

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"/>	O/N: <input type="checkbox"/>	Covered SPV: <input type="checkbox"/> (O/CW/ON)
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"/> Tier I Follow-On
<input type="checkbox"/> SIP	<input type="checkbox"/> In Service	<input type="checkbox"/> SMS (ISM) <input type="checkbox"/> Voluntary SMS

Inspection Aid T1
Rev. Feb 2026
CVC-FM-840T(3)

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.
- Marine Safety Manual Volume II is now contained in seven COMDTINSTs. Cites for the MSM now read as MSM.70/A.6.C with .7X indicating the COMDTINST number.
- This Inspector Reference cites SOLAS regulations from the 2020 Consolidated Edition (SOLAS 20). In some cases, the regulations in SOLAS 20 may not apply due to the keel laid date of the vessel. Marine Inspectors must pay close attention to the applicability dates of the SOLAS chapters and Subchapter 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

- Tier I Follow-On Minimum Inspection Items
- ◆ Reduced Annual Minimum Inspection Items
(*Inspection item markings to left of check boxes*)

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

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

Example classification code: **09112**

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

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

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

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

- 09** – Working Conditions (System Name)
- 1** – Living Conditions (Subsystem Name)
- 12** – Medical Equipment (Component Name)

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

Example: CG001

(This is the classification code for Certificates of Inspection)

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

Example: 02114/5/6

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

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◆◆Section 1: 2026 Focus Areas

Action	Ref	Code
<input type="checkbox"/> Verify electronic charting systems (when carried in lieu of custom paper charts) <ul style="list-style-type: none"> ○ Check for manufacturer's declaration of conformity to RTCM 10900 <ul style="list-style-type: none"> • <i>May be accessible on screen</i> • <i>May be in manual</i> ○ Inside the boundary line <ul style="list-style-type: none"> • <i>Class B</i> • <i>Minimum 7.8" x 7.8" screen</i> ○ Outside the boundary line <ul style="list-style-type: none"> • <i>Class B w/ IEC 60945 hardware</i> • <i>Minimum 7.8" x 7.8" screen</i> ○ Verify vessel position shown on screen matches vessel's actual position <ul style="list-style-type: none"> • <i>Position data provided by type-approved electronic position fixing device (aka GPS)</i> ○ Verify mariner familiarization with system functions <ul style="list-style-type: none"> • <i>Waypoint plotting</i> • <i>Voyage planning</i> • <i>Adjusting scale</i> 	184.420 NVIC 01-16 Ch3 CG-NAV PL 01-23	10112
<input type="checkbox"/> Verify custom paper charts <ul style="list-style-type: none"> ○ All NOAA raster charts have been cancelled and CANNOT be corrected! <ul style="list-style-type: none"> • <i>Must have custom chart from NOAA Custom Chart tool or chart from foreign gov't hydrographic agency</i> ○ Custom chart must be printed w/in last 6 months ○ Covers entire area of operations 		10111
<input type="checkbox"/> Verify bridge visibility <ul style="list-style-type: none"> ○ Sufficient size & location to provide adequate view for safe navigation 	177.1030 177.100 33-83.05	10128
<input type="checkbox"/> Ensure navigation lights unobstructed <ul style="list-style-type: none"> ○ Side lights visible from ahead and abeam, and not visible from astern ○ When separate, masthead and stern lights do not overlap ○ ≥ 12 m: Masthead light visible from abeam, not visible from astern. ○ ≥ 12 m: Stern light not visible from abeam ○ < 12 m: May have combined masthead/stern light (i.e., all-around white light) 	183.420 33-83.22	10109

Section 2: Dockside Assessment (DA)

Action	Ref	Code
<input type="checkbox"/> 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
◆ <input type="checkbox"/> 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	176.502	
○ SPV Decal is posted	176.310	
◆ <input type="checkbox"/> Vessel's stability letter	170.120 178.210 178.220	01326
○ Presence of stability documents	176.306	
○ Required contents	178.230	
◆◆ <input type="checkbox"/> Merchant Mariner Credentials (MMCs)		01201
○ MMCs meet COI manning requirements	15.515 10.205(g)	
• <i>Route</i>	15.805(a)(4)	
• <i>Position</i>	15.810(b)(4)	
• <i>Tonnage</i>		
○ Presence of original MMCs	185.402	
○ Validity	10.205(a) 10.205(b)	
○ Senior Deckhand (<i>if applicable</i>)	MSM III B.2.C NVIC 1-91 NVIC 1-91 CH-1	
<input type="checkbox"/> Drug and alcohol program		18299
○ Currency of Employee Assistance Program (EAP)	16.401	
○ Presence and currency of drug and alcohol testing equipment (on board or available within 2 hrs)	185.210 185.212 4.06-15	
○ Training of designated testing crewmember (when applicable)	4.06-20(b)(2) 4.06-20(a)(3)	
○ Random chemical testing program for dangerous drugs	16.230	
○ Pre-employment testing program for dangerous drugs	16.210	
○ Means of post-accident testing chemical testing for dangerous drugs	185.210 185.212 4.06-15	
◆ <input type="checkbox"/> Maintenance and service records		
○ Firefighting service reports	176.810	07199
○ Liferaft servicing reports	185.730	11199

Section 3: Certificates & Documents (CD)

Action	Ref	Code
<input type="checkbox"/> Vessel General Permit (VGP) (>79') <ul style="list-style-type: none"> ○ Notice of Intent (NOI) has been submitted ○ Compliance with ballast water record keeping requirements ○ Noncompliance & reportable quantity reports have been submitted 	VGP 1.5.1.1 & 10 VGP Table 1 CG543 PL 11-01 VGP 4.3 CG-543 Policy Ltr 11-01	99103
<input checked="" type="checkbox"/> <input type="checkbox"/> Muster lists and emergency instructions <ul style="list-style-type: none"> ○ 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 in each pax cabin 	185.510 185.512 185.514 185.510(a) 185.514(c) 185.515	04108
<input checked="" type="checkbox"/> <input type="checkbox"/> 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 	67.313, 67.321 67.17, 67.19 67.161, 67.163	CG003
<input type="checkbox"/> Federal Communications Commission Marine Radio Operator Permit	47-80.159(e)	01104
<input type="checkbox"/> Federal Communications Commission Bridge-to-Bridge Certificate (>65') <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
<input type="checkbox"/> 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) 47-80.25	05103
<input type="checkbox"/> 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	05103

Section 4: Logs and Manuals (LM)

Action	Ref	Code
◆ □ Vessel's log		
○ EPIRB tests (high seas, >3nm)	185.728	01305
• <i>Monthly</i>		
○ Drills	185.520	11199
• <i>Date/Description</i>	185.524	CG004
• <i>Abandon ship</i>		
• <i>Man Overboard</i>		
• <i>Fire</i>		
• <i>Rescue Boat</i>		
• <i>Security (SOLAS)</i>		
○ Maintenance of survival craft, rescue boats, and launching appliances	185.702(d)	11199
• <i>Instructions onboard (>65')</i>	185.722	
• <i>Falls End-End (30 months)/ Replace (5 years)</i>	185.726	
• <i>Monthly inspections IAW Mfr's instructions</i>		
• <i>Annual inspections (rescue boat, davit, batteries)</i>		
□ Covered SPV logging requirements		01305
○ Crew egress training (monthly, new crew)	122.420(b)(3)	
○ <i>Overnight only: passenger egress drills</i>	122.507(b)	
□ Waste/Garbage Management Plan (Route >3nm, Domestic)	184.702	
○ Management Plan (>40')	33-151.51	
○ Placard (>26')	33-151.57	14503
	33-151.59	14502
□ Crew and passenger list maintained (<i>Ocean/Coastwise [O\C] and overnight or disembark or embark at different ports.</i>)	185.502	10127
□ Voyage plan prepared (<i>O/C or overnight.</i>)	185.503	10127
□ Passenger count.	185.504	10127
○ Communicated verbally or in writing to rep onshore		
◆ □ Safety orientation.	185.506(a)	10127
○ Placards may substitute on ferries w/ <15 min voyage	185.506(b)	
○ Voyages >24 hours, pax are required to don lifejackets and head to embarkation station	185.506(e)	
□ Overnight only: Passenger egress drill	185.507	

Section 5: Bridge/Navigation (BN)

Action	Ref	Code
<ul style="list-style-type: none"> ◆ <input type="checkbox"/> Operations of internal communication and control systems <ul style="list-style-type: none"> ○ Means of communication from operating station to propulsion machinery space (Pilothouse, Aux Steering) 184.602 04116 ○ Operation of Public Address System 184.610 04101 <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 184.620 13199 <ul style="list-style-type: none"> • <i>Except multiple engine vessels w/independent control systems</i> 		
<ul style="list-style-type: none"> <input type="checkbox"/> Radar(s) (>49 pax, O/LC/GL) Operation Manual 10103 <ul style="list-style-type: none"> ○ Safety precautions are followed 184.404 ○ Verify operation 184.115(a) 		
<ul style="list-style-type: none"> <input type="checkbox"/> Magnetic compass (<i>All, except Rivers, Non-self-propelled, short-LBS</i>) 184.402(c) 10105 <ul style="list-style-type: none"> ○ Illumination (Nighttime Ops) 184.115(a) <ul style="list-style-type: none"> • <i>(New T + OCMI discretion)</i> ○ Mounting location ○ Operation 		
<ul style="list-style-type: none"> <input type="checkbox"/> Electronic position-fixing device (satellite navigation (GPS) receiver) (<i>Oceans route</i>) 184.410 10115 <ul style="list-style-type: none"> • <i>Old T-L at OCMI discretion</i> 184.115(a) Operation Manual 		
<ul style="list-style-type: none"> <input type="checkbox"/> Automatic Identification System (AIS) (≥65 ft) 33-164.46 10113 <ul style="list-style-type: none"> ○ Class A required if operating in VTS Area OR operating faster than 14 knots ○ Class B accepted otherwise ○ Verify correct vessel info 		
<ul style="list-style-type: none"> <input type="checkbox"/> Radio telephone equipment (>20m, power-driven) 184.502 05103 <ul style="list-style-type: none"> ○ Installation(s) 47-80.1003 ○ Equipment for operational area(s) 47-80.1015 ○ Equipment for operational area(s) 47-80.1069 ○ Emergency broadcast placard 184.506 05101 ○ Functional test 47-80.931 ○ Functional test 184.510 		

Section 5: Bridge/Navigation (BN)

Action	Ref	Code
<input type="checkbox"/> Navigational publications (<i>as appropriate for route, excerpts & electronic carriage are allowed</i>)	184.420 NVIC 01-16 Ch3	10116
<input type="checkbox"/> Tide Tables		
<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"/> COLREGs	COLREG A/1 33-88.05	
<input type="checkbox"/> Inland Navigation Rules		
<input type="checkbox"/> Steering system controls at operating station	182.610(a)-(c) <i>176.25-35</i> <i>182.30-1</i>	13199
<input type="checkbox"/> Operation and control		
<input type="checkbox"/> Operation of rudder angle indicator (Power-driven main steering)	176.814 182.610(f)(2)	13199
<input type="checkbox"/> Steering gear transfer instructions are posted (>65', Aux Steering)	182.610(g)(2)	
<input type="checkbox"/> Visual means to indicate operation of power unit(s)(>65')	182.610(g)(1)	
<input type="checkbox"/> Test throttles		13101
<input type="checkbox"/> Operational test	176.804(a)	
<input type="checkbox"/> <i>Ahead and astern</i>		
<input type="checkbox"/> <i>If multi-engine, do test for each one separately</i>		
<input type="checkbox"/> Single engine vessels: Verify two means of propulsion control	184.620(a)	
<input type="checkbox"/> Electronic control systems: Conduct power failure test IAW manufacturer's instructions; should not increase shaft speed or propeller pitch	176.804(b) 184.620(c)	
<input type="checkbox"/> Alarms and gauges at operating station		08199
<input type="checkbox"/> Bilge high level alarms (>26')	182.530(a)-(b)	
<input type="checkbox"/> Automatic bilge pump indicator	182.530(c)	
<input type="checkbox"/> Flammable vapor detection system (Gasoline)	182.480(a) 182.480(d)	
<input type="checkbox"/> Propulsion engine gauges	<i>182.410(b)</i>	
<input type="checkbox"/> <i>RPM, JW discharge temp, LO pressure (RPM not required for Old T)</i>	<i>182.20-5</i>	
<input type="checkbox"/> Audible or visual alarm for exhaust cooling system (Wet Exhaust)	182.425(b)(5)	

Section 5: Bridge/Navigation (BN)

Action	Ref	Code
<input type="checkbox"/> Distress signals	180.68	11116
○ USCG type approval	160.021 160.036 160.037 180.68	
○ 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>VsIs on short runs limited to 30 mins do not need to carry distress signals</i> 	180.68(c) 180.68(d)	
○ Expiration date	185.726(c)	
○ Stowed in brightly colored, portable watertight container or pyrotechnic locker	185.614 180.68(e)	
○ Marked "Distress Signals"	185.614	
<input type="checkbox"/> Emergency instructions	185.510	15107
○ Master & crew familiar		
○ Recommended emergency instructions format (outline): <ul style="list-style-type: none"> • <i>(1) Rough weather at sea, crossing hazardous bars, or flooding.</i> • <i>(2) Man overboard.</i> • <i>(3) Fire</i> 	185.512	
○ 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.		
<input checked="" type="checkbox"/> <input type="checkbox"/> Watch monitoring device – <i>Overnight only</i>	185.410(b)	08199
○ <i>Keeps night watchman awake</i>		
○ <i>Alerts other crew if watchman is not awake</i>		

Section 6: General Health & Safety (GH)

Action	Ref	Code
<input type="checkbox"/> Upper decks marked for maximum number of PAX as per stability letter	185.602(g)	01310
◆ <input type="checkbox"/> Accommodations (Crew & Passenger)		09198
○ Location	177.800 177.25	09114
○ Number of berths	177.710 177.30-7	09117
• <i>No more than 3 high</i>		
• <i>Berth >60" above deck must have fitted access</i>		
• <i>Wood, FRP, metal construction</i>		
• <i>Required for crew if vessel is operated >12hrs in a 24hr period.</i>		
○ Spaces are of appropriate size	177.810 177.800	09117
◆ <input type="checkbox"/> Accessibility to escape routes	177.15-1	07120
• <i>Not located directly above, or dependent on a berth.</i>	177.810 177.500 177.500(n)	
○ Ventilation	177.600(c)	09103
○ Sanitary condition	176.818 177.800(c)	09114
◆ <input type="checkbox"/> General alarm	183.550	08101
• <i>All vsls with overnight accommodations</i>		
• <i>Public address system may be used.</i>		
○ <i>Interconnected smoke detection & alarm units in pax spaces (see Section 8: Firefighting)</i>	118.400(d)	07106
○ Proper operation of detectors/alarm units	181.450	07106
<input type="checkbox"/> Structural Fire Protection	177.405	07101
○ Noncombustible trim	177.410	07103
○ Fire-resistant furnishings	177.10-1 177.10-5	09116
• <i>Must comply with 116.423</i>		
◆ <input type="checkbox"/> Means of escape from accommodation, machinery and other spaces		07120
○ Means of escape (2) – widely separated (<i>adequate size ≥32"</i>), operable from either side and open towards expected escape direction	177.500 177.15-1 177.500(n)	
• <i>Effective 12/27/2023 - Two means of escape which are unobstructed and the door, hatch, or scuttle is not located directly above, or dependent on a berth.</i>		
• <i>Exemptions for 2 escapes in 177.500(p)</i>		
◆ <input type="checkbox"/> Routes are accessible	177.500	
◆ <input type="checkbox"/> Emergency lighting (see Section 10)	183.432 184.30-5	04103
○ Markings	185.606	07120
• <i>"EMERGENCY EXIT, KEEP CLEAR" 2" Letters</i>		
<input type="checkbox"/> Mess deck and galley spaces		
○ Sanitary conditions	176.818	09106

Section 6: General Health & Safety (GH)

Action	Ref	Code
○ Cooking fuel restrictions	MSM.70/A.6.C 184.202	09124
● No gasoline, no open flames		
○ Cooking equipment requirements	184.200	09124
● Grab rails, locking, fitted for use in heavy seas	ABYC A-3 ABYC A-7 NFPA302 184.220	
○ LPG and LNG cooking systems	NFPA 302 184.240	09124
● Remote shutoff valve (if system in enclosed space)		
○ Condition of vents and ducts	177.600(d)	09201
● Ducts above frying vats or grills constructed of >11-gauge steel		
○ Structural fire protection surrounding cooking and heating appliances	177.410(c)(1) 177.10-5	07101 07103
○ Grease extraction hood	181.425	07109
● Meet UL 710 & be equipped with a dry or wet chemical fire extinguishing system		
<input type="checkbox"/> First aid kit	184.710	09112
○ Marked "First Aid Kit"		
○ Watertight container		
○ Easily visible & readily available to crew		
○ USCG Approved	160.041	
● List of equivalent contents on last page of 840T		
<input type="checkbox"/> Portable lights	183.430	04103
○ At least 2 onboard		
○ Located at operating station & at access to propulsion machinery space		
<input type="checkbox"/> No unsafe conditions or practices exist	176.830	09298
○ Slips, trips, falls		
○ Sharp edges		
○ Swinging loads/gear adrift		
<input type="checkbox"/> Paint locker(s): <i>Enclosed space used to store paint or other flammables</i>		
○ Fire protection equipment	181.20-1 181.400(a)(7)	07109
○ Space construction material	177.405(d) 177.10-5(c)	07101
● Steel or equivalent		
○ Electrical installations (see section 10)	183.530	02108
○ Means to secure ventilation	177.600(b)	09201
● Power ventilation must have means of being shut down from pilot house		

Section 7: Lifesaving Equipment (LS)

Action	Ref	Code
◆ □ Emergency Position Indicating Radio Beacon (EPIRB) (<i>High seas or ≥ 3NM on Great Lakes</i>)	180.64	05111
○ Registration	47-80.1061(e)-(f)	
○ Marked with vessel name	185.604(c)	
○ Stowage	180.64	
• <i>To automatically float free and activate</i>		
○ Hydro-static release expiration date	185.740	
○ Battery date	185.728(b)	
◆ □ Life jackets	180.71	11118
○ USCG type approval	180.71(c)	11130
	160.002	
	160.005	
	160.055	
○ Quantity	180.71(a)-(b)	11118
• <i>Adult lifejackets for each person on board; reqs for child size or extended sizes vary</i>		
○ Stowage	180.78	
• <i>Readily accessible & distributed throughout accommodation spaces</i>	185.604(f)	
• <i>Containers not capable of being locked & when practical allow 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)	
• <i>vessel name</i>	185.604(b)&(h)	
• <i>retro-reflective material</i>		
○ Lights	180.75	
• <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)	
• <i>Those found to not meet condition & suitability should be destroyed</i>	176.808(d)	
○ Inflatable life jackets must be serviced annually by approved facility		
○ Each life jacket fitted with a whistle (SOLAS)	199.70(b)(4)	
□ Personal Floatation Devices (<i>work vests</i>) carried in addition to lifejackets (<i>if present</i>)	180.72	11118
○ 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)	
○ Stowed separately and in a manner so as to not be confused with pax lifejackets	180.78(b)	
◆ □ Ring Life Buoys		11117
○ USCG type approval	180.70(b)(1) 160.050	
○ Quantity & size	180.70(a)	
• ≤ 26' → 1x 20"	180.70(b)	
• 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 the body of LB</i>		
• <i>If only one, attached to lanyard w/ corrosion resistant clip</i>		
• <i>Verify batteries</i>		
○ Markings	185.604	
• <i>O/C – orange</i>	180.70(b)	
• <i>LBS/R can be white</i>	160.050-3(b)	
• <i>Vessel name in block capital letters</i>	160.050-6	
• <i>Retro-reflective tape</i>	180.70	
○ Condition and suitability	176.808(b) 176.808(d)	
◆ □ Inflatable liferaft & inflatable buoyant apparatus installations		11108 11027
○ USCG type approval	180.200(a)(1) & (3)	11130
○ Quantity (route dependent, always verify with Table 180.200(c))	180.200(c) Table	11108 11027
○ Stowage	180.130	11108 11027
• <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>		
• <i>Readily accessible to crew for quick launch</i>		
• <i>Fully equipped as required IAW 180.175 (b)&(c)</i>		

Section 7: Lifesaving Equipment (LS)

Action	Ref	Code
<ul style="list-style-type: none"> • <i>Sheltered from breaking seas and fire damage</i> • <i>Stowed to prevent shifting</i> 		
○ Markings	180.175(b)/(c)	11108
<ul style="list-style-type: none"> • <i>Vessel Name</i> • <i>Port of registry</i> 	185.518 160.151-33	11027
○ 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> 		
○ Emergency instructions are posted	185.510	11131
○ CG approved embarkation ladder (<i>required when embarkation station is >10' from lightest operating waterline</i>)	180.150	11124
○ Servicing/expiration of hydrostatic release	180.150(b)	11135
○ Hydrostatic release installed correctly	185.740 180.130(c)	11129
◆ □ Lifefloat & Buoyant Apparatus installations (when present)		11108 11027
○ USCG type approval	180.200(a)(2)	11130
○ Quantity (<i>route dependent</i>)	180.200(c) Table	11108
○ Stowage	180.137	11108
<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 < 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> • <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 <4ft high and</i> 		

Section 7: Lifesaving Equipment (LS)

Action	Ref	Code
	<i>that spacers are used between devices (spacer material is not specified)</i>	
○ Markings	185.604(a)	11108
• <i>Vessel name</i>	160.010-8	11027
• <i>Capacity</i>		
• <i>Retro-reflective tape</i>		
○ Embarkation ladder	180.150	11112
• <i>Required when embarkation station is > 10ft from lightest operating waterline</i>		
○ Required equipment	180.175(d)-(f)	11110
• <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>		
○ Emergency instructions are posted	185.512 (a)(1)(ix)	11131
◆ □ Rescue boat	180.10-35	11104
○ > 65ft must carry at least one rescue boat unless OCMI determines:	180.210(a)	
• <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)	
• <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>		
○ USCG type approval	180.210(d)	11130
• <i>Protected waters: 160.056,</i>	160.056	
• <i>Exposed, partially protected waters: 160.156</i>	160.156	
○ Stowage	185.700	11104
• <i>Deck where stowed or boarded must be kept clear of obstructions that would interfere with boarding and launching craft</i>	180.130	
• <i>Stowed to prevent shifting</i>		
• <i>Sheltered, as far as practicable, from breaking</i>		

Section 7: Lifesaving Equipment (LS)

Action	Ref	Code
	<i>seas and fire damage</i>	
<ul style="list-style-type: none"> • <i>Ready for immediate use by crew</i> 		
○ Markings	185.604(i)	11104
<ul style="list-style-type: none"> • <i>Vessel name</i> (each side of bow) • <i>Capacity</i> (each side of bow) • <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	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> 	180.210(c) 180.10-35	
○ Adequate means are provided for transferring a victim from a rescue boat or platform to the deck of the vessel— Check during MOB drill	176.808(g)	
○ Embarkation ladder	180.150(b)	11130
<ul style="list-style-type: none"> • <i>Required when embarkation station is >10' from lightest operating waterline</i> • Note: <i>Vessels that are not required to carry a rescue boat may or may not be required to carry a rescue platform. If the vessel is configured in such a manner as to be able to recover a person from the water without a platform, 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> 		
◆ □ 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>)	180.130(c) 180.150(c)	11112 11113
○ Materiel condition	176.808	
<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	185.704(b)	
○ Falls have been end for ended at least every 30 months	185.704(a)	
<ul style="list-style-type: none"> • <i>SOLAS does not allow end for end; falls are replaced every 5 years</i> 		
○ Automatic disengaging apparatus functions correctly	180.150(c)	
○ Operating instructions are posted	185.512(a)(1)ix	

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 ○ Vessel ≤ 65 ft & > 49 pax; or vessels > 65 ft <ul style="list-style-type: none"> • <i>50 GPM & pressure of 60 psi at pump</i> ○ Ferry Vessel ≤ 65 ft & ≤ 49 pax <ul style="list-style-type: none"> • <i>10 GPM & project a hose stream from the highest hydrant through hose & nozzle a distance of 25'</i> ○ Self-priming & power driven <ul style="list-style-type: none"> • <i>May be connected to bilge system to meet 182.520</i> ○ Fitted with gauge <ul style="list-style-type: none"> • <i>≤ 65' & >49 pax; or > 65'</i> ○ Location of controls and markings <ul style="list-style-type: none"> • <i>Main operating station and local</i> ○ Operation of fire pump from remote control(s) ○ Materiel condition of system <ul style="list-style-type: none"> • <i>No excessive leaking</i> 	<ul style="list-style-type: none"> 181.300(b)-(c) 181.10-1 181.10-5 181.15 181.310(a) 181.300(b) 181.300(c) 181.300(a) 181.300(d) 181.300(b) 181.300(e) 181.300(e) 182.710 	<ul style="list-style-type: none"> 07110 07113
<ul style="list-style-type: none"> □ Fire stations <ul style="list-style-type: none"> ○ A fire hose with a nozzle must be attached to each fire hydrant at all time ○ Number of hydrants <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 <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 (vsls 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 approved under 46 CFR 162.027 or type recognized by Commandant.</i> • <i>≤65' & ≤49 pax - May have a garden hose ≥0.625" in diameter & ≥25' but ≤50' with suitable construction; Nozzle must be corrosion resistant</i> 	<ul style="list-style-type: none"> 181.310(a) 181.15-5 181.320(a) 181.15-10(d) 181.310(a) 181.15-5 181.310(a) 181.320(b)-(c) 181.15-10 CVC PL 18-04 	<ul style="list-style-type: none"> 07110 07113

Section 8: Firefighting System (FF)

Action	Ref	Code
<i>& be able to switch from stream to spray.</i>		
○ Operation of valves at fire stations	181.310(c)	07110
● <i>Each hydrant must have a valve to allow the hose to be removed while F/M is under pressure.</i>		07113
◆ □ Fire Bucket	181.610	07110
○ Verify size – 2.5 Gallons		
○ Verify quantity – 3		
○ Verify lanyard – <i>Up to OCMI</i>		
○ Verify marking – “FIRE BUCKET” in contrasting colors		
◆ □ Portable fire extinguishers		07110
○ Location and stowage	181.500	
● <i>Clearly visible, readily accessible from space being protected to the satisfaction of the OCMI.</i>	181.520	
	181.30 / 181.500	
○ Servicing compliance	176.810	
● <i>Annual service IAW NFPA 10</i>	NFPA 10	
	Ch 4,7,8	
○ Condition of cylinder(s) and hose(s)	NFPA 10 Ch 7	
○ Presence of required type & quantity	176.810	
	181.500(b)	
	CVC PL 18-04	
◆ □ Semi-portable firefighting equipment		07110
○ Location and stowage	181.500	
● <i>Clearly visible, readily accessible from space being protected to the satisfaction of the OCMI.</i>	181.520	
	181.30-12	
○ Servicing compliance	176.810(b)	
● <i>Annual service IAW NFPA 10</i>	NFPA 10	
	Ch 4,7,8	
○ Condition of cylinder(s) and hose(s)	NFPA 10 Ch 7	
○ Presence of required type & quantity	176.810	
	181.500(c)/(d)	
	CVC PL 18-04	
□ Fire axe(s)	181.600	07110
● <i>> 65' must have at least one fire axe located in or adjacent to the primary operating station</i>	181.35-1	
◆ □ Fixed fire extinguishing system installed in the required spaces	181.115(b)	07106
	181.400(a)	
	181.20-1	
	NVIC 3-95	
○ Fitted with an approved fixed gas system or alternative system		07106
● <i>Propulsion machinery space</i>		
● <i>A space containing an internal combustion engine > 50 hp</i>		
● <i>Space containing oil-fired boiler</i>		
● <i>Space containing machinery powered by gasoline or other fuel with a flashpoint of 110°F</i>		

Section 8: Firefighting System (FF)

Action	Ref	Code
	<i>or lower</i>	
<ul style="list-style-type: none"> • <i>A paint locker</i> • <i>A storeroom containing flammable liquids (including liquors of 80 proof or more, packed in individual containers ≥ 2.5 gal)</i> • <i>Alternative system types & exceptions to the requirements</i> • <i>Annual service; Hydrostatic test every 5 years; Testing or renewal of flexible connections/hoses</i> 	181.400 176.810(a)(5) 147.60 147.65	
○ An enclosed vehicle space	181.405(d)	
<ul style="list-style-type: none"> • <i>Must be fitted w/ an automatic sprinkler system IAW 76.25</i> 		
○ Partially enclosed vehicle spaces must be fitted with a manual sprinkler system that meets the requirements of 46 CFR 76	181.405(e)	
◆ □ High pressure CO2 system(s)	181.115(b) 181.410 181.20	07109
○ Safety precautions are implemented prior to servicing system	MSM.72/C.2.1.5	
○ Servicing compliance	176.810(b)(2)	
○ Cylinders are weighed annually		
○ Cylinders are hydrostatically tested	176.810(a) NVIC 6-72 CH 1	
<ul style="list-style-type: none"> • <i>Fixed CO2 every 12 years – date stamped on bottle</i> 	NVIC 3-95	
○ Testing or renewal of flexible connections/hoses (46 CFR 147.65)	176.810(a)(6)	
○ Odorizing unit (installed or “altered” after 9 July, 2013)	181.410(f)(8)	
○ Lockout valve on spaces >6000ft ³	181.410(f)(7)	
○ Stowage of cylinders	181.20-30	
○ Must have manual ventilation closures on protected space	181.20-35 181.410(b)(10)	
○ Material condition of system components		
<ul style="list-style-type: none"> • <i>Controls and valves must be located outside the protected space</i> • <i>Must have remote controls in a break glass enclosure</i> • <i>Must have manual controls at the storage cylinders.</i> 	181.20-15 181.410(c) 181.410(b)(4) 181.410(b)(3)	
○ Piping and nozzles are clear	176.810(a)	07109
○ 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)	

Section 8: Firefighting System (FF)

Action	Ref	Code
◆ □ 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	181.420(a)(2)	
○ 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)(3)	07116
○ System is installed per manufacturer's instructions	181.420(a)(4)	07109
○ Servicing requirements	176.810(b)(2) Manufacturer's Inst.	07124
○ Operation of following from the operating station:	181.420(b)(1)	07109
• <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>		
◆ □ Fire and smoke detection systems		07106
○ Appropriate spaces are equipped	181.405(c)	
• <i>Propulsion machinery space</i>	181.405	
• <i>Space containing internal combustion engine > 50hp</i>	181.05-5	
• <i>Space containing oil-fired boiler</i>	177.410(c)(3)	
• <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>		
• <i>Vessels w/ overnight accoms: Must have an interconnected fire detection system in compliance with § 181.450 installed in all enclosed areas where passengers and crew have routine access, including accommodation spaces and machinery spaces.</i>		

Section 8: Firefighting System (FF)

Action	Ref	Code
○ Witness system test		07106
○ Operation of control unit's visual and audible alarms (if applicable)	176.810(a)(7)	
○ Zoning (if present)	181.405(a)	
○ Location and spacing of detectors	76.27-5 76.27-10	
□ Structural fire protection on fiberglass hull		07101
○ Verify fire retardant resin (when applicable)	177.410(b)	07103
• <i>Hull, bulkheads, decks, deckhouse, or superstructure of a vsl is partially or completely constructed of a composite material including FRP</i>	181.115(b) 177.10-5	07105
○ 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.72/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, function of limit switches and timing requirements for rudder movements.</i>		
○ Accuracy of rudder angle indicator	182.610(f)(2)	
• <i>When fitted w/ power driven main steering gear</i>		
○ Steering control transfer procedures	182.610(g)(2)	
• <i>>65' with power driven main steering gear</i>		
○ Witness operational test of auxiliary (emergency) steering arrangement (when fitted with emergency steering)	182.620(a)-(b) 182.620(a)(2)	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>		
□ Fuel oil service system	182.435 182.440 182.20-22 182.20-25	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)	
• <i>Each tank is fitted with an appropriately sized vent pipe connected to its highest point</i>	182.450 182.15-35	

Section 9: Machinery & Auxiliary Machinery (MI)

Action	Ref	Code
<ul style="list-style-type: none"> • <i>Approved piping (material & size) is used in the fuel oil service system</i> 	182.20-35 182.445(a)	
<ul style="list-style-type: none"> • <i>Shutoff valves fitted at tank connection (remote emergency fuel shutoff valve; if located in machinery space, ≤ 12" w/in the space and shielded from flames) & engine end of fuel line</i> 	182.15-40 182.20-40 182.455(b)(4)	
<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> 	182.15-40(b)(3) 182.20-40(b)(3) 182.455(b)(6) 182.15-40(b)(5) 182.20-40(b)(5)	
○ Portable fuel system	182.458 ABYC H-25	13199
<ul style="list-style-type: none"> • <i>Only permitted for portable dewatering pumps or outboard motor installations</i> 		
○ Witness tests of remote shutdown(s)	182.455(b)(4) 182.15-40(b)(3) 182.20-40(b)(3)	
○ Nonmetallic flexible hoses and fittings	182.720(e) 182.410(d)	
<ul style="list-style-type: none"> • <i>Double hose clamps, lengths permitted, approved standards</i> 	182.40-5 182.15-40(a) 182.20-40(a)	
□ Main propulsion system(s)	182.200	13101
○ Condition, installation and arrangements of system components	182.220	13108
<ul style="list-style-type: none"> • <i>Steam & electrical propulsion must meet requirements of Subchapter F & Subchapter J</i> 	182.15-1 182.20-1 182.310 182.420	
<ul style="list-style-type: none"> • <i>Water cooled or meets exceptions for air cooling</i> 	182.15-10	
<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> 	182.20-10	
<ul style="list-style-type: none"> • <i>Reliable means of shutting down a propulsion engine at the main pilothouse control station</i> 	182.200(b) 184.620 175.10-29	
○ Foundations for structural integrity	176.402(c)(1) 182.200	
○ Installation of protective covers or guards over exposed gears, belts or other rotating machinery	MSM.71/B.1.F 176.830(a)	09233
○ System hull penetrations for structural integrity	179.350	03199
<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> 		
<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	
○ Operational test of main propulsion machinery (see Section 5: Bridge/Navigation)	176.804(a)	13101

Section 9: Machinery & Auxiliary Machinery (MI)

Action	Ref	Code
<input type="checkbox"/> Novel systems should be inspected to the Design Basis Agreement approved by the USCG prior to installation of the novel system.	175.540	13199
<input type="checkbox"/> Unfired pressure vessels (UPVs) <ul style="list-style-type: none"> ○ Data plate(s) are legible ○ Determine if UPV is exempt from inspection ○ External exam, internal exam and/or hydrostatic test needs ○ External (5 yrs) ○ Internal (5 yrs when accessible) ○ Witness hydrostatic test (if needed) (1.5 MAWP) ○ Installation & operation of pressure gauges ○ 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 	182.330 54.10-20 54.01-15 176.812 61.10-5(b) 61.10-5(d)&(e) MSM.71/ B.1.O.4.a 61.10-5(b)(1) 61.10-5(b)(2) 54.01-35 61.10-5(d) 61.10-5(e)(4) MSM.71/ B.1.O.4.b 54.15-5(f) 54.15-5 61.10-5(i) 54.15-10 (a)&(g)	13199
<input type="checkbox"/> Potable water system (when fitted) <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) ○ Installation and arrangement of piping and valves ○ Water heaters comply with Parts 53 & 63 EXCEPT: <ul style="list-style-type: none"> • <i>Electric water heaters rated at not more than 100 psi and 250 °F are acceptable if:</i> <ul style="list-style-type: none"> -Capacity ≤ 120 gallons; -Heat input ≤ 200,000 Btu/hour; -UL listed (174 or 1453); AND -Protected by pressure-temperature relief device ○ Water heater must be installed & secured from rolling by straps or other devices 	21-1250.82 MSM.70/ A.6.C.2.a 21-1250.95 54.01-15(a) 54.01-15(a)(2) 21-1250.82 182.320 182.320(c)	09130

Section 9: Machinery & Auxiliary Machinery (MI)

Action	Ref	Code
◆ □ Bilge system		13104
○ Location and operation of pump(s) IAW Table 182.520(a)	176.804(h) 182.115(a)-(b)	
● <i>If there is a portable hand bilge pump must be:</i>		
● <i>Capable of pumping water, but not necessarily simultaneously, from all watertight compartments; and</i>	182.520	
● <i>Provided with suitable suction hose capable of reaching the bilge of each watertight compartment and discharging overboard</i>	182.25-10	
○ Manifolds, valves and piping	182.510	
● <i>≤ 65ft must have piping ≥ 1in</i>	182.25-5	
● <i>> 65ft must have piping ≥ 1.5in</i>	182.40-5(b)	
● <i>Bilge suction will be fitted with a suitable strainer with an open area ≥ 3Xs the area of the bilge pipe</i>		
○ Vessels ≥ 26ft in length	182.530	
○ Visual & audible alarm at the operating station to indicate a high water level in each of the normally unmanned spaces		
○ Vessels ≥ 26ft in length	182.510(a)	
○ Provided with individual bilge lines and bilge suctions for each watertight compartment with the exception of the spaces fwd of the collision bulkhead	182.25-5(a)	
● <i>When the arrangement of the vessel is such that ordinary leakage may be removed from this compartment by the use of a hand portable bilge pump or other equipment, & such equipment is provided</i>		
○ Witness bilge system operational test	176.804(h)	
○ Pollution placard is posted (>26' length)	33-155.450	14502
□ Exhaust system(s) (wet & dry)	182.425 182.430	13199
○ Condition	176.804(c)	
● <i>As an alternative vessels may comply with ABYC P-1</i>		

Section 9: Machinery & Auxiliary Machinery (MI)

Action	Ref	Code
○ Dry Exhaust systems		
• <i>Exhaust pipes are clear of & suitably insulated from combustible materials and suitably insulated to prevent injuries</i>	177.405(b) 177.10-5(b)	
• <i>Exhaust pipes installed on wood and FRP boats are installed IAW ABYC P-1 (designed to arrest sparks; metallic connections are flanged, threaded or welded; and flexible sections are seamless stainless steel)</i>	182.15-15 182.15-20 182.20-15 182.20-20 182.425(c)	
• <i>Horizontal dry exhaust pipes:</i>		
-Do not pass through living or berthing areas	177.970	
-Terminate above the deepest load waterline	177.35-15	
-Are arranged to prevent entry of cold water from rough or boarding seas	182.425(a)(2)	
-Are constructed of corrosion-resisting material at the hull penetration	182.15-15	
○ Exhaust systems cooled by water	182.425(b)	13199
• <i>Cooling water from engine cooling system or from a separate engine driven pump</i>	182.15-15	
• <i>Cooling water injected into exhaust system as close as possible to engine exhaust manifold so water passes through the entire length of the exhaust pipe</i>	182.430(g) 182.15-15(b)(4)	
• <i>Fitted with insulation or water jacketed between the exhaust manifold and the point of cooling water injection and if a vertical exhaust pipe, to ensure no water is mixed with exhaust gasses</i>	182.425(b)(5) 182.15-15(b)(5)	
• <i>Provided a suitable warning device, visual or audible, at operation station to indicate reduction in water flow when cooling water provided from source other than engine cooling system</i>	182.425(b)(6) 182.15-15(b)(6)	
• <i>Provided with a suitable strainer in the intake line.</i>		
□ 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	13199
○ Columns, gauge glasses and gauge cocks	61.05-15(e)	
○ Steam gauge	61.05-15(f)	
○ Safety valves	61.05-10 Table 61.05-20	
○ Operation of safety relief valves	176.704	
• <i>Twice in 5 yrs, no more than 3 yrs between tests; relieves at a pressure ≤ 10% above or below the valve's marked pressure</i>	61.05-10 Table 61.05-20	
○ Pressure-relieving device setting does not exceed the MAWP & the device does not relieve at a pressure greater than the MAWP	54.15-10	

Section 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 <u>EXCEPT</u> in accommodation space, radio room, galley or similar space.</i> • <i>Fixtures installed before 2025: comply w/ UL 595, UL 1570, Subchapter J, or table below</i> • <i>Fixtures installed 2025 or later: Approval standard in accordance with table below:</i> 	183.10-20(l)													
	MSC PRG E2-23													
<table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="width: 30%;">Exterior, > 50V</td> <td>UL 1598A (appropriate for location used) UL 1149 IEC 60092-306</td> <td></td> </tr> <tr> <td>Interior emer. lights</td> <td>UL 1598A UL 1149 IEC 60092-306 UL 924</td> <td></td> </tr> <tr> <td>Haz. areas</td> <td>UL 844 IEC 60079</td> <td>183.530</td> </tr> <tr> <td>All others</td> <td>Meet general requirements of 183 subpart B</td> <td></td> </tr> </tbody> </table>			Exterior, > 50V	UL 1598A (appropriate for location used) UL 1149 IEC 60092-306		Interior emer. lights	UL 1598A UL 1149 IEC 60092-306 UL 924		Haz. areas	UL 844 IEC 60079	183.530	All others	Meet general requirements of 183 subpart B	
Exterior, > 50V	UL 1598A (appropriate for location used) UL 1149 IEC 60092-306													
Interior emer. lights	UL 1598A UL 1149 IEC 60092-306 UL 924													
Haz. areas	UL 844 IEC 60079	183.530												
All others	Meet general requirements of 183 subpart B													
○ Navigation lights	183.420													
<ul style="list-style-type: none"> • <i>> 65 ft: Must comply with UL 1104, EN 14744, or ABYC C-5</i> • <i>≤ 65 ft: Comply with applicable Navigation Rules</i> • <i>Verify unobstructed</i> 	MSC PRG E2-23 CG-ENG PL 01-25 33-83.22													
○ 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> 	184.30-5													

Section 10: Electrical Systems Inspection (ES)

Action	Ref	Code
<ul style="list-style-type: none"> • <i>Are connected to an automatic battery charger; and</i> • <i>Have sufficient capacity for ≥ 2 hours of continuous operation</i> 		
○ Overcurrent protection	183.380 UL 489	09209
□ 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 (located in a 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> • <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> 	183.354	
○ Space for maintenance and removal	183.350(c)	02108
○ 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)	
◆ □ Lithium Ion (Li-ion) battery installations	CG-ENG PL 02-19	02108
○ Li-ion battery installations should be assessed using the CG-ENG Policy Letter 02-19 “Design guidance for Li-ion battery installations onboard commercial vessels” or the submitted, USCG approved plan for initial installation.		
□ Electrical cable & fixtures	183.340	02108
	183.05-45&50	
	183.10-20	
○ 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

Section 10: Electrical Systems Inspection (ES)

Action	Ref	Code
<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 electrical 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> • <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> 		
○ Condition of outlets	183.340(g)	02108
○ Connection types	183.340(h)-(i)	
□ Components installed in designated hazardous areas		02108
○ 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> 		
○ Electrical equipment for hazardous area(s)	183.530(b)	
<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> 	183.530(c) 111.105	
○ Integrity of equipment		

Section 11: Structural/Watertight Integrity (SW)

Action	Ref	Code	
♦ <input type="checkbox"/> Hatches and Class-1 watertight doors	171.115	03104	
	171.124	03107	
	179.330	03110	
	○ Condition of knife edges		
	○ Condition of gasket material	MSM.71/ B.1.E.5	03104 03107
	○ Verify watertight integrity between gasket and knife edge		
	○ Condition and operation of hinges and dogging devices	170.270 MSM.71/ B.1.E.5	
	○ Operation of Class-1 door's quick- acting closing device	179.330	
	○ Operation of indicator lights at the control station	179.330(b)	
○ Markings	185.610		
<input type="checkbox"/> Inspect Class 2 & 3 watertight doors	171.115 171.124 179.330(c) 170.270(c)(2)	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 & /6.3		
○ Operation of alarms	ASTM F1197 /11.5		
○ Closing times are in compliance	ASTM F1197 /11.2 & 11.4		
○ Markings	185.610		
○ Watertight integrity	ASTM F1196 /11.1, S4, S1		
○ Operation of doors under reserve power	170.270(c)(3)		
<input type="checkbox"/> Watertight bulkhead penetrations		03199	
○ Locations – <i>as high up and inboard as possible, number of penetrations should be minimized.</i>	179.320(c) 171.114 171.119		
○ Watertight	182.720(d)(1) MSM.71/ B.1.E.5		
○ Free of sluice valves	179.320(d)		
<input type="checkbox"/> Hull structure	177.300 MSM.71/ B.1.E.1 177.10-1	02199	
○ Damage, wastage and fractures		02106	
○ No unauthorized repairs			

Section 12: Pollution Prevention Inspection (PP)

Action	Ref	Code
<input type="checkbox"/> Sewage system	184.704	14402
○ Presence of manufacturer's instructions	33-159.57	
○ Operation		
○ Capacity	33- 159.57(b)(8)	
○ Piping and wiring	33- 159.57(b)(6)	
○ Marine Sanitation Device (MSD) approval & labeled Type I, II, or III	33-159.97 MSM.71/ B.6.F.4	
○ Instructions & warning placard posted	33-159.7 33-159.59	
○ Overboard discharge valve is closed and secure	33-159.7(b) 33-159.7(c)	
• <i>Methods of locking & securing and applicability of locking & securing in 33 CFR 159.7(b) & (c)</i>		
<input type="checkbox"/> Garbage handling (MARPOL Annex V) survey (when applicable)		
○ Plan compliance	184.702 33-151.51&.57 MARPOL V/9.2	14503 01320
○ Handling of plastics	33-151.55 MARPOL V /9.3(b)	
○ Placards posted (>26')	33-151.59 MARPOL V/ 9.1(a)	14502
• <i>Prominent locations</i>		
• <i>Readable by crew & pax</i>		
• <i>Durable, 5in x 8in</i>		
<input type="checkbox"/> Oil pollution prevention		
○ Oil pollution placard posted (>26')	33-155.450	14502
• <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	176.830	07126
<input type="checkbox"/> Vessel General Permit (VGP) compliance verification (when applicable)	CG-543 PL 11- 01 FWPCA Sect. 402 VGP 1.5.1.1 CG-543 PL 11- 01	99103
○ Discharges are in compliance with VGP	VGP 2.2.3.2	
○ Log entries	VGP 4.1.1.1 VGP 4.2 VGP 4.3	

Section 13: Topside Equipment Inspection (TE)

Action	Ref	Code
<ul style="list-style-type: none"> ◆ <input type="checkbox"/> Freeing ports and scuppers <ul style="list-style-type: none"> ○ No modifications ○ Unobstructed ○ Free operation of any flowback device (if applicable) 	<ul style="list-style-type: none"> 171 Sbpt H 176.700 178 Sbpt D 178.230 Stability Letter 	03112
<ul style="list-style-type: none"> <input type="checkbox"/> Ground tackle, mooring lines & related equipment <ul style="list-style-type: none"> ○ 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 	<ul style="list-style-type: none"> 184.300 184.10-1 	09228 09299
<ul style="list-style-type: none"> ◆ <input type="checkbox"/> Port lights, dead covers & natural vent openings <ul style="list-style-type: none"> ○ Covers are readily available & operational ○ Closing devices have proper fit & seal <ul style="list-style-type: none"> • <i>Dogs, rims, seats, hinges and lugs</i> ○ Port lights & dead covers have proper fit & seal 	<ul style="list-style-type: none"> 171.119 182.460(l) 182.465(h) 179.350(a) 179.350(b) 	03106
<ul style="list-style-type: none"> <input type="checkbox"/> Fuel tank venting <ul style="list-style-type: none"> ○ Condition and location ○ Installation and condition of flame screen(s) ○ Installation of vent piping ○ Vent size ○ Condition of flexible vent pipe sections 	<ul style="list-style-type: none"> 182.20-35 182.450(d) 182.450(f) ABYC H-33 & H-24 182.450(e) 182.450(h) 182.450(b)&(c) 182.450(g) 	02107
<ul style="list-style-type: none"> <input type="checkbox"/> Rails and guards <ul style="list-style-type: none"> ○ Rail heights & courses <ul style="list-style-type: none"> • <i>39.5", 200lb point load, 50lb uniform load minimum</i> ○ Storm rails ○ Guards for vehicles 	<ul style="list-style-type: none"> 177.900 177.35-1 177.920 177.35-5 177.940 177.35-10 	03103

◆ Section 14: Human Factors & Safety Culture

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?
 - Who conducts the maintenance?
 - Does it align with the manufacturer's manuals?

◆ Section 14: Human Factors & Safety Culture

- 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?
-

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		

- Did crew member sound alarm?
 - Did crew member attempt initial action?
 - Did the Master turn the vessel into the wind, slow down, etc, and make announcements to crew/pax and make the call to local CG or vessels in surrounding area?
 - Did Master control situation from helm, make announcements and communicate effectively with the crew?
 - Did crew members take control of the situation and direct pax as appropriate?
 - Did crew members communicate effectively with Master, other crew members and pax?
 - Was a charged fire hose or fire bucket provided?
 - Did crew member effectively fight fire with portable fire extinguishers, close off ventilation closures, secure power and fuel?
 - Did the crew know how to operate and deploy the Fixed Fire Extinguishing System and /or fire pump (if available)?
 - Did the crew understand which agent they were using?
 - Did the drill follow the SOLAS training and operations manual, the emergency instructions, and/or placards posted?
 - What are your procedures if you receive a smoke detection alarm?
 - How often do you charge a fire hose during drills so crew can become familiar with handling the hose? (If applicable)
 - How often are fire drills completed?
 - Do you discuss topics with the crew including fire boundaries, containing the fire and activation of suppression systems?
 - How does the crew conduct crowd control during an emergency?
 - Which crew member is responsible for this in each location?
-

Section 17: Man Overboard Drill

<input type="checkbox"/>	Evaluate Man Overboard Drill	176.808(g)	CG004
<input type="checkbox"/>	○ Verify ability to recover a helpless person	185.520	
<input type="checkbox"/>	○ Verify crew's ability to organize	180.210	
<input type="checkbox"/>	○ Verify crew's familiarity with their duties	185.700	
<input type="checkbox"/>	○ Witness launching of rescue boat (when applicable)	180.10-35	
<input type="checkbox"/>	○ Evaluate crew's proficiency in handling and maneuvering the rescue boat in the water (when applicable)		
<input type="checkbox"/>	○ Verify operational readiness and condition of rescue platform (when applicable)		

- Did the crew throw Oscar or fender overboard?
 - Did the crewmember call out "man overboard" and which side of the vessel the victim fell over and begin pointing to the victim?
 - Did crewmember throw ring life buoy or PFD, fender or other flotsam overboard?
 - If at night, was the waterlight attached to the ring life buoy and was it deployed immediately?
 - Did the Master approach the victim with a plan and was he successful?
 - Did Master sound danger signal, mark position, course and speed, announce situation to crew/pax and make the call to local CG or vessels in surrounding area?
 - Did the Master control the situation from helm, make announcements and communicate effectively with crew?
 - Did the Master approach the victim with a plan and was he successful?
 - Did the crewmembers properly don PFDs, take control of the situation and direct passengers as appropriate?
 - Did crew members communicate effectively with the Master, other crewmembers and pax?
 - When alongside, did crewmembers have a plan for retrieving the victim?
 - Did they use a boat hook or fish gaff to retrieve the victim?
 - Did they use a ring life buoy or other safe lifesaving device to reign in the victim?
 - When the victim was recovered, did the crew complete basic first aid that included the ABCs?
 - Did the drill follow the training and operations manual or emergency instructions?
-

Section 18: Abandon Ship Drill

<input type="checkbox"/> Evaluate abandon ship drill	176.808(g)	04110
<input type="radio"/> Witness drill	185.520	
<input type="radio"/> Verify means or summoning crew and passengers		
<input type="radio"/> Verify crew's familiarity with assigned duties		
<input type="radio"/> Verify all lifejackets are correctly donned		
<input type="radio"/> Witness means of launching survival craft		

- Did the Master simulate broadcasting a mayday on the radio and provide the vessel position, number of persons onboard and type of distress?
 - Were life jackets properly donned by crew and pax?
 - Did the crew have a plan (demonstrate as necessary) on how to deploy and marshal the vessel's primary lifesaving devices?
 - Did the Master simulate activating the EPIRB?
 - Did the drill follow the training operations manual or SOLAS training materials or emergency instructions and/or others placards posted?
-

Section 19: Passenger Egress Drill

<input type="checkbox"/> Evaluate passenger egress drill (overnight only)		04110
<input type="radio"/> Verify drill normally conducted prior to each trip w/ new pax	185.507(a)	
<input type="radio"/> Verify logbook entry includes date/time, number of participants	185.507(b)	
<input type="radio"/> Verify ability for passenger to easily egress to embarkation station	185.506(e) 176.500(o)	
<input type="radio"/> Verify passengers don lifejackets during each drill w/ clear instructions from crew	185.506(e)	

International Voyages Certificates and Documents (CD)

Action	Ref	Code
<input type="checkbox"/> Passenger Ship Safety Certificate (Int'l Route, >12 pax) <ul style="list-style-type: none"> ○ Presence ○ Validity ○ Contents 	176.910(a) SLS.14/Circ.87 Dated 11/15/89 SOLAS I/12(a)(i) 176.910(c) SOLAS I/14 176.910(a)-(b) SOLAS I/15	01103
<input type="checkbox"/> Engine International Air Pollution Prevention (EIAPP) Certificate (Int'l Route, Marine Diesel >130kW) <ul style="list-style-type: none"> ○ Presence ○ Correct engines identified & no changes have been made ○ Statement of Compliance (issued by Manufacturer) is accompanied by EPA issued EIAPP 	MARPOL VI/13.1 MARPOL VI/13.8 NOx Code 2.1.1 MARPOL VI/13.1.1 CG-543 PL 09-01 5.b	01125
<input type="checkbox"/> International Air Pollution Prevention Certificate (IAPP) and Supplement Record of Construction and Equipment (<i>Int'l Route, >400 GT ITC</i>) <ul style="list-style-type: none"> ○ Vessel particulars on IAPP and Record of Construction and Equipment ○ Annual, intermediate, renewal, repair and extension endorsements and/or change in anniversary date ○ Ozone depleting substances identified ○ Nitrogen Oxide emission sources identified ○ Sulphur Oxide (fuel oil) requirements identified ○ Incinerator installation identified (when applicable) ○ Validity of alternatives or equivalents 	MARPOL VI/8 MARPOL VI/5 MARPOL VI/12 MARPOL VI/13 CVC-WI-022 MARPOL VI/14.5 MARPOL VI/16 MARPOL VI/4	01124
<input type="checkbox"/> Anti-Fouling Requirements (Int'l Route) <ul style="list-style-type: none"> ○ Vessel particulars ○ COI has Anti-Fouling endorsement or IAFS Certificates (>400 ITC) ○ IAFS Declaration or SOVC (<400 ITC & >24m) 	MSM.71/B.3.J IMO Res MEPC.195(61) 4 AFS Art.3 AFS Annex 4 (1) MSM.71/B.3.J AFS Annex 4 (5)	14701 01131 01131

International Voyages Certificates and Documents (CD)

Action	Ref	Code
○ Identification of applied Anti-Fouling System	MEPC.195(61) 4.2	14701
○ Vessel particulars on Record of Anti-Fouling Systems	AFS Annex 4 App. 1 MEPC.195(61) 4.1	14702
○ Anti-Fouling Systems details provided	MSM.71/B.3.J MEPC.195(61) 4.2 & 5	14701
<input type="checkbox"/> International Energy Efficiency Certificate and Record of Construction (<i>Int'l Route, >400 GT ITC, mechanical propulsion</i>)	IMO Res MEPC.203(62) Appendix VIII	01138
○ Vessel particulars		
○ Energy Efficiency Design Index requirements (<i>New ships after 1/1/17</i>)	CG-CVC PL 13-02 7 MEPC.203(62) 20.1	
○ Ship Energy Efficiency Management Plan (SEEMP) is identified	CG-CVC PL 13-02 7.b MEPC.203(62) 22	
○ Technical File requirements are met (>5000 GT ITC)	MEPC.203(62) 20.1	
<input type="checkbox"/> International Oil Pollution Prevention Certificate (IOPP) (<i>Int'l Route, >400 GT ITC</i>)	33-151.19 MARPOL I/9 MARPOL I/2.1-.4	01117
○ Vessel particulars	MARPOL I/9	
○ Vessel type is accurate	33-151.17-.19	
○ Annual, intermediate, extension renewal, or change in anniversary date	33-151.17 MARPOL I/6	
○ Record of construction and equipment	33-151.19 MARPOL I/9	
○ Control requirements for machinery bilge and fuel oil tanks identified	MARPOL I/14	
○ Retention and disposal requirements for oily bilge water holding tanks	MARPOL I/12	
○ Standard discharge connection requirement	33-158.250 MARPOL I/13	
<input type="checkbox"/> Statement of Voluntary Compliance, MARPOL Annex IV (Sewage) (<i>Int'l Route, >400 GT ITC</i>)	NVIC 1-09 Ch1 33-159.53 & .55 IMO Res MEPC.227(64)	01119
○ Vessel particulars		
○ Compliance type		
○ Discharge rate (draft & speed chart) identified		
○ Endorsements (extension or renewal)		
<input type="checkbox"/> Credentials		01299
○ STCW endorsements	10.109(d)	

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

Action	Ref	Code
○ Vessel Security Officer endorsement	STCW I/2.6 15.1113	01217
○ Transportation Worker Identification Credential (TWIC)	10.203(b) CG-543 PL 11-15	16107 01201
○ GMDSS endorsements	47-80.159(d) 47-80.1073 G-MOC PL 04-02	01203
<input type="checkbox"/> International Load Line Certificate (ILLC) (<i>Int'l Route, >150 GT ITC or ≥79'</i>)	175.122	01108
○ Presence	ICLL Art. 16	
○ Validity	42.07-45	01108
○ Certificate form	ICLL Art. 15	
○ Confirm load line observed on hull (Task TII-DA01) matches certificate	ICLL Art. 19	
○ Logbook entries are completed	ICLL Art. 18	
○ Record of Conditions of Assignment (Form LL.11) is present and validates issued Load Line	42.07-5 ICLL I/9	
	42.07-20	
	CG-5212 Policy Notes 5.c	
<input type="checkbox"/> Document of Compliance (ISM-DOC) (<i>Int'l Route, >12 pax</i>)	176.925	01106
○ Presence	SLS.14/ Circ.155 Dated 9/17/98 MSM.74/ E.3.C.5	
○ Validity	33-96.330 SOLAS IX/4.2	
○ Document form	SOLAS IX/5	
○ Alternate compliance arrangements	ISM 13.2-5 ISM 16 175.540	
<input type="checkbox"/> Safety Management Certificate (ISM-SMC) (<i>Int'l Route, >12 pax</i>)	176.925	01107
○ Presence	SLS.14/ Circ.155 Dated 9/17/98 MSM.74/ E.3.C.5	
○ Validity	33-96.340 SOLAS IX/4.3	
○ Certificate form	176.925 SOLAS IX/5	
○ Alternate compliance arrangements	ISM 13.7 ISM 16 175.540	

International Voyages Certificates and Documents (CD)

Action	Ref	Code
<input type="checkbox"/> 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
<input type="checkbox"/> Vessel particulars	SOLAS XI-1/5.3	
<input type="checkbox"/> Company name & address match		
<input type="checkbox"/> ISSC verification type with date	ISPS A/19.1.1	
<input type="checkbox"/> ISSC endorsement (Intermediate or additional)	ISPS A/19.1.1	01122
<input type="checkbox"/> Additional ISSC verifications, extensions, renewals or expiry advancements are completed	ISPS A/19.3.4	
<input type="checkbox"/> CSR is present & valid	SOLAS XI-1/5.1 SOLAS XI-1/5.3 SOLAS XI-1/5.4.1-3 SOLAS XI-1/5.3	
<input type="checkbox"/> CSR information matches ISSC		
<input type="checkbox"/> Certificate of Documentation (COD) (<i>>5 NT, Int'l Route</i>)	67.17 67.19	CG003
<input type="checkbox"/> Registry endorsement		
<input type="checkbox"/> Tonnage Certificate (<i>Int'l route</i>)	69.11	01132
<input type="checkbox"/> Presence		
<input type="checkbox"/> Validity	69.69	
<input type="checkbox"/> Correct measurement system	NVIC 11-93 CH-3	
<input type="checkbox"/> Vessel particulars remain valid	ICTM Art. 3	
<input type="checkbox"/> MARPOL Placards, Garbage Management Plans, & Record Keeping (<i>Int'l Route, >12 pax</i>)		
<input type="checkbox"/> Placard (<i>>12m length</i>)	MARPOL 10.1.1	14502
<input type="checkbox"/> Management Plan (<i>≥15 POB</i>)	MARPOL 10.2	14503
<input type="checkbox"/> Record Book (<i>≥15 POB</i>)	MARPOL 10.3	01320

International Voyages Logs & Manuals Inspection (LM)

Action	Ref	Code
<input type="checkbox"/> Official logbook		01305
○ Presence	185.280(a)	
○ Verify entries	185.280(b)	
<input type="checkbox"/> Maintenance Records	185.724 & .726	11199
○ Shore-based maintenance report for EPIRB	SOLAS IV/15	
○ Maintenance & inspections of survival craft	185.722	
	SOLAS III/20.7	
○ Annual test reports for VHF-DSC, AIS, LRIT & SSAS	SOLAS IV/17	05116
<input type="checkbox"/> Shipboard Oil Pollution Emergency Plan (SOPEP) (>400 ITC)	184.702	01314
○ Applicability	33-151.09 MARPOL I/2	
○ Approval	33-151.27 MARPOL I/37.1	
○ Annual review	33-151.28(a) 33-151.28(d)	
○ Plan organization	33-151.26	
<input type="checkbox"/> Oil and hazardous liquid transfer procedures (≥250 bbls oil/hazmat)	184.702	14105
○ Presence	33-155.720	
○ Person in Charge is identified	33-155.750(a)(4)	
○ Contents	33-155.750	
<input type="checkbox"/> Vessel's training log	SOLAS III/35	01305
○ Presence		
○ Contents		
<input type="checkbox"/> Oil Record Book (ORB) (>400 ITC)	184.702	01315
○ Edition	33-151.25(b) IMO Res MEPC.187(59)	
○ Required signatures	33-151.25(h)	
○ Required entries	33-151.25(h) MARPOL I/Appx III MEPC.1/Circ 736	
○ Compare overboard discharge rate entries with filtering equipment data plate or supplement to IOPP certificate	MARPOL I/7 MARPOL I/Appx III	

International Voyages Bridge/Navigation & Lifesaving/Firefighting

Action	Ref	Code
<input type="checkbox"/> Voyage data recorder (<i>Int'l Route, >12 pax</i>)	SOLAS V/20	10114
<input type="radio"/> Presence		
<input type="radio"/> Installation		
<input type="checkbox"/> Automatic identification system (AIS) (<i>Int'l Route, >12 pax</i>)	33-164.46 SOLAS V/19.2.4	10113
<input type="radio"/> Presence		
<input type="radio"/> Operational		
<input type="checkbox"/> Bridge navigation equipment (<i>Int'l Route, >12 pax</i>)		
<input type="radio"/> Spare magnetic compass	SOLAS V/19.2.2.1	10105
<input type="radio"/> Pelorus or compass bearing device	SOLAS V/19.2.1.2	10105
<input type="radio"/> Means of correcting heading & bearing to true at all times	SOLAS V/19.2.1.3	10106
<input type="radio"/> Electronic plotting aide	SOLAS V/19.2.3.3	10107
<input type="radio"/> Speed & distance measuring device	SOLAS V/19.2.3.4	10103
<input type="checkbox"/> Communication equipment (<i>Int'l Route, >12 pax, Sea Area</i>)	47-80.1101(c)	
<input type="radio"/> Operation of NAVTEX (<i>All</i>)	47-80.905 SOLAS IV/7.1.4	05110
<input type="radio"/> Operation of portable VHF(s) (<i>All</i>)	47-80.1095 SOLAS III/6.2.1	05109
<input type="radio"/> Radar transponder (AIS-SART) (<i>All</i>)	47-80.1085 47-80.1095 SOLAS III/6.2.2	11123
<input type="radio"/> GMDSS radio equipment installation is appropriate for the Sea Area in which the vessel operates	47-80.1095 47-80 Sub W	05118
<input type="radio"/> <i>Sea Area A1 – covered by ≥1 VHF-DSC coast station</i>		
<input type="radio"/> <i>Sea Area A2 – excluding A1; covered by ≥1 MF-DSC coast station</i>		
<input type="radio"/> <i>Sea Area A3 – excluding A1/2; covered by INMARSAT</i>		
<input type="radio"/> <i>Sea Area A4 – excluding A1/2/3</i>		
<input type="checkbox"/> Long range identification and tracking (LRIT) (<i>Int'l Route, >12 pax, Except ships w/AIS in Sea Area A1</i>)	33-169.205(a) SOLAS V/19-1	10137
<input type="radio"/> Presence		
<input type="radio"/> Operational		
<input type="radio"/> Conformance test report		
<input type="radio"/> <i>Check for LRIT exemption in MISLE</i>		
<input type="checkbox"/> Depth sounding equipment (<i>Int'l Rte, >12 pax</i>)	SOLAS V/19.2.3.1	10117
<input type="radio"/> Operational		
<input type="checkbox"/> Global Maritime Distress and Safety System (GMDSS) equipment		
<input type="radio"/> Station ID numbers on applicable equipment	47-80.1083	05118

International Voyages
Bridge/Navigation & Lifesaving/Firefighting

Action	Ref	Code
○ Logs for tests and notations	SOLAS IV/6.2.5 47-80.1075	05115
○ Equipment for operation areas	SOLAS IV/17 47-80.1083- .1095	05103
○ Verify operation of VHF Digital Selective Calling (DSC) radio	SOLAS IV/6.1 NVIC 3-99 47- 80.1085(a)(1)	05109
○ Emergency source of power provided	SOLAS IV/7.1.1 47-80.1099(b) SOLAS IV/13.2 Operations Manual	05114
○ Compliance with maintenance method(s)	47-80.1105(c)	05107
• <i>IV/15.6 Sea Areas A1 & A2 Methods (one) – duplication of equipment, shore-based maintenance, or at-sea maintenance capability</i>	SOLAS IV/15 NVIC 3-99	
• <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>		

International Voyages
Lifesaving & Firefighting (LS)(FF)

□ Immersion suit (SOLAS)	180.10 199.70(c)	11119
○ USCG type approval	SOLAS III/4 160.171	
○ Quantity & size presence	199.70(c)	
○ Verify stowage	199.70(c)(2)&(d)	
• <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	
○ Stowage location	SOLAS II- 2/10.10.3	07108

International Voyages Bridge/Navigation & Lifesaving/Firefighting

Action	Ref	Code
<ul style="list-style-type: none"> • <i>Easily accessible</i> • <i>Permanently & clearly marked</i> • <i>Separated as widely as possible</i> 		
Markings	SOLAS II-2/10.10.3.1	
<input type="checkbox"/> Fire Control Plan (SOLAS)	SOLAS II-2/15.3	07122
<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 	SOLAS II-2/15.3	07122
<input type="checkbox"/> International Shore Connection (SOLAS)	Fire Control Plan	07118
<ul style="list-style-type: none"> ○ Confirm location with Fire Control Plan ○ Gaskets and bolts are with the connection ○ Size, markings, and proper construction 	SOLAS II-2/10.2.1.7 FSS 2.2 IMO Res A.952(23)	

International Voyages Security (SD)

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

Sail Vessel Addendum

Action	Ref	Code
Certificates & Documents (CD)		
♦ <input type="checkbox"/> Master's Merchant Mariner Credential (MMC)	15.901(d)	01201
○ Auxiliary sail endorsement		
<input type="checkbox"/> Rigging Plan	177.202(b)(12) 177.202(c)	99101
○ Vessel information and structure particulars		
○ Marked "examined"	177.202(b)(12) NVIC 2-16 Encl 1 IV	
<input type="checkbox"/> Sail Area Plan (Sail Plan)	NVIC 2-16 Encl 1 IV	99101
○ Sail Plan arrangement in Rigging Plan	177.202(b) (12)(ii)	
○ Sail Plan is incorporated into stability letter	178.210 Stability Letter	
<input type="checkbox"/> Preventative Maintenance Plan	NVIC 2-16 Encl 1 II	99101
○ Rig discrepancy records		
○ On-going maintenance		
Topside Equipment (TE)		
♦ <input type="checkbox"/> Spar(s) & fittings	NVIC 2-16 Encl 1 III(d)	99101
○ Rig arrangement and design	176.802(a)(3) 177.330 Approved Rig Plan Stability Letter	
○ Materiel condition of masts, yards, booms and gaffs	176.802(a)(3)	
○ Mast, yard, boom and gaff fittings	176.802(a)(3)	
○ Head rig (bow sprit/jib boom) spars and fittings	176.802(a)(3)	
<input type="checkbox"/> Standing rigging components (stays and shrouds)	176.802(a)(3) NVIC 2-16 _Encl 1 III(d)	99101
○ 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 (tangs, toggles, point loads)		
○ Shroud/stay attachment to hull (chainplates, stem fittings)		
○ Furler fittings (when applicable)		
○ Spreaders (when applicable)		
<input type="checkbox"/> Rail configuration	177.900(f)	03103
○ Approval for rail height and location		

Sail Vessel Addendum

Action	Ref	Code
○ Configuration IAW with OCMI approval		
◆ □ Running rigging components (used to handle sails and movable spars)	176.802(a)(3) NVIC 2-16 _Encl 1 III(f)	99101
○ Sheets (lines, blocks, shackles, cleats)	176.802(a)(3) NVIC 2-16 _Encl 1 III(f)	99101
○ Halyards (lines, blocks, shackles, cleats)		
○ Topping lift		
○ Sail control system (lazyjack, dutchman) (when applicable)		
○ Furler control sheets/cleats		
○ Cars, tracks, winches, vang and travelers		
□ Rigging/hull components under sail	176.802(a)(3) 176.802(c) 176.404(a)	99101
○ Condition of sails (stitching/grommets/reinforcements)		
○ Crew's ability to set/strike sails	176.802(a)(3) 176.802(c)	
○ Crew safety aloft	176.802(a)(5)	
○ Passenger safety	177.500(d)(3)(v)	
○ Wire tension and fittings on standing rigging	176.802(a)(3) 176.802(c)	
○ Operation of running rigging	176.802(a)(3) 176.802(c)	
○ Hull/mast internal structure	NVIC 2-16 Encl 1 III(f)	
◆ □ Catamaran forestay load path & hull attachments	176.802(a)(3) NVIC 2-16 Encl 1 III(d)	99101
○ Bow tube or beam arrangement		
○ Gull stay/dolphin striker		
○ Bridle stays		

Emergency Drill (ED)

□ Man overboard drill under sail	185.420	CG004
○ Crew's ability to perform duties	185.510	
○ Witness drill	185.512 185.520 NVIC 2-16 Encl 1 III(i)	

Internal Structural Examination (IS)

□ Hull/mast internal support structure	176.802(a)(3) NVIC 2-16 Encl 1 III(g)	02199
○ Mast partner		
○ Mast step structure		
○ Chain plate backing / reinforcement to hull		

Wood Vessel Addendum

Action	Ref	Code
Lifesaving Equipment (LS)		
♦ <input type="checkbox"/> Survival craft	180.200(c)	11101
○ Quantity		4/8/27
Machinery Equipment (MI)		
♦ <input type="checkbox"/> Bilge and high-water alarms	182.530(b)	13104
○ Location		
Hull Inspection (HI)		
<input type="checkbox"/> Subdivision and damage stability requirements		02199 03199
○ Presence of collision bulkhead	179.210	
• >65' OR >49 pax OR exposed waters OR wood hull after 2001 & cold water OR >40' & partially protected	179.210(b)(4) 171.085	
○ Subdivision	179.212(a)	
• >65' OR >49 pax OR wood hull after 2001 & >12 pax OR SOLAS	171.040	
<input type="checkbox"/> Wood hull	176.610(a) MSM.71/B.1B.1	02199
○ Condition	176.610(a)	
• <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>	NVIC 7-95 4.A-F NVIC 7-95 4.N	
○ Stress areas (garboard plank, stem, chine, etc.)	176.610(a)	
○ Bungs for running rust or blisters	NVIC 7-95 4.K.1	
○ Caulking	NVIC 7-95 4.L	
○ No unauthorized repairs	176.700	
<input type="checkbox"/> Wood hull fasteners		02199
○ Location of fasteners to be pulled	176.610(b)	
• <i>The routine periodic inspection of fasteners (pulling of fasteners) on wood boats is outlined in NVIC 7-95 and is:</i>	NVIC 7-95 4.K.1	
• <i>Beginning at the 10th year of age and every 5 years thereafter for salt water service:</i>		
• <i>Beginning at the 20th year of age and every 10 years thereafter for fresh water service:</i>		

Wood Vessel Addendum

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

Drydock & Internal Structure Examination Addendum

Action	Ref	Code
Hull Inspection (HI)		
<input type="checkbox"/> Steel and aluminum hulls <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 Wastage/corrosion is within limits 	176.802 176.610 176.802(a)(1) NVIC 7-68 IV(B) 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	02106 03199 02106
<input type="checkbox"/> Hull markings <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 <ul style="list-style-type: none"> • <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> 	185.602 175.122 SOLAS XI-1/3 SOLAS XI-1/3 185.602 67.123 33-173.27 33-181.23	03199 02120
<input type="checkbox"/> Tailshaft(s), stern bearing(s) and propeller(s) <ul style="list-style-type: none"> ○ Determine if tailshaft(s) needs to be drawn ○ Bearing clearance & inboard seal assembly ○ Visually examine entire shaft (if in question) ○ 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"> • <i>MSM.71 Sec B Ch. 3-34: With wood or rubber bearings, "feeler" gauges of known thickness can be inserted between the shaft and the bearing to</i> 	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
<p style="color: blue;">determine the amount of wear-down. Wear-down 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-down. Maximum wear-down readings for wood bearings are found in 46 CFR 61.20-23(a). Rubber bearings must be renewed when any water groove is found to be half its original depth.</p> <ul style="list-style-type: none"> ○ Condition of propeller <ul style="list-style-type: none"> • NDT if in question 	176.610(a)	03199
<ul style="list-style-type: none"> □ Rudder installation <ul style="list-style-type: none"> ○ Type of assembly installed <ul style="list-style-type: none"> 176.814 MSM.71/ B.3.E.2 ○ Examine rudder assembly for deterioration and defects <ul style="list-style-type: none"> 176.610(a) ○ Rudder bearing clearance(s) are within limits <ul style="list-style-type: none"> Manufacturer's Inst ○ Condition of pintle(s), gudgeon(s), bushing(s), pintle nut(s) and locking device(s) <ul style="list-style-type: none"> MSM.71 /B.3.E.2 ○ Condition of pintle by nondestructive test (NDT) (if in question) <ul style="list-style-type: none"> MSM.71/ B.3.E.2 		02105
<ul style="list-style-type: none"> □ Hull appendages <ul style="list-style-type: none"> ○ Condition and structural integrity of bilge keel ○ Condition of keel coolers <ul style="list-style-type: none"> 182.422 ○ Condition of transducers and other similar appendages ○ Bow/stern thrusters ○ Shaft & rudder packings 	176.610(a)	03199
<ul style="list-style-type: none"> □ Anchor chain(s) <ul style="list-style-type: none"> ○ Length of chain, satisfactory condition <ul style="list-style-type: none"> • Such as wastage ○ Chain locker for satisfactory condition 	184.300	09228
<ul style="list-style-type: none"> □ Sea valve(s) <ul style="list-style-type: none"> ○ Quantity and type <ul style="list-style-type: none"> • Valves within 6" of waterline on a through hull penetration ○ All sea valves are properly identified and are opened for examination <ul style="list-style-type: none"> 176.610 ○ External and internal components <ul style="list-style-type: none"> • Verify correct operation of valve components • Verify correct seating (blue or pressure test if needed) 	176.610 179.350(c)&(d)	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"> 176.610 	MSM.71/B.3.J	03199
	IMO Res MEPC.195(61)4	14701

Drydock & Internal Structure Examination Addendum

Action	Ref	Code
○ COI has Anti-Fouling endorsement or IAFS Certificates (>400 ITC)	AFS Art.3 AFS Annex 4 (1)	01131
○ IAFS Declaration or SOVC (<400 ITC & >24m)	MSM.71/B.3.J AFS Annex 4 (5)	01131
○ Identification of applied Anti-Fouling System	MEPC.195(61) 4.2	14701 14703
○ Vessel particulars on Record of Anti-Fouling Systems	AFS Annex 4 App. 1 MEPC.195(61) 4.1	14702
○ Anti-Fouling Systems details provided	MSM.71/B.3.J MEPC.195(61) 4.2 & 5	14701
○ No change in Anti-Fouling System has occurred since issuance of IAFS Certificates	MEPC.195(61) 5.2 MSM.71/B.3.J	14702
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□ Inspect fiberglass external hull		02106
○ Condition	176.610(a) NVIC 8-87 Ch5	
○ Stress areas	176.610(a) NVIC 8-87 Ch5	
○ Area in way of through hull fittings	176.610(a)-(b) NVIC 8-87 Ch.5.E	
○ Damage/unfairness/delamination	176.610(a)-(b) NVIC 8-87 Ch5.C	
○ No unauthorized repairs	176.700 NVIC 8-87 Ch.6	
<hr/>		
□ Fiberglass internal hull		02199
○ Condition	176.610(a) NVIC 8-87 Ch5	
○ Stress areas	176.610(a) NVIC 8-87 Ch5	
○ Area in way of through hull fittings	176.610(a)-(b) NVIC 8-87 Ch5.E	
○ Damage/unfairness/ delamination	176.610(a)-(b) NVIC 8-87 Ch5.C	
○ No unauthorized repairs	176.700 NVIC 8-87 Ch6	
<hr/>		
□ Fiberglass repair(s)	176.610	02199
○ Extent of damage, defect(s) and/or delamination	NVIC 8-87 Ch6	
○ Repair proposal	176.700 NVIC 8-87 Ch6	
○ Repair materials	176.700 NVIC 8-87 Ch4	
○ Inspect repair(s)	176.610 NVIC 8-87 Ch4	

Drydock & Internal Structure Examination Addendum

Action	Ref	Code
Internal Structural Examination (IS)		
<input type="checkbox"/> Confined spaces are safe for entry	29-1915.12(f) CIM 5100.47A/6.G.9.c NFPA 306/4.3	99101
<input type="checkbox"/> Marine Chemist certificate		
<input type="checkbox"/> Competent person has maintained Marine Chemist Certificate, verify competent person credentials, testing methods and logs	29-1915.15 CIM 5100.47A/ 6.G.9.c(3) NFPA 306/4.6.2	
<input type="checkbox"/> No changes to vessel's condition	29-1915.15(b)	
<input type="checkbox"/> Forced ventilation is provided (IAW Marine Chemist Cert.)	29-1915.13(b)(3)	
<input type="checkbox"/> Condition of space access point	29-1915.76	
<input type="checkbox"/> Internal structures	176.610(b) 176.802 MSM.71/B.3.B	02199
<input type="checkbox"/> Frames		
<input type="checkbox"/> Floors		
<input type="checkbox"/> Shelves, brackets, clamps		
<input type="checkbox"/> Bulkheads		
<input type="checkbox"/> Tank tops		
<input type="checkbox"/> Coamings, closures & other fittings		
<input type="checkbox"/> Wastage is within acceptable limits	NVIC 7-68 III(C)	
<input type="checkbox"/> Watertight integrity	176.802 179.360	
<input type="checkbox"/> Hull openings and closures		03199
<input type="checkbox"/> Deck openings and closures		03104 03110
<input type="checkbox"/> Watertight doors	MSM IV/6.1.5	03107
<input type="checkbox"/> Watertight subdivisions/bulkheads	MSM.71/B.1.E.5 179.350 171.114 171.119	03199
<input type="checkbox"/> Stability	171 Sbpt H 178 Sbpt D	
<input type="checkbox"/> Drainage		03112
<input type="checkbox"/> Major changes/modifications		01326
<input type="checkbox"/> Solid ballast		01326
<input type="checkbox"/> Self-bailers and cockpit freeing ports	178.510	03112
<input type="checkbox"/> <i>Check valves</i>	178.420	03113
<input type="checkbox"/> <i>Required area</i>		

Structural/Watertight Integrity (SW)

<input type="checkbox"/> Hatches and Class-1 watertight doors	171.124	03104
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Drydock & Internal Structure Examination Addendum

Action	Ref	Code
	179.330	03107
○ Condition of knife edges		
○ Condition of gasket material	MSM.71/ B.1.E.5	03104 03107
○ Verify watertight integrity between gasket and knife edge		
○ Condition and operation of hinges and dogging devices	170.270 MSM.71/ B.1.E.5	
○ Operation of Class-1 door's quick- acting closing device	179.330	
○ Operation of indicator lights at the control station	179.330(b)	
○ Markings	185.610	
<input type="checkbox"/> Inspect Class 2 & 3 watertight doors	171.124 179.330(c) 170.270(c)(2)	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 & /6.3	
○ Operation of alarms	ASTM F1197 /11.5	
○ Closing times are in compliance	ASTM F1197 /11.2 & /11.4	
○ Markings	185.610	
○ Watertight integrity	ASTM F1196/ 11.1, S4, S1	
○ Operation of doors under reserve power	170.270(c)(3) ASTM F1197 /S3	
<input type="checkbox"/> Watertight bulkhead penetrations		03199
○ Locations – <i>as high up and inboard as possible, number of penetrations should be minimized.</i>	179.320(c) 171.114 171.119	
○ Watertight	182.720(d)(1) (ii)(C) MSM.71/ B.1.E.5	
○ Free of sluice valves	179.320(d)	
<input type="checkbox"/> Hull structure	177.300 MSM.71/ B.1.E.1 177.10-1	02199
○ Damage, wastage and fractures		02106
○ No unauthorized repairs	176.700	02199

Drydock & Internal Structure Examination Addendum

Action	Ref	Code
	2.15(a)(2)	
Welding Repair Inspection (WR)		
<input type="checkbox"/> Steel and aluminum structural repair proposals	177.10-1 176.700(d) 177.300 NVIC 7-68 IV ABS 2-4-1/5.19	02199
<input type="radio"/> Extent of damage and/or wastage/corrosion		02199
<input type="radio"/> Repair proposal	176.700(d) NVIC 7-68 IV	
<input type="radio"/> Repair materials	176.700(d) NVIC 7-68 IV	
<input type="radio"/> Welding procedures	176.700(d)	
<input type="radio"/> Alternative repair methods for equivalency	177.340 MSM.70/A.5.A	
<input type="radio"/> Welder's proficiency & qualifications	176.700(d)	
<input type="checkbox"/> Aluminum fit-up	177.10-1 177.300(b)	02199
<input type="radio"/> Material & fitted with approved joint detail	NVICs 7-68 & 11-80 ABS 30.1	
<input type="radio"/> Materials (base, filler, gas)	ABS 30.1	
<input type="radio"/> Welding processes	ABS 30.1.3	
<input type="checkbox"/> Steel fit-up	177.10-1 177.300(b)	02199
<input type="radio"/> Material & fitted with approved joint detail	NVIC 7-68 IV ABS 2-4-1/3	
<input type="radio"/> Materials (base, filler, gas)	176.700(b) ABS 2-1-1/1.1	
<input type="radio"/> Welding processes	176.700(b)	
<input type="checkbox"/> Defects in welds	176.700(b) 177.300(b)	02199
<input type="radio"/> Examine welds for uniformity and reinforcement	ABS 2-4-1/5.15.1 ABS 30.5.8 (Aluminum)	
<input type="radio"/> Examine welds for porosity, overlap, undercut, cracks, slugging and slag inclusion	NVIC 7-68 V(H) ABS 2-4-1/5.15.1 ABS 30.5.8 (Aluminum)	
<input type="radio"/> Examine adjacent base metal for injurious arc strikes, spatter and sharp or deep undercut	NVIC 7-68 V(H) ABS 2-4-1/5.15.1 ABS 30.5.10 (Aluminum)	
<input type="checkbox"/> Back gouge (if used)	176.700(b) 177.300(b)	02199

Drydock & Internal Structure Examination Addendum

Action	Ref	Code
<ul style="list-style-type: none"> ○ Examine welds for defects (discontinuity) 	NVIC 7-68 V(G)(2) ABS 2-4-1/5.9	
<ul style="list-style-type: none"> ○ Proper weld sequencing 	NVIC 7-68 V(F) ABS 2-4-1/5.3 ABS 30.5.5 (Aluminum)	
<ul style="list-style-type: none"> ○ Joints are cleaned between interpasses 	NVIC 7-68 V(E) ABS 2-4-1/3.5 ABS 30.5.3 (Aluminum)	

Nondestructive Testing (NT)

<input type="checkbox"/> Verify nondestructive testing (NDT) method	176.700(d) NVIC 7-68 9(V)(A) ABS 2-4-1/5.17 ABS NDT Guide 4/1	02199
<ul style="list-style-type: none"> ○ Individual's knowledge of method and/or technician's qualification and certification ○ Calibration / preparation ○ Technician examine/interpret readings ○ Evaluate test results or review technician's report <ul style="list-style-type: none"> • <i>Magnetic Particle</i> • <i>Radiography (x rays)</i> • <i>Ultrasonic</i> • <i>Hydrostatic</i> • <i>Pneumatic</i> 	ABS NDT Guide 5/5 ABS NDT Guide 2/9 ABS NDT Guide 3/11 ABS 3-7-1/5.5 ABS 3-7-1/5.7	

<p>Subchapter "T" Applicability Chart (46 CFR 175-185) Less than 100 GT Less than 150 PAX Overnight 49 PAX</p>	Fire pump	Fire axe	Steering indicator	FCC radar	GPS	Nav lights that meet UL 1104	Public address system	Station bill	Hull marks	Load Line	Collision Bulkhead (5-15 LBP)	Subdivision	Bilge System	Bilge Alarm	Substitute electric submersible (for bilge)	16mm Garden Hose (for firefighting)	Commercial UL fire hose	Rescue boat	Lifeguard lights	EPRB	Hinged QAWTD	Ring buoy 1 - 20"	Ring buoy 1 - 24"	Ring buoy 3 - 24"	Alternative, vent latter to scuttle for escape	ABYC compliance
181.300	X					X					X	X					X									
181.600																										
182.600																										
184.404				X																						
184.410					X																					
183.420						X					X															
184.610					X						X															
184.610					X						X															
185.514																										
185.602																										
175.122										X																
179.210											X															
179.212											X															
182.510												X														
182.530												X														
182.520(e)																X										
181.320(c)																X										
181.320(b)																X										
180.210																										
180.210																										
180.75																				X						
180.64																					X					
179.330																						X				
180.70																							X			
180.70																							X			
177.500(j)																								X		
182.130																									X	
182.500																										X

TABLE 26—CROSSWALK OF FIRST-AID KIT CONTENT REQUIREMENTS

Item	Number of items required			ISO 18813 requirements
	Lifeboats and rescue boat requirements under § 160.041-4	Liferaft and IBA requirements under § 160.054-4		
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