ISM 13.7 ISM 16 175.540	
<ul style="list-style-type: none"> □ International Ship Security Certificate (ISSC) & Continuous Synopsis Record (CSR) (<i>Int'l Route, >12 pax</i>) 	SOLAS XI-1/5.5.2 ISPS A/19.2.4	01122
<ul style="list-style-type: none"> ○ Vessel particulars ○ Company name & address match ○ ISSC verification type with date ○ ISSC endorsement (Intermediate or additional) ○ Additional ISSC verifications, extensions, renewals or expiry advancements are completed ○ CSR is present & valid ○ CSR information matches ISSC 	SOLAS XI-1/5.3 ISPS A/19.1.1 ISPS A/19.1.1 ISPS A/19.3.4 SOLAS XI-1/5.1 SOLAS XI-1/5.3 SOLAS XI-1/5.4.1-3 SOLAS XI-1/5.3	01122
<ul style="list-style-type: none"> □ Certificate of Documentation (COD) (>5 NT, <i>Int'l</i>) 	67.17	CG003

**International Voyages
Certificates and Documents (CD)**

Action	Ref	Code
<i>Route)</i>	67.19	
○ Registry endorsement		
□ Tonnage Certificate	69.11	01132
○ Presence		
○ Validity	69.69	
○ Correct measurement system	NVIC 11-93 CH-3	
○ Vessel particulars remain valid	ICTM Art. 3	
□ MARPOL Placards, Garbage Management Plans, & Record Keeping (<i>Int'l Route, >12 pax</i>)		
○ Placard (>12m length)	MARPOL 10.1.1	14502
○ Management Plan (≥15 POB)	MARPOL 10.2	14503
○ Record Book (≥15 POB)	MARPOL 10.3	01320

International Voyages Logs & Manuals Inspection (LM)

Action	Ref	Code
<ul style="list-style-type: none"> □ Official logbook <ul style="list-style-type: none"> ○ Presence ○ Verify entries 	<ul style="list-style-type: none"> 185.280(a) 185.280(b) 	01305
<ul style="list-style-type: none"> □ Maintenance Records <ul style="list-style-type: none"> ○ Shore-based maintenance report for EPIRB ○ Maintenance & inspections of survival craft ○ Annual test reports for VHF-DSC, AIS, LRIT & SSAS 	<ul style="list-style-type: none"> 185.724 & .726 SOLAS IV/15 185.722 SOLAS III/20.7 SOLAS IV/17 	<ul style="list-style-type: none"> 11199 05116
<ul style="list-style-type: none"> □ Shipboard Oil Pollution Emergency Plan (SOPEP) (>400 ITC) <ul style="list-style-type: none"> ○ Applicability ○ Approval ○ Annual review ○ Plan organization 	<ul style="list-style-type: none"> 184.702 33-151.09 MARPOL I/2 33-151.27 MARPOL I/37.1 33-151.28(a) 33-151.28(d) 33-151.26 	01314
<ul style="list-style-type: none"> □ Oil and hazardous liquid transfer procedures (≥250 bbls oil/hazmat) <ul style="list-style-type: none"> ○ Presence ○ Person in Charge is identified ○ Contents 	<ul style="list-style-type: none"> 184.702 33-155.720 33-155.750(a)(4) 33-155.750 	14105
<ul style="list-style-type: none"> □ Vessel's training log <ul style="list-style-type: none"> ○ Presence ○ Contents 	<ul style="list-style-type: none"> SOLAS III/35 	01305
<ul style="list-style-type: none"> □ Oil Record Book (ORB) (>400 ITC) <ul style="list-style-type: none"> ○ Edition ○ Required signatures ○ Required entries ○ Compare overboard discharge rate entries with filtering equipment data plate or supplement to IOPP certificate 	<ul style="list-style-type: none"> 184.702 33-151.25(b) IMO Res MEPC.187(59) 33-151.25(h) 33-151.25(h) MARPOL I/Appx III MEPC.1/Circ 736 MARPOL I/7 MARPOL I/Appx III 	01315

**International Voyages
Bridge/Navigation & Lifesaving/Firefighting**

Action	Ref	Code
<ul style="list-style-type: none"> □ Voyage data recorder (<i>Int'l Route, >12 pax</i>) <ul style="list-style-type: none"> ○ Presence ○ Installation 	SOLAS V/20	10114
<ul style="list-style-type: none"> □ Automatic identification system (AIS) (<i>Int'l Route, >12 pax</i>) <ul style="list-style-type: none"> ○ Presence ○ Operational 	33-164.46 SOLAS V/19.2.4	10113
<ul style="list-style-type: none"> □ Bridge navigation equipment (<i>Int'l Route, >12 pax</i>) <ul style="list-style-type: none"> ○ Spare magnetic compass ○ Pelorus or compass bearing device ○ Means of correcting heading & bearing to true at all times ○ Electronic plotting aide ○ Speed & distance measuring device 	SOLAS V/19.2.2.1 SOLAS V/19.2.1.2 SOLAS V/19.2.1.3 SOLAS V/19.2.3.3 SOLAS V/19.2.3.4	10105 10105 10106 10107 10103
<ul style="list-style-type: none"> □ Communication equipment (<i>Int'l Route, >12 pax, Sea Area</i>) <ul style="list-style-type: none"> ○ Operation of NAVTEX (<i>All</i>) ○ Operation of portable VHF(s) (<i>All</i>) ○ Radar transponder (AIS-SART)(<i>All</i>) ○ GMDSS radio equipment installation is appropriate for the Sea Area in which the vessel operates <ul style="list-style-type: none"> • <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> 	47-80.1101(c) 47-80.905 SOLAS IV/7.1.4 47-80.1095 SOLAS III/6.2.1 47-80.1085 47-80.1095 SOLAS III/6.2.2 47-80.1095 47-80 Sub W	05110 05109 11123 05118
<ul style="list-style-type: none"> □ Long range identification and tracking (LRIT) (<i>Int'l Route, >12 pax, Except ships w/AIS in Sea Area A1</i>) <ul style="list-style-type: none"> ○ Presence ○ Operational ○ Conformance test report • <i>Check for LRIT exemption in MISLE</i> 	33-169.205(a) SOLAS V/19-1	10137
<ul style="list-style-type: none"> □ Depth sounding equipment (<i>Int'l Rte, >12 pax</i>) <ul style="list-style-type: none"> ○ Operational 	SOLAS V/19.2.3.1	10117
<ul style="list-style-type: none"> □ Global Maritime Distress and Safety System (GMDSS) equipment 		

International Voyages Bridge/Navigation & Lifesaving/Firefighting

Action	Ref	Code
○ 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/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)	05107
<ul style="list-style-type: none"> ● <i>IV/15.6 Sea Areas A1 & A2 Methods (one) – duplication of equipment, shore-based maintenance, or at-sea maintenance capability</i> ● <i>IV/15.7 Sea Areas A3 & 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 only and contact FCC.</i> 	SOLAS IV/15 NVIC 3-99	

International Voyages Lifesaving & Firefighting (LS)(FF)

□ Immersion suit (SOLAS)	180.10 199.70(c) SOLAS III/4 160.171	11119
○ USCG type approval	199.70(c)	
○ Quantity & size presence	199.70(c)	
○ Verify stowage	199.70(c)(2)&(d)	
<ul style="list-style-type: none"> ● <i>Readily accessible</i> ● <i>Container clearly marked with “IMMERSION SUITS” or “ANTI-EXPOSURE SUITS” & quantity, identity and size</i> 		
○ Markings (<i>Vessel or person name</i>)	199.70(c)(3)	
○ Attachments & fittings (<i>life jacket light & whistle</i>)	199.70(c)(4)	
○ Condition and suitability	160.171 NVIC 1-08	
□ 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 air cylinders	SOLAS II-2/10.10.2.6	

International Voyages Bridge/Navigation & Lifesaving/Firefighting

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

International Voyages Security (SD)

Action	Ref	Code
<ul style="list-style-type: none"> □ Vessel Security Plan (VSP/ASP) <ul style="list-style-type: none"> ○ Presence of approval letter for plan type ○ Plan is secured ○ Contents ○ Amendment(s) (<i>if applicable</i>) ○ Implementation 	<ul style="list-style-type: none"> 33-104.120(a)(1) SOLAS XI-2/4.2 ISPS A/9.1 33-104.400(c) ISPS A/9.7 NVIC 4-03 33-104.400 33-104.415(a) 33-104.400(a) 	16103
<ul style="list-style-type: none"> □ Security records <ul style="list-style-type: none"> ○ Record(s) of security training ○ Drills have been conducted ○ Presence of Declarations of Security (DoS) ○ Record(s) of security drills ○ Annual exercise has been conducted ○ Record(s) of annual audit 	<ul style="list-style-type: none"> 33-104.235(b)(1) 33-104.235(b)(2) SOLAS XI-2/4.2 ISPS A/10.1.1 33-104.235(b)(7) ISPS A/5.7 NVIC 4-03 Encl. 3 Sect. 10 33-104.235(b)(2) ISPS A/10.1.1 33-104.235(b)(2) ISPS A/10.1.1 33-104.235(b)(8) ISPS A/10.1.6 	16107 16106 16107 16107 16107 16107
<ul style="list-style-type: none"> □ Security equipment <ul style="list-style-type: none"> ○ Equipment matches plan ○ Maintenance records 	<ul style="list-style-type: none"> 33-104.292(b)(ii) SOLAS XI-2/6 ISPS A/9.4.17 33-104.260 33-104.235(b)(5) NVIC 4-03 Encl. 3 Sect. 10 	16107
<ul style="list-style-type: none"> □ Crew's knowledge of security plan <ul style="list-style-type: none"> ○ Identify Company Security Officer (CSO) ○ Identify Vessel Security Officer (VSO) ○ VSO knowledge regarding his/her responsibilities ○ Crew's level of knowledge regarding their security responsibilities ○ Compliance with current Maritime Security (MARSEC) level 	<ul style="list-style-type: none"> 33-104.200(b)(2) SOLAS XI-2/4.2 ISPS A/11.1 33-104.200(b)(2) ISPS A/12.1 33-104.215(e) ISPS A/12.2 NVIC 4-03 Encl. 3 Sect. 10 33-104.220 ISPS A/13.3 NVIC 4-03 Encl. 3 Sect. 10 33-104.240 33-104.215(e)(9) ISPS A/12.2.9 	16107 16104 16104 16106 16105

Sail Vessel Addendum

Action	Ref	Code
Certificates & Documents (CD)		
<ul style="list-style-type: none"> □ Master's Merchant Mariner Credential (MMC) <ul style="list-style-type: none"> ○ Auxiliary sail endorsement 	15.901(d)	01201
<ul style="list-style-type: none"> □ Rigging Plan <ul style="list-style-type: none"> ○ Vessel information and structure particulars ○ Marked "examined" 	177.202(b)(12) 177.202(c)	99101
<ul style="list-style-type: none"> □ Sail Area Plan (Sail Plan) <ul style="list-style-type: none"> ○ Sail Plan arrangement in Rigging Plan ○ Sail Plan is incorporated into stability letter 	177.202(b)(12) NVIC 2-16 Encl 1 IV 177.202(b)(12)(ii) 178.210 Stability Letter	99101
<ul style="list-style-type: none"> □ Preventative Maintenance Plan <ul style="list-style-type: none"> ○ Rig discrepancy records ○ On-going maintenance 	NVIC 2-16 Encl 1 II	99101
Topside Equipment (TE)		
<ul style="list-style-type: none"> □ Spar(s) & fittings <ul style="list-style-type: none"> ○ Rig arrangement and design ○ Materiel condition of masts, yards, booms and gaffs ○ Mast, yard, boom and gaff fittings ○ Head rig (bow sprit/jib boom) spars and fittings 	NVIC 2-16 Encl 1 III(d) 176.802(a)(3) 177.330 Approved Rig Plan Stability Letter 176.802(a)(3)	99101
<ul style="list-style-type: none"> □ Standing rigging components (stays and shrouds) <ul style="list-style-type: none"> ○ Materiel condition of shrouds/stays ○ Shroud/stay terminal end fittings (swaged/swageless) ○ Fittings associated with rig tune (turnbuckles, cotter & clevis pins) ○ Fittings associated with rig alignment (tang, toggles, point loads) ○ Shroud/stay attachment to hull (chainplates, stem fittings) ○ Furler fittings (when applicable) ○ Spreaders (when applicable) 	176.802(a)(3) NVIC 2-16 _Encl 1 III(d)	99101
<ul style="list-style-type: none"> □ Rail configuration <ul style="list-style-type: none"> ○ Approval for rail height and location ○ Configuration IAW with OCMI approval 	177.900(f)	03103

Sail Vessel Addendum

Action	Ref	Code
<input type="checkbox"/> Running rigging components (used to handle sails and movable spars) <ul style="list-style-type: none"> <input type="checkbox"/> Sheets (lines, blocks, shackles, cleats) <input type="checkbox"/> Halyards (lines, blocks, shackles, cleats) <input type="checkbox"/> Topping lift <input type="checkbox"/> Sail control system (lazyjack, dutchman) (when applicable) <input type="checkbox"/> Furler control sheets/cleats <input type="checkbox"/> Cars, tracks, winches, vang and travelers 	176.802(a)(3) NVIC 2-16 _Encl 1 III(f)	99101
<input type="checkbox"/> Rigging/hull components under sail <ul style="list-style-type: none"> <input type="checkbox"/> Condition of sails (stitching/grommets/reinforcements) <input type="checkbox"/> Crew's ability to set/strike sails <input type="checkbox"/> Crew safety aloft <input type="checkbox"/> Passenger safety <input type="checkbox"/> Wire tension and fittings on standing rigging <input type="checkbox"/> Operation of running rigging <input type="checkbox"/> Hull/mast internal structure 	176.802(a)(3) 176.802(c) 176.404(a)	99101
<input type="checkbox"/> Catamaran forestay load path & hull attachments <ul style="list-style-type: none"> <input type="checkbox"/> Bow tube or beam arrangement <input type="checkbox"/> Gull stay/dolphin striker <input type="checkbox"/> Bridle stays 	176.802(a)(3) NVIC 2-16 Encl 1 III(d)	99101

Emergency Drill (ED)

<input type="checkbox"/> Man overboard drill under sail <ul style="list-style-type: none"> <input type="checkbox"/> Crew's ability to perform duties <input type="checkbox"/> Witness drill 	185.420 185.510 185.512 185.520 NVIC 2-16 Encl 1 III(i)	CG004
---	--	-------

Internal Structural Examination (IS)

<input type="checkbox"/> Hull/mast internal support structure	176.802(a)(3) NVIC 2-16 Encl 1 III(g)	02199
---	---	-------

Sail Vessel Addendum

Action	Ref	Code
<ul style="list-style-type: none">○ Mast partner○ Mast step structure○ Chain plate backing / reinforcement to hull (when applicable)		

Wood Vessel Addendum

Action	Ref	Code
Lifesaving Equipment (LS)		
<ul style="list-style-type: none"> □ Survival craft <ul style="list-style-type: none"> ○ Quantity 	180.200(c)	11101/ 4/8/27
Machinery Equipment (MI)		
<ul style="list-style-type: none"> □ Bilge and high-water alarms <ul style="list-style-type: none"> ○ Location 	182.530(b)	13104
Hull Inspection (HI)		
<ul style="list-style-type: none"> □ Subdivision and damage stability requirements <ul style="list-style-type: none"> ○ Presence of collision bulkhead <ul style="list-style-type: none"> ● >65' OR >49 pax OR exposed waters OR wood hull after 2001 & cold water OR >40' & partially protected ○ Subdivision <ul style="list-style-type: none"> ● >65' OR >49 pax OR wood hull after 2001 & >12 pax OR SOLAS 	179.210 179.210(b)(4) 171.085 179.212(a) 171.040	02199/ 03199
<ul style="list-style-type: none"> □ Wood hull <ul style="list-style-type: none"> ○ Condition <ul style="list-style-type: none"> ● <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> ○ Stress areas (garboard plank, stem, chine, etc.) ○ Bungs for running rust or blisters ○ Caulking ○ No unauthorized repairs 	176.610(a) MSM.71/B.1B.1 176.610(a) NVIC 7-95 4.A-F NVIC 7-95 4.N 176.610(a) NVIC 7-95 4.K.1 NVIC 7-95 4.L 176.700	02199
<ul style="list-style-type: none"> □ Wood hull fasteners <ul style="list-style-type: none"> ○ Location of fasteners to be pulled <ul style="list-style-type: none"> ● <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</i> 	176.610(b) NVIC 7-95 4.K.1	02199

Wood Vessel Addendum

Action	Ref	Code
<i>5 years thereafter for salt water service:</i>		
<ul style="list-style-type: none"> • <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> • <i>Shaft logs</i> • <i>Under engine beds</i> 		
<ul style="list-style-type: none"> ○ Condition of fastenings ○ Document type, condition, material, and location of fastenings ○ Through bolts (keel, chine, clamp, double frame, floor timber bolts, etc.) (when needed) ○ No unauthorized fastenings 	NVIC 7-95 4.K.1-2 NVIC 7-95 4.K.2 NVIC 7-95 4.K.1-2 NVIC 7-95	02199
<input type="checkbox"/> Internal inspection of wood hull <ul style="list-style-type: none"> ○ Condition ○ Frames and frame heads ○ Sound through bolts (keel, chine, clamp, double frame, floor timber bolts, etc.) ○ No unauthorized repairs 	176.610(b) NVIC 7-95 4.A-F MSM.71/ B.1.B.1 NVIC 7-95 4.F.1.A NVIC 7-95 4.K.1 176.700	02199
<input type="checkbox"/> Repair(s) <ul style="list-style-type: none"> ○ Extent of decay, defect(s) and damage ○ Repair proposal ○ Repair materials ○ Inspect repair(s) 	177.10-1 176.610 NVIC 7-95 176.700 176.700 & 177.300 NVIC 7-95 Ch. 5 NVIC 7-95 Ch. 3 Lloyd's Yachts & Small Craft 176.610 NVIC 7-95 Ch. 5	02199

Drydock & Internal Structure Examination Addendum

Action	Ref	Code
Hull Inspection (HI)		
<ul style="list-style-type: none"> □ Steel and aluminum hulls 	<ul style="list-style-type: none"> 176.802 176.610 176.802(a)(1) NVIC 7-68 IV(B) 	02106
<ul style="list-style-type: none"> ○ Wastage, defect(s) and damage (<i>Shell, Keel and Bilge keel, High stress locations and welds, etc.</i>) ○ Critical areas (<i>stringer plate, sheer plate, etc.</i>) ○ Seachests, piping and overboard discharges for wastage, defect(s) and damage ○ Condition of drydock (bottom) plugs 	<ul style="list-style-type: none"> NVIC 11-80 176.802(a)(2) NVIC 7-68 II(A) 176.802(a)(7) NVIC 7-68 II(A) MSM.71/B.3.B NVIC 7-68 III(C) ABS 7-A-4/27 	03199
<ul style="list-style-type: none"> ○ Wastage/corrosion is within limits 	<ul style="list-style-type: none"> NVIC 7-68 III(C) ABS 7-A-4/27 	02106
<ul style="list-style-type: none"> □ Hull markings 	<ul style="list-style-type: none"> 185.602 175.122 SOLAS XI-1/3 SOLAS XI-1/3 185.602 67.123 33-173.27 33-181.23 	03199
<ul style="list-style-type: none"> ○ Draught (draft) marks & load marks (>65' or SOLAS) ○ Load Line & Deckline (>79' or SOLAS) ○ IMO Hull marking (SOLAS) ○ Machinery space marking (SOLAS) ○ Name and hailing port/State number • <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> • <i>State numbers are required on both sides of the bow.</i> 	<ul style="list-style-type: none"> SOLAS XI-1/3 185.602 67.123 33-173.27 33-181.23 	02120
<ul style="list-style-type: none"> □ Tailshaft(s), stern bearing(s) and propeller(s) 	<ul style="list-style-type: none"> 176.670 MSM.71/B.3.D.3 176.670 Manufacturer's Inst 176.670 176.670 176.670 176.670 MSM.71/B.3.D.10 176.610(a) 	03199
<ul style="list-style-type: none"> ○ Determine if tailshaft(s) needs to be drawn ○ Bearing clearance & inboard seal assembly ○ Visually examine entire shaft (<i>if in question</i>) ○ Non-destructive testing (NDT) of the shaft's taper section and keyway (<i>if in question</i>) ○ NDT of propeller coupling bolts and flange radius (<i>if in question</i>) ○ Condition and wear/tear of strut bearing(s) 	<ul style="list-style-type: none"> 176.670 MSM.71/B.3.D.3 176.670 Manufacturer's Inst 176.670 176.670 176.670 MSM.71/B.3.D.10 176.610(a) 	03199

Drydock & Internal Structure Examination Addendum

Action	Ref	Code
<ul style="list-style-type: none"> • 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. Wear may also be taken on wood bearings with a small wedge. The wedge is inserted between the shaft and then removed. The impressed clearance is measured with a micrometer to determine the wear. Maximum wear 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. ○ Condition of propeller 	176.610(a)	03199
<ul style="list-style-type: none"> • NDT if in question 		
<ul style="list-style-type: none"> □ Rudder installation ○ Type of assembly installed ○ Examine rudder assembly for deterioration and defects ○ Rudder bearing clearance(s) are within limits ○ Condition of pintle(s), gudgeon(s), bushing(s), pintle nut(s) and locking device(s) ○ Condition of pintle by nondestructive test (NDT) (if in question) 	176.814 MSM.71/B.3.E.2 176.610(a) Manufacturer's Inst MSM.71/B.3.E.2 MSM.71/B.3.E.2	02105
<ul style="list-style-type: none"> □ Hull appendages ○ Condition and structural integrity of bilge keel ○ Condition of keel coolers ○ Condition of transducers and other similar appendages ○ Bow/stern thrusters ○ Shaft & rudder packings 	176.610(a) 182.422	03199
<ul style="list-style-type: none"> □ Anchor chain(s) ○ Length of chain, satisfactory condition • <i>Such as wastage</i> ○ Chain locker for satisfactory condition 	184.300	09228
<ul style="list-style-type: none"> □ Sea valve(s) ○ Quantity and type • <i>Valves within 6" of waterline on a through hull penetration</i> ○ All sea valves are properly identified and are opened for examination 	176.610 179.350(c)&(d) 176.610	03199

Drydock & Internal Structure Examination Addendum

Action	Ref	Code
<ul style="list-style-type: none"> ○ External and internal components <ul style="list-style-type: none"> • <i>Verify correct operation of valve components</i> • <i>Verify correct seating (blue or pressure test if needed)</i> 	176.610	03199
<ul style="list-style-type: none"> □ Anti-Fouling Requirements (SOLAS) <ul style="list-style-type: none"> ○ Vessel particulars <ul style="list-style-type: none"> IMO Res MEPC.195(61) 4 ○ COI has Anti-Fouling endorsement or IAFS Certificates (>400 ITC) <ul style="list-style-type: none"> AFS Art.3 AFS Annex 4 (1) ○ IAFS Declaration or SOVC (<400 ITC & >24m) <ul style="list-style-type: none"> MSM.71/B.3.J AFS Annex 4 (5) ○ Identification of applied Anti-Fouling System <ul style="list-style-type: none"> MEPC.195(61) 4.2 ○ Vessel particulars on Record of Anti-Fouling Systems <ul style="list-style-type: none"> AFS Annex 4 App. 1 MEPC.195(61) 4.1 ○ Anti-Fouling Systems details provided <ul style="list-style-type: none"> MSM.71/B.3.J MEPC.195(61) 4.2 & 5 ○ No change in Anti-Fouling System has occurred since issuance of IAFS Certificates <ul style="list-style-type: none"> MEPC.195(61) 5.2 MSM.71/B.3.J 		14701 01131 01131 14701/3 14702 14701 14702
<ul style="list-style-type: none"> □ Inspect fiberglass external hull <ul style="list-style-type: none"> ○ Condition <ul style="list-style-type: none"> 176.610(a) NVIC 8-87 Ch. 5 ○ Stress areas <ul style="list-style-type: none"> 176.610(a) NVIC 8-87 Ch. 5 ○ Area in way of through hull fittings <ul style="list-style-type: none"> 176.610(a)-(b) NVIC 8-87 Ch. 5.E ○ Damage/unfairness/delamination <ul style="list-style-type: none"> 176.610(a)-(b) NVIC 8-87 Ch. 5.C ○ No unauthorized repairs <ul style="list-style-type: none"> 176.700 NVIC 8-87 Ch. 6 		02106
<ul style="list-style-type: none"> □ Fiberglass internal hull <ul style="list-style-type: none"> ○ Condition <ul style="list-style-type: none"> 176.610(a) NVIC 8-87 Ch. 5 ○ Stress areas <ul style="list-style-type: none"> 176.610(a) NVIC 8-87 Ch. 5 ○ Area in way of through hull fittings <ul style="list-style-type: none"> 176.610(a)-(b) NVIC 8-87 Ch. 5.E ○ Damage/unfairness/ delamination <ul style="list-style-type: none"> 176.610(a)-(b) NVIC 8-87 Ch. 5.C ○ No unauthorized repairs <ul style="list-style-type: none"> 176.700 NVIC 8-87 Ch. 6 		02199
<ul style="list-style-type: none"> □ Fiberglass repair(s) <ul style="list-style-type: none"> ○ Extent of damage, defect(s) and/or delamination <ul style="list-style-type: none"> 176.610 NVIC 8-87 Ch. 6 ○ Repair proposal <ul style="list-style-type: none"> 176.700 NVIC 8-87 Ch. 6 		02199

Drydock & Internal Structure Examination Addendum

Action	Ref	Code
○ Repair materials	176.700	
○ Inspect repair(s)	NVIC 8-87 Ch. 4 176.610 NVIC 8-87 Ch. 4	
Internal Structural Examination (IS)		
□ Confined spaces are safe for entry	29-1915.12(f) CIM 5100.47A/6.G.9.c NFFPA 306/4.3	99101
○ Marine Chemist certificate		
○ 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) NFFPA 306/4.6.2	
○ No changes to vessel's condition Forced ventilation is provided (IAW Marine Chemist Cert.)	29-1915.15(b) 29-1915.13(b)(3)	
○ Condition of space access point	29-1915.76	
□ Internal structures	176.610(b) 176.802 MSM.71/B.3.B	02199
○ Frames		
○ Floors		
○ Shelves, brackets, clamps		
○ Bulkheads		
○ Tank tops		
○ Coamings, closures & other fittings		
○ Wastage is within acceptable limits	NVIC 7-68 III(C)	
□ Watertight integrity	176.802 179.360	
○ Hull openings and closures		03199
○ Deck openings and closures		03104/10
○ Watertight doors	MSM IV/6.1.5	03107
○ Watertight subdivisions/bulkheads	MSM.71/B.1.E.5 179.350 171.114 171.119	03199
□ Stability	171 Sbpt H 178 Sbpt D	
○ Drainage		03112/3
○ Major changes/modifications		01326
○ Solid ballast		01326
○ Self-bailers and cockpit freeing ports	178.510 178.420	03112/3
● <i>Check valves</i>		
● <i>Required area</i>		

Drydock & Internal Structure Examination Addendum

Action	Ref	Code
Structural/Watertight Integrity (SW)		
<ul style="list-style-type: none"> □ Hatches and Class-1 watertight doors 	<ul style="list-style-type: none"> 171.124 179.330 	<ul style="list-style-type: none"> 03104/10 03107
<ul style="list-style-type: none"> ○ Condition of knife edges ○ Condition of gasket material 	<ul style="list-style-type: none"> MSM.71/B.1.E.5 	<ul style="list-style-type: none"> 03104/10 03107
<ul style="list-style-type: none"> ○ Verify watertight integrity between gasket and knife edge ○ Condition and operation of hinges and dogging devices ○ Operation of Class-1 door's quick-acting closing device ○ Operation of indicator lights at the control station ○ Markings 	<ul style="list-style-type: none"> 170.270 MSM.71/B.1.E.5 179.330 179.330(b) 185.610 	
<ul style="list-style-type: none"> □ Inspect Class 2 & 3 watertight doors 	<ul style="list-style-type: none"> 171.124 179.330(c) 170.270(c)(2) ASTM F1197/7.1 ASTM F1197/7.1 170.270(c)(1) ASTM F1196/3.1.6 ASTM F1196/6.3 ASTM F1197/11.5 ASTM F1197/11.2 ASTM F1197/11.4 185.610 ASTM F1196/11.1 ASTM F1196/S4 ASTM F1196/S1 170.270(c)(3) ASTM F1197/S3 	<ul style="list-style-type: none"> 03107
<ul style="list-style-type: none"> ○ Operation of local controls ○ Operation of remote controls ○ Condition of replaceable interface between door and frame assembly ○ Operation of alarms ○ Closing times are in compliance ○ Markings ○ Watertight integrity 		
<ul style="list-style-type: none"> ○ Operation of doors under reserve power 		
<ul style="list-style-type: none"> □ Watertight bulkhead penetrations 	<ul style="list-style-type: none"> 179.320(c) 171.114 171.119 182.720(d)(1)(ii)(C) MSM.71/B.1.E.5 179.320(d) 	<ul style="list-style-type: none"> 03199
<ul style="list-style-type: none"> ○ Locations – <i>as high up and inboard as possible, number of penetrations should be minimized.</i> ○ Watertight ○ Free of sluice valves 		
<ul style="list-style-type: none"> □ Hull structure 	<ul style="list-style-type: none"> 177.300 MSM.71/B.1.E.1 177.10-1 	<ul style="list-style-type: none"> 02199
<ul style="list-style-type: none"> ○ Damage, wastage and fractures ○ No unauthorized repairs 	<ul style="list-style-type: none"> 176.700 2.15(a)(2) 	<ul style="list-style-type: none"> 02106 02199

Drydock & Internal Structure Examination Addendum

Action	Ref	Code
Welding Repair Inspection (WR)		
<ul style="list-style-type: none"> □ Steel and aluminum structural repair proposals <ul style="list-style-type: none"> ○ Extent of damage and/or wastage/corrosion ○ Repair proposal ○ Repair materials ○ Welding procedures ○ Alternative repair methods for equivalency ○ Welder's proficiency & qualifications 	<p>177.10-1 176.700(d) 177.300 NVIC 7-68 IV ABS 2-4-1/5.19</p> <p>176.700(d) NVIC 7-68 IV 176.700(d) NVIC 7-68 IV 176.700(d) 177.340 MSM.70/A.5.A 176.700(d)</p>	<p>02199</p> <p>02199</p>
<ul style="list-style-type: none"> □ Aluminum fit-up <ul style="list-style-type: none"> ○ Material & fitted with approved joint detail ○ Materials (base, filler, gas) ○ Welding processes 	<p>177.10-1 177.300(b) NVICs 7-68 & 11-80 ABS 30.1</p> <p>ABS 30.1</p> <p>ABS 30.1.3</p>	<p>02199</p>
<ul style="list-style-type: none"> □ Steel fit-up <ul style="list-style-type: none"> ○ Material & fitted with approved joint detail ○ Materials (base, filler, gas) ○ Welding processes 	<p>177.10-1 177.300(b) NVIC 7-68 IV ABS 2-4-1/3</p> <p>176.700(b) ABS 2-1-1/1.1 176.700(b)</p>	<p>02199</p>
<ul style="list-style-type: none"> □ Defects in welds <ul style="list-style-type: none"> ○ Examine welds for uniformity and reinforcement ○ Examine welds for porosity, overlap, undercut, cracks, slugging and slag inclusion ○ Examine adjacent base metal for injurious arc strikes, spatter and sharp or deep undercut 	<p>176.700(b) 177.300(b) ABS 2-4-1/5.15.1 ABS 30.5.8 (Aluminum)</p> <p>NVIC 7-68 V(H) ABS 2-4-1/5.15.1 ABS 30.5.8 (Aluminum)</p> <p>NVIC 7-68 V(H) ABS 2-4-1/5.15.1 ABS 30.5.10 (Aluminum)</p>	<p>02199</p>
<ul style="list-style-type: none"> □ Back gouge (if used) <ul style="list-style-type: none"> ○ Examine welds for defects (discontinuity) ○ Proper weld sequencing 	<p>176.700(b) 177.300(b) NVIC 7-68 V(G)(2) ABS 2-4-1/5.9</p> <p>NVIC 7-68 V(F) ABS 2-4-1/5.3 ABS 30.5.5 (Aluminum)</p>	<p>02199</p>

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.
Analgesic 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