United States Coast Guard

T-BOAT INSPECTION BOOK
Inspector Reference Guide

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

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Clear Form

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

References
-Unless specified otherwise, in an effort to save space, a CFR cite will be from 46 CFR. For example, 46 CFR 175.100 will be listed as 175.100. If the cite is from another Title it will be listed as 33-164.30 for 33 CFR 164.30.
-This Inspector Reference cites SOLAS regulations from the 2020Consolidated 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.

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

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

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

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

Example classification code: **09112**

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

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

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

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

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

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

Example: CG001

(This is the classification code for Certificates of Inspection)

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

Example: 02114/5/6

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

Table of Contents

Action	Ref	Code
☐ Accommodations (Crew & Passenger)	177.800	09198
Number of berths	177.25	09114
Spaces are of appropriate size	177.710	
Accessibility to escape routes	177.810	
☐ Overnight accommodation spaces are fitted with an independent modular smoke detection and alarm unit, properly installed	183.550 181.405(c)	07199
☐ Proper operation of detectors/alarm units	181.450	07199
☐ Li-Ion Battery Storage	CVC PL 20-03	09298
Stored in dry & cool location away from combustible materials	176.830	
☐ Li-Ion Battery Charging	176.806	09209
Located in occupied/non-hazardous space	177.405	07199
Station on single outlet use / no daisy chains	177.405	07199
Inspect for signs of battery damage		
☐ Human Factors		
What are the crew members' responsibilities for the safe operation of the vessel?	176.800	99101
What are your procedures if you receive an alarm?	185.420(a)	99101
For Overnight operations, who conducts rounds? How often?	185.410	99101
What are your procedures for inclement weather?	185.530	99101

Section 2: Dockside Assessment (DA)

Action	Ref	Code
☐ Initial vessel visual examination.		
○ Presence of anchor(s) (*when visible*)	184.300	09228
○ Draught (draft) marks & load marks *(>65' or SOLAS*)	185.602 175.122	03199
○ Load Line & Deckline (*>79' or SOLAS*)	SOLAS XI-1/3	
○ IMO Hull marking *(SOLAS)*	SOLAS XI-1/3	
○ Machinery space marking *(SOLAS)*	185.602	
○ Name and hailing port/State number • *Name clearly marked on port and stbd bow and stern; hailing port on stern; NLT 4" Latin alphabet, Arabic /Roman #'s* • *State documented vessels are to be marked as required by the state which is regulated under 33 CFR 173.27.* • *State numbers are required on both sides of the bow.*	67.123	02120 01310
○ Signs of pollution/illegal discharge on hull	33-173.27 33-181.23	02106 03113
○ Hull condition	33-151.10	
○ Visible shell damage, bulwarks, rails and guards	33-155.330 33-155.350 176.802	09223 09228
○ Examine means of embarkation (gangway/ladders)	29-1915.74(a)(6) 184.300	
○ Condition of mooring lines		

Section 3: Certificates & Documents (CD)

Action	Ref	Code
♦ ☐ Certificate of Inspection (COI)		CG001
○ Presence of original	176.302	
○ Routes & Conditions, and amendments	176.120	
○ Manning	MSM III/B.2.C 15.501	
○ Certificate is endorsed	176.500(b)(1)(ii) 176.802(a)(3)	
○ SPV Decal is posted	176.310	
♦ ☐ Vessel's stability letter	170.120	01326
○ Presence of stability documents	178.210 178.220	01326
○ Required contents	176.306 178.230	
•♦ ☐ Merchant Mariner Credentials (MMCs)		01201
○ MMCs meet COI manning requirements • *Route* • *Position* • *Tonnage*	15.515 10.205(g) 15.805(a)(4) 15.810(b)(1)	
○ Presence of original MMCs	185.402	
○ Validity	10.205(a)	
○ Senior Deckhand (*if applicable*)	10.205(b) MSM III B.2.C NVIC 1-91	
☐ 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*)	185.212 185.210 4.06-15	
○ Training of designated testing crewmember (*when applicable*)	4.06-20(a)(3) 4.06-20(b)(2)	
○ Random chemical testing program for dangerous drugs	16.230	
○ Pre-employment testing program for dangerous drugs	16.210	
○ Means of post-accident testing chemical testing for dangerous drugs	185.210 185.212 4.06-15	
♦ ☐ Maintenance and service records		
○ Firefighting service reports	176.810	07199
○ Liferaft servicing reports	185.730	11199
☐ Vessel General Permit (VGP) (*>79'*)		99103
○ Notice of Intent (NOI) has been submitted	VGP 1.5.1.1 & 10	
○ Compliance with ballast water record keeping requirements	VGP Table 1 CG-543 Policy Ltr 11-01 VGP 4.3	

Section 3: Certificates & Documents (CD)

Action	Ref	Code
○ Noncompliance & reportable quantity reports have been submitted	CG-543 Policy Ltr 11-01 VGP 4.4.1 VGP 4.4.2 CG-543 PL 11-01	99103
♦ ☐ Muster lists and emergency instructions		04108
○ Muster lists and emergency instructions are available	185.510	
• *Fire, heavy weather, man overboard*		
○ Station bill (*>65' & ≥ 4 crew*)	185.512	
○ Posted at operating station & in a conspicuous location in each crew accommodation space.	185.510 185.514 185.510(a) 185.514	04108
♦ ☐ Certificate of Documentation (COD) (*>5 NT*) or Commercial State Registration	67.313 67.321	CG003
○ Presence of original	67.17	
○ Endorsement(s) for current service(s)	67.19	
○ Validity	67.161 67.163	
☐ Federal Communications Commission Marine Radio Operator Permit	47-80.159(e)	01104
☐ Federal Communications Commission Bridge-to-Bridge Certificate *(>65')*		01104
○ Presence	47-80.1001	
○ Validity	47-80.1005	
○ Contents	47-80.1005	
• *The VHF radiotelephone must have operating capability on Channels 13 (156.650 MHz) and 22A (157.100 MHz).*		
☐ Federal Communications Commission Station License		05103
○ Presence	47-80.13	
○ Other classes of equipment are authorized for operation	47-80.17	
○ Contents	47-80.99	
○ Validity	47-80.25	
☐ Federal Communications Commission Safety Radiotelephony Certificate	47-80.59 (a)(2)	05103
○ Presence	47-80.901	
○ Validity	47-80.933	
○ Contents	47-80.59	

Section 4: Logs and Manuals (LM)

Action	Ref	Code
•♦ ☐ Vessel's log		01305
♦ ○ EPIRB tests (*high seas, >3nm*)	185.728	11199
• *Monthly*	185.524	CG004
♦ ○ Drills	185.520	11199
• *Date/Description*	185.702(d)	
• *Abandon ship*		
• *Man Overboard*		
• *Fire*		
• *Rescue Boat*		
• *Security (SOLAS)*		
♦ ○ Maintenance of survival craft, rescue boats, and launching appliances		
• *Instructions onboard (>65')*		
• *Falls End-End (30 months)/ Replace (5 years)*		
☐ Waste/Garbage Management Plan (*Route >3nm, Domestic*)	184.702	14503
○ Management Plan (*>40'*)	33-151.51	14502
○ Placard (*>26'*)	33-151.57	01320
	33-151.59	
☐ Crew and passenger list maintained (Ocean/Coastwise [O\C] and overnight or disembark or embark at different ports).	185.502	10127
☐ Voyage plan prepared (O/C or overnight).	185.503	10127
☐ Passenger count.	185.504	10127
•♦ ☐ Safety orientation.	185.506	10127

Section 5: Bridge/Navigation (BN)

Action	Ref	Code
♦☐ Operations of internal communication and control systems		
○ Means of communication from operating station to propulsion machinery space (*Pilothouse, Aux Steering*)	184.602	04116
○ Operation of Public Address System • *Fixed* • *<65' Bullhorn* • *<65' & <49 pax N/A if Operating Station is suitable*	184.610	04101
○ Two independent means of controlling each propulsion engine • *Except multiple engine vessels w/independent control systems*	184.620	13199
☐ Radar(s) *(>49 pax, O/LC/GL*) ○ Safety precautions are followed ○ Verify operation	Operation Manual 184.404 184.115(a)	10103
☐ Magnetic compass (*All, except Rivers, Non-self-propelled, short-LBS*) ○ Illumination (*Nighttime Ops*) • *(New T + OCMI discretion)* ○ Mounting location ○ Operation	184.402(c) 184.402(a) 184.115(a)	10105
☐ Electronic position-fixing device (satellite navigation (GPS) receiver) (*Oceans route*) • *(New T + OCMI discretion)*	184.410 184.115(a) Operation Manual	10115
☐ Radio telephone equipment (*>20m, power-driven*) ○ Installation(s) ○ Equipment for operational area(s) ○ Emergency broadcast placard ○ Functional test • *(c) If the cognizant OCMI determines that there is no suitable mounting surface aboard the vessel, the emergency instructions need not be posted but must be carried aboard the vessel and be available to the crew for familiarization.* • *46 CFR 185.512 - Recommended emergency instructions format – An emergency instruction placard containing the following information will satisfy the requirements of 185.510.* *(a) Emergency instructions – (1) rough weather at sea, crossing hazardous bars, or flooding. (2) Man overboard. (3) Fire*	184.502 47-80.1003 47-80.1015 184.506 184.510 47-80.931	05103

Section 5: Bridge/Navigation (BN)

Action	Ref	Code

IF vessel travels	THEN it MUST carry:
>1,000 ft from shore but <20 NM	1 VHF
20 NM to 100 NM	1 VHF and 1 MF
100 NM to 200 NM	1 VHF, 1 MF, 1 SSB or INMARSAT radio, and 1 NAVTEX receiver.
> 200 NM	1 VHF, 1 MF, 1 SSB or INMARSAT radio, and 1 NAVTEX receiver, 1 distress frequency receiver, and 1 automatic radiotelephone alarm signal generator
Vessels ≥ 65', operating in VTS waters, are required at least two VHF radios. One radio must be tuned to the VTS frequency under 33 CFR 161.12 as per 33 CFR 26.03(f)	

Action	Ref	Code
☐ Navigation and signaling lights, and dayshapes ○ Operation of navigation and anchor lights ○ Dayshapes • *Certificate of Alternate Compliance*	33-83.20(b) COLREG Rule 20 183.420 33-83.20(d) COLREG Rule 20 33-84.11 33-81.9	10109
☐ Sound signaling devices ○ Presence of signaling device ○ Operation of whistle and bell (*>12m*) • *NLT 12" for a vsl ≥ 65'* • *NLT 8" for a vsl 40' – 65'* • *< 36' (12 m) not required to have a bell*	33-83.33 COLREG Rule 33	10109
☐ Navigational publications and nautical charts (*as appropriate for route*) ○ Charts ○ Tide Tables ○ River Current publication or Current tables ○ Coast Guard Light List ○ U.S. Coast Pilot ○ COLREGs ○ Inland Navigation Rules • *Copies or excerpts are allowed.*	184.420 COLREG A/1 33-88.05	 10111 10112 10116
☐ Steering system controls at operating station ○ Operation and control ○ Operation of rudder angle indicator (*Power-driven main steering*) ○ Steering gear transfer instructions are posted *(>65', Aux Steering)*	 182.610(a)-(c) 176.814 182.610(e)(2) 182.610(g)(2) 176.25-35	13199

Section 5: Bridge/Navigation (BN)

Action		Ref	Code
	○ Visual means to indicate operation of power unit(s)(*>65'*)	182.30-1 182.30-5 182.610(g)(1)	13199
♦ □	Alarms and gauges at operating station		08199
	○ Bilge high level alarms (*>26'*)	182.530(a)-(b)	
	○ Automatic bilge pump indicator	182.530(c)	
	○ Flammable vapor detection system (*Gasoline*)	182.480(a) 182.480(d)	
	○ Propulsion engine gauges	182.410(b)	
	• *RPM, JW discharge temp, LO pressure (RPM not required for Old T)*	182.425(b)(5)	
	○ Audible or visual alarm for exhaust cooling system (*Wet Exhaust*)		
♦ □	Distress signals		11116
	○ USCG type approval	180.68	
	○ Quantity in accordance with vessel's route	160.121 160.037 160.036	
	• ***O/C/LC*** *- 6 hand red flare distress signals & 6 hand orange smoke signals*		
	• ***LBS/R*** *- 3 hand red flare distress signals & 3 hand orange smoke signals*	180.68	
	• *may substitute red hand flares for orange smoke*		
	• *vsls on short runs limited to 30 mins do not need to carry distress signals*		
	○ Expiration date		
	○ Stowed in brightly colored, portable watertight container or pyrotechnic locker	185.726(c) 180.68(e)	
	○ Marked "Distress Signals"	185.614	

Section 6: General Health & Safety (GH)

Action	Ref	Code
☐ Upper decks marked for maximum number of PAX as per stability letter	185.602(g)	01310
•♦☐ Accommodations (Crew & Passenger)		09198
○ Location	177.800	
○ Number of berths	177.25 177.30-7	09114
○ Spaces are of appropriate size	177.710 177.810	
○ Accessibility to escape routes	177.800 177.810 177.500	09117
○ Ventilation	177.15-1	
○ Sanitary condition	177.810(c)	07120
•♦○ General alarm is adequate • All vsls with overnight accommodations; public address system may be used.	177.600(c) 176.818	09103 09114
•♦○ Overnight accommodation spaces are fitted with an independent modular smoke detection and alarm unit, properly installed	183.550 181.405(c)	08101 07199
○ Proper operation of detectors/alarm units	181.450	
☐ Structural Fire Protection	177.405	07101/
○ Noncombustible trim	177.410	03/05
○ Fire-resistant furnishings • *Must comply with 116.423*	177.10-1 177.10-5	09116
•♦☐ Means of escape from accommodation, machinery and other spaces		07120
○ Means of escape (2) – widely separated (*adequate size ≥32"*), operable from either side and open towards expected escape direction • *Exemptions for 2 escapes in 177.500(o)*	177.500 177.15-1	
○ Routes are accessible		
•♦○ Emergency lighting	177.500	04103
•♦○ Markings • "EMERGENCY EXIT, KEEP CLEAR" 2" Letters	183.432 184.30-5 185.606	
☐ Mess deck and galley spaces		
○ Sanitary conditions	176.818	09106
○ Cooking fuel restrictions – *no gasoline, no open flames*	MSM A.6.C 184.202	09124
○ Cooking equipment requirements – *Grab rails, locking, fitted for use in heavy seas*	184.220 ABYC A-3	09124
○ LPG and LNG cooking systems • Remote shutoff valve (if system in enclosed space)	NFPA 302 184.240	09124

Section 6: General Health & Safety (GH)

Action	Ref	Code
○ Condition of vents and ducts • Ducts above frying vats or grills constructed of >11-gauge steel	177.600(d)	09201
○ Structural fire protection surrounding cooking and heating appliances	177.410(c)(1) 177.10-5	07101/3/5
○ Grease extraction hood • *Meet UL 710 & be equipped with a dry or wet chemical fire extinguishing system*	181.425	07109
☐ First aid kit ○ Marked "First Aid Kit" ○ Watertight container ○ Easily visible & readily available to crew ○ USCG Approved	184.710 160.041	09112
☐ Portable lights ○ At least 2 onboard ○ Located at operating station & at access to propulsion machinery space	183.430	04103
☐ No unsafe conditions or practices exist ○ Slips, trips, falls ○ Sharp edges ○ Swinging loads/gear adrift	176.830	09298
☐ Paint locker(s) • *Enclosed space used to store paint or other flammables* ○ Fire protection equipment ○ Space construction material • Steel or equivalent ○ Electrical installations • *Class 1 Div 1 space must be explosion proof or intrinsically safe* ○ Means to secure ventilation • *Power ventilation must have means of being shut down from pilot house*	181.20-1 181.400(a)(7) 177.405(d) 177.10-5(c) 183.530(b) 183.530(c) 111.105 177.600(b)	 07109 07101 02108 09201

Section 7: Lifesaving Equipment (LS)

Action	Ref	Code
♦☐ Emergency Position Indicating Radio Beacon (EPIRB) (*High seas or ≥ 3NM on Great Lakes*)	180.64	05111
○ Registration ○ Marked with vessel name	47-80.1061(e)-(f) 185.604(c)	
○ Stowage • *To automatically float free and activate*	180.64	
○ Hydro-static release expiration date	185.740	
○ Battery date	185.728(b)	
♦☐ Life jackets		
○ USCG type approval	180.71(c) 180.25(a)	11130
○ Quantity • *Adult lifejackets for each person on board; reqs for child size or extended sizes vary*	180.71(a)-(b)	11118
○ Stowage • *Readily accessible & distributed throughout accommodation spaces* • *Containers not capable of being locked & when practical aloe life jackets to float free* • *Overhead stowage allows quick release* • *If stowed >7' above deck, release must be operable from the deck (not applicable to Old T vessels)* • *Container clearly marked with "Life preservers" & "Child" or "Adult" and quantity* • *Child-sized life jackets stowed separately*	180.78 185.604(f)	
○ Markings • *vessel name* • *retro-reflective material*	185.604(b)&(h)	
○ Lights • *O/C/GL – must have USCG approved light (not required on ferries & vsls that do not operate > 20 NM from harbor of safe refuge)*	180.75	
○ Location and information for donning instructions	185.516 176.808(d)	
○ Condition and suitability • *Those found to not meet condition & suitability should be destroyed*	160.002 160.005 160.055	
○ Inflatable life jackets must be serviced annually by approved facility		
○ Each life jacket fitted with a whistle (*SOLAS*)		
☐ Personal Floatation Devices *(work vests)* carried in addition to lifejackets *(if present)*		11118
○ USCG approval	180.72 160.064	

Section 7: Lifesaving Equipment (LS)

Action	Ref	Code
○ Serviceable condition	160.053	11117
○ Inflatable PFDs serviced by an approved facility annually	160.077	
○ Stowed separately and in a manner so as to not be confused with pax lifejackets		
♦□ Ring Life Buoys		11117
○ USCG type approval	180.70(b)(1) 160.050	
○ Quantity & size	180.70(a) 180.70(b)	
• *≤ 26' → 1x 20"*		
• *26'< X ≤ 65' → 1x 24"*	180.70(a)	
• *>65' → 3x 24"*		
○ Stowage	180.70(b)	
• *rapidly cast loose*		
• *not permanently secured*		
○ Lifeline	180.70(c)	
• *At least 1 fitted with lifeline, if > 1 at least one not fitted with lifeline)*		
• *Buoyant*		
• *≥ 60'*		
• *Non-kinking*		
• Dark color if synthetic, or resistant *to UV light*		
○ Waterlight	180.70(d) 161.010	
• *Not required when limited to daytime operations*		
• *≥1 floating waterlight*		
• *3ft-6ft lanyard secured around the body of LB*		
• *If only one, attached to lanyard w/ corrosion resistant clip*		
• *Verify batteries*	185.604	
○ Markings	180.70(b) 160.050-3(b) & .050-6 180.70 160.050	
• *O/C – orange*		
• *LBS/R can be white*		
• *Vessel name in block capital letters*		
• *Retro-reflective tape*		
○ Condition and suitability	176.808(d)	
♦□ Inflatable liferaft & inflatable buoyant apparatus installations		11108/ 27
○ USCG type approval		
○ Quantity *(route dependent, always verify with Table180.200(c))*	180.200(a)(1) & (3) 180.200(c) Table	11130 11108/ 27
○ Stowage		
• *Secured to vsl by a painter with a float-free link permanently attached to the vsl*		
• *Floats free and inflates automatically*		

Action	Ref	Code
• *Readily accessible to crew for quick launch*	180.130	11108/27
• *Fully equipped as required IAW 180.175 (b)&(c)*	180.130	
• *Sheltered from breaking seas and fire damage*	160.151-33	
• *Stowed to prevent shifting*		
○ Markings		
• *Vessel Name*		11108/27
• *Port of registry*		
○ Annual service dates	185.730(a)	
• *Every 12 months*		11135
• *Immediately if container is damaged or seals or straps are broken*		
○ Emergency instructions are posted	185.510	
○ CG approved embarkation ladder *(required when embarkation station is >10' from lightest operating waterline)*	185.518	11131 11130
○ Servicing/expiration of hydrostatic release	180.150(b)	
○ Hydrostatic release installed correctly	185.740	11130
♦☐ Lifefloat & Buoyant Apparatus installations (when present)		11108/27
○ USCG type approval	180.200(a)(2)	11130
○ Quantity *(route dependent)*	180.200(c) Table	11108/27
○ Stowage		
• *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*	180.137	11108/27
• *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*		
• *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*		
• *If a single painter is used for ≥ 2 life floats/buoyant apparatus, ensure that:*		
▪ *The total weight of the devices does not exceed 400lb*		
▪ *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*		

Section 7: Lifesaving Equipment (LS)

Action	Ref	Code
each device can be launched independently of the others ▪ *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* ▪ *If stowed in tiers, ensure tiers are NOT MORE than 4ft high and that spacers are used between devices (spacer material is not specified)*		
○ Markings • *Vessel name* • *Capacity* • *Retro-reflective tape*	185.604(a) 160.010-8	11108/27
○ Embarkation ladder *(required when embarkation station is > 10ft from lightest operating waterline)*	180.150	11130
○ Required equipment • *Lifeline and pendants (as furnished by manufacturer, replacements must meet 160.10)* • *Paddle (≥ 4ft long lashed to LF/BA & buoyant)* • *Painter (≥ 100ft, not < 3x's distance between stowed deck & waterline; breaking strength of ≥1,500lb unless capacity is ≥ 50 ppl, then ≥ 3,000lb)* • *Light (Waterlight, attached around body of LF/BA with a UV resistant 3/8in lanyard, ≥ 18ft)*	180.175(d),(e) &(f)	11110
○ Emergency instructions are posted	185.512(a)(1)(ix)	11131
♦☐ Rescue boat	180.10-35	
○ > 65ft must carry at least one rescue boat unless OCMI determines: • *Sufficiently maneuverable, arranged & equipped to allow the crew to recover a helpless person from the water* • *Recovery of a helpless person can be observed from the operating station; and* • *Not regularly engaged in operations that restrict maneuverability*	180.210(a)	11130
○ ≤ 65ft is NOT required to carry a rescue boat unless: • *Carries PAX on an open or partially enclosed deck; and* • *The OCMI determines the vsl is designed, arranged, or involved in operations so that*	180.210(b)	

Section 7: Lifesaving Equipment (LS)

Action	Ref	Code
the vsl itself cannot serve as an adequate rescue craft		
○ USCG type approval *(protected waters 160.056, exposed, partially protected waters 160.156)*	180.210(d) 160.056 160.156	11130
○ Stowage • *Deck where stowed or boarded must be kept clear of obstructions that would interfere with boarding and launching craft* • *Stowed to prevent shifting* • *Sheltered, as far as practicable, from breaking seas and fire damage* • *Ready for immediate use by crew*	185.700 180.130	11104
○ Markings • *Vessel name* (each side of bow) • *Capacity* (each side of bow) • *Retro-reflective tape* • *Information plate*	185.604(i)	11104
○ Required equipment • *Pair of oars & painter ≥ 3/8" & ≥ 30'* • *SOLAS requirements for rescue boats*	160.056-3(b)	11104
○ Condition • *Small, lightweight boat with built-in buoyancy* • *Capable of being readily launched* • *Easily maneuvered* • *Of adequate proportion to take an unconscious person onboard without capsizing* • *Good working order, ready for immediate use*	185.700 180.210(c) 180.10-35	11104
○ Adequate means are provided for transferring a victim from a rescue boat or platform to the deck of the vsl *(during MOB drill)*	176.808(g)	
○ Embarkation ladder *(required when embarkation station is >10' from lightest operating waterline)* ***Note**: 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.*	180.150(b)	11130

Section 7: Lifesaving Equipment (LS)

Action	Ref	Code
♦☐ Launching appliance(s) *(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)*		11112/3
○ Materiel condition • *Wastage, cracks, structural damage, blocks, fasteners, etc.*	176.808 180.130(c) 180.150(c)	
○ Falls have been renewed at least every 5 years or when deteriorated	185.704	
○ Falls have been end for ended at least every 30 months *(SOLAS does not allow end for end; falls are replaced every 5 years)*		
○ 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
♦☐ Fire main and pump *(Piping must be non-ferrous metal IAW 182.710) - 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)	181.300(b)-(c) 181.10-1 181.10-5 181.15	07110/3
○ Capable of providing adequate pressure	181.300(a)	
○ Vessel ≤ 65 ft & > 49 pax; or vessels > 65 ft – *50 GPM & pressure of 60 psi at pump*	181.300(c)	
○ Ferry Vessel ≤ 65 ft & ≤ 49 pax • 10 GPM & project a hose stream from the highest hydrant through hose & nozzle a distance of 25'	181.300(c)	
○ Self-priming & power driven • May be connected to bilge system to meet 182.520	181.310(c) 181.300(b)	
○ Fitted with gauge • ≤ 65' & >49 pax; or > 65'	181.300(e)	
○ Location of controls and markings • *Main operating station and local*	181.300(e) 181.310	
○ Operation of fire pump from remote control(s)	182.710	
○ Materiel condition of system • *No excessive leaking*		
☐ Fire stations	181.15-5	07110/3
○ A fire hose with a nozzle must be attached to each fire hydrant at all time		
○ Number of hydrants • *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.*	181.310(a)	
○ Hoses meet required length, size, markings and quantity • *≤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*	181.310(a) 181.320(b)-(c) 181.15-10 CVC PL 18-04	

Section 8: Firefighting System (FF)

Action	Ref	Code
approved under 46 CFR 162.027 or type recognized by Commandant. • *≤65' & ≤49 pax - May have a garden hose ≥0.625" in diameter & ≥25' but ≤50' with suitable construction; Nozzle must be corrosion resistant & be able to switch from stream to spray.* ○ Operation of valves at fire stations • *Each hydrant must have a valve to allow the hose to be removed while F/M is under pressure.*	181.310(c)	07110/3
♦☐ Fire Bucket ○ Verify size – *2.5 Gallons* ○ Verify quantity – *3* ○ Verify lanyard – *Up to OCMI* ○ Verify marking – *"FIRE BUCKET" in contrasting colors*	181.610	07110
♦☐ Portable fire extinguishers ○ Location and stowage • *Clearly visible, readily accessible from space being protected to the satisfaction of the OCMI.* ○ Servicing compliance • *Annual service IAW NFPA 10* ○ Condition of cylinder(s) and hose(s) ○ Presence of required type & quantity	181.500 181.520 181.30 176.810 NFPA 10 Ch 4,7,8 NFPA 10 Ch 7 176.810 181.500(b) CVC PL 18-04	07110
♦☐ Semi-portable firefighting equipment ○ Location and stowage • *Clearly visible, readily accessible from space being protected to the satisfaction of the OCMI.* ○ Servicing compliance • *Annual service IAW NFPA 10* ○ Condition of cylinder(s) and hose(s) ○ Presence of required type & quantity	181.500 181.520 181.30-12 176.810 NFPA 10 Ch 4,7,8 NFPA 10 Ch 7 176.810 181.500(c)&(d) CVC PL 18-04	07110
☐ Fire axe(s) • *> 65' must have at least one fire axe located in or adjacent to the primary operating station*	181.600 181.35-1	07110
♦☐ Fixed fire extinguishing system installed in the required spaces ○ Fitted with an approved fixed gas system or alternative system	181.400(a) 181.20-1 NVIC 3-95	07109

Action	Ref	Code
• *Propulsion machinery space* • *A space containing an internal combustion engine > 50 hp* • *Space containing oil-fired boiler* • *Space containing machinery powered by gasoline or other fuel with a flashpoint of 110°F or lower* • *A paint locker* • *A storeroom containing flammable liquids (including liquors of 80 proof or more, packed in individual containers ≥ 2.5 gal)*		07109
• *Alternative system types & exceptions to the requirements* • *Annual service; Hydrostatic test every 5 years; Testing or renewal of flexible connections/hoses*	181.115(b) 181.400 176.810(a)(5) 147.60 147.65	
○ An enclosed vehicle space		
• *Must be fitted w/ an automatic sprinkler system IAW 76.25*	181.405(d)	
○ 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 CO_2 system(s)	181.115(b)	07109
○ Safety precautions are implemented prior to servicing system	181.410 181.20	
○ Servicing compliance	MSM II/C.2.I.5	
○ Cylinders are weighed annually	176.810(b)(2)	
○ Cylinders are hydrostatically tested	176.810(a)	
• *Fixed CO_2 every 12 years – date stamped on bottle*	NVIC 6-72 CH 1 NVIC 3-95	
○ Testing or renewal of flexible connections/hoses (*46 CFR 147.65*)		
○ 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(a)(10)	
○ Materiel condition of system components	181.20-15	
• *Controls and valves must be located outside the protected space*	181.410(c) 181.410(b)(4)	
• *Must have remote controls in a break glass enclosure*	176.810(a) 181.410(b)(3)	
• *Must have manual controls at the*		

Section 8: Firefighting System (FF)

Action	Ref	Code
storage cylinders.		07109
○ Piping and nozzles are clear	176.810(b)(2)	
○ Operational test of time delays, alarms and shutdowns		
○ Markings and warning signs are posted	185.612(b)	
○ Operating instructions are posted	185.612(a)	
♦☐ Pre-engineered fixed gas fire extinguishing systems *(when applicable under – 46 CFR 181.400(b)(2))*		07109 07124
○ Determine if approved	181.420(a)(1) 181.420(c)	
• *Only one pre-engineered system per protected space.*		
○ 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) Manufacturer's Inst. 176.810(b)(2)	
○ Servicing requirements		
○ Operation of following from the operating station:	181.420(b)(1) 181.420(b)(2) 181.420(b)(3)	
• *Discharge indicating light*		
• *Discharge audible alarm*		
• *Means to reset automatically shut down ventilation systems and engines as required*		
♦☐ Fire and smoke detection systems		07106
○ Appropriate spaces are equipped	181.405 181.05-5 177.410(c)(3)	
• *Propulsion machinery space*		
• *Space containing internal combustion engine > 50hp*		
• *Space containing oil-fired boiler*		
• *Space containing machinery powered by gasoline or other fuel with a flashpoint of 110°F or lower*		
• *Griddles, boilers & deep fat fryers fitted with grease extraction hood (IAW 181.425)*		
• *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*		

Section 8: Firefighting System (FF)

Action	Ref	Code
with a sprinkler system IAW 76.25 – Chapter 25 NFPA 13) • *Partially enclosed vehicle spaces must be fitted with a manual sprinkler system that meets the requirements of 46 CFR 76.*		07106
○ Witness system test		
○ Operation of control unit's visual and audible alarms (if *applicable*)	176.810(a)(7) 181.405(a) 76.27-5 76.27-10 181.405 181.450	
○ Zoning (*if present*)		
○ Location and spacing of detectors		
○ Independent module smoke detection system(s) (*Overnight accommodation spaces*)		
☐ Structural fire protection on fiberglass hull		07101/ 03/05
○ Verify fire retardant resin (*when applicable*) • *Hull, bulkheads, decks, deckhouse, or superstructure of a vsl is partially or completely constructed of a composite material including FRP*	177.410(b) 181.115(b) 177.10-5	
○ Requirements for general purpose resin are met if used	177.410(c)	

Section 9: Machinery & Auxiliary Machinery (MI)

Action	Ref	Code
☐ Steering gear		
○ Electrical, mechanical, and hydraulic connections and linkages of main and auxiliary (emergency) systems	176.814 182.30-1 182.610	02105
•♦ ○ Emergency steering required unless: • *Main steering and controls are provided in duplicate;* • *Multiple screw propulsion with independent pilothouse control for each screw and capable of being steered using pilothouse control;* • *No regular rudder is fitted & steering action is obtained by a change of setting of the propelling unit; or* • *Where a rudder & hand tiller are the main steering gear*	MSM II/C.4.B 182.620	04106
○ Operation of communications between bridge and emergency steering station(s) • *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.* • *Hand held portable radios may be accepted as satisfying this requirement*	184.602(b) 184.115(a) 185.320	
○ Witness operational test of systems, in all modes of operation from emergency steering station(s) • *Rudder stops, function of limit switches and timing requirements for rudder movements.*	182.610(b) 182.610(c) 182.610(f) 182.620	
○ Accuracy of rudder angle indicator *(when fitted with power driven main steering gear)*	182.610(f)(2)	
○ Steering control transfer procedures *(>65' with power driven main steering gear)*	182.610(g)(2)	
○ Witness operational test of auxiliary (emergency) steering arrangement (when fitted with emergency steering) • *15 degrees from one side to 15 degrees to the other in ≤ 60 sec with vsl at ½ max speed or 7 kts*	182.620(a) 182.620(b) 182.620(a)(2)	04106
☐ Fuel oil service system		13199
○ Installation, arrangement & condition of piping, manifolds & filters • *All independent fuel tanks are electrically bonded to a common ground* • *Means to accurately determine amount of fuel in each tank* • *Each tank is fitted with an appropriately*	182.435 182.440 182.455 182.20-22 182.20-25 182.450	

Action		Ref	Code
	sized vent pipe connected to its highest point	182.15-35 182.20-35	13199
	• *Approved piping (material & size) is used in the fuel oil service system*	182.445(a)	
♦	• *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*	182.15-40 182.20-40 182.455(b)(4) 182.15-40(b)(3) 182.20-40(b)(3)	
	• *Suitable metal marine type strainer fitted in the engine compartment. Drip pan fitted w/ flame screen must be installed under gasoline strainers.*		
○	Portable fuel system	182.455(b)(6) 182.15-40(b)(5) 182.20-40(b)(5)	
	• *Only permitted for portable dewatering pumps or outboard motor installations*		
○	Witness tests of remote shutdown(s)	182.458 ABYC H-25	
○	Nonmetallic flexible hoses and fittings	182.455(b)(4) 182.15-40(b)(3) 182.20-40(b)(5) 182.720(e) 182.410(d) 182.40-5 182.15-40(a) 182.20-40(a)	
	• *Double hose clamps, lengths permitted, approved standards*		
□	Main propulsion system(s)		
○	Condition, installation and arrangements of system components	182.200 182.220 182.15-1 182.20-1 182.310 182.420 182.15-10 182.20-10	13101
	• *Steam & electrical propulsion must meet requirements of Subchapter F & Subchapter J*		
	• *Water cooled or meets exceptions for air cooling*		
	• *All engines must have at least 2 means of stopping the engine (the F/O shutoff at the engine will satisfy one means)*	182.200(b)	13103/8
	• *Reliable means of shutting down a propulsion engine at the main pilothouse control station*	184.620 175.10-29	
○	Foundations for structural integrity		
○	Installation of protective covers or guards over exposed gears, belts or other rotating machinery	MSM II/B.1.F 176.402(c)(1)	
○	System hull penetrations for structural integrity		09233
	• *Keel coolers are fitted with a shutoff valve where the cooler penetrates the hull (not*	179.350	

Action	Ref	Code
required for integral coolers)		
• *All piping outside of shutoff valve is at least schedule 80, any flexible hoses used at machinery connections is approved and double hose clamped*	182.422	03199
○ Operational test of main propulsion machinery	182.15-10 182.20-10	13108
• *Proper function of following gauges:* • *Engine RPM* • *Jacket water temp* • *Lube oil pressure gauges at the operation station) RPM not required for Old T*	176.804(a) 182.410(b) 182.20-5	
☐ Novel systems should be inspected to the Design Basis Agreement approved by the USCG prior to installation of the novel system.	175.540	13199
☐ Unfired pressure vessels (UPVs)		
○ Data plate(s) are legible		13199
○ Determine if UPV is exempt from inspection	54.10-20 182.330 54.01-15	
○ External exam, internal exam and/or hydrostatic test needs	176.812 61.10-5(b) 61.10-5(d)&(e)	
○ External (5 yrs)	61.10-5(b)(1)	
○ Internal (5 yrs when accessible)	61.10-5(b)(2) 54.01-35 MSM II/ B.1.O.4.a	
○ Witness hydrostatic test (if needed) (1.5 MAWP)	61.10-5(d) 61.10-5(e)(4)	
○ Installation & operation of pressure gauges	MSM II/ B.1.O.4.b	
○ Installation & operation of pressure-relieving devices	54.15-5(f)	
• *Twice in 5 yrs, no more than 3 yrs between tests; relieves at a pressure ≤ 10% above or below the valve's marked pressure*		13199
○ Pressure-relieving device setting does not exceed the UPV's MAWP & the device does not relieve at a pressure greater than the MAWP	54.15-5 61.10-5(i) 54.15-10(a)&(g)	
☐ Potable water system (when fitted)		
○ Tank vents are fitted with insect screens	21-1250.82(c) MSM II/A.C.2.a	09130
○ Operation of water pump(s) and pressurization system	21-1250.84(a) 54.01-15(a)	
○ Pressurization system is fitted with safety relief valve(s)	54.01-15(a)	

Section 9: Machinery & Auxiliary Machinery (MI)

Action		Ref	Code
○	Installation and arrangement of piping and valves	21-1250.82	09130
○	Water heaters comply with Parts 53 & 63 EXCEPT: • *Electric water heaters rated at not more than 100 psi and 250 °F are acceptable if:* • *Capacity ≤ 120 gallons;* • *Heat input ≤ 200,000 Btu/hour;* • *UL listed (174 or 1453); AND* • *Protected by pressure-temperature relief device*	182.320 182.320(c)	
○	Water heater must be installed & secured from rolling by straps or other devices		
♦ □	Bilge system		13104
○	Location and operation of pump(s) IAW Table 182.520(a) • *If there is a portable hand bilge pump must be:* • *Capable of pumping water, but not necessarily simultaneously, from all watertight compartments; and* • *Provided with suitable suction hose capable of reaching the bilge of each watertight compartment and discharging overboard*	176.804(h) 182.115(a) 182.520 182.25-10	13104
○	Manifolds, valves and piping • *≤ 65ft must have piping ≥ 1in* • *> 65ft must have piping ≥ 1.5in* • *Bilge suction will be fitted with a suitable strainer with an open area ≥ 3Xs the area of the bilge pipe*	 182.510 182.25-5 182.40-5(b)	
○	Vessels ≥ 26ft in length have a visual & audible alarm at the operating station to indicate a high water level in each of the normally unmanned spaces	182.530	
○	Vessels ≥ 26ft in length has been provided with individual bilge lines and bilge suctions for each watertight compartment with the exception of the space fwd of the collision bulkhead 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	182.510(a) 182.25-5(a)	
○	Witness bilge system operational test		
○	Pollution placard is posted (when applicable)	176.804(h) 33-155.450	14502

Section 9: Machinery & Auxiliary Machinery (MI)

Action	Ref	Code
☐ Exhaust system(s) (wet & dry)		13199
○ Condition	176.804(c)	
• *As an alternative vessels may comply with ABYC P-1*	182.425 182.430 177.405(b) 177.10-5(b) 182.15-15 182.15-20 182.20-15 182.20-20	
○ Dry Exhaust systems		
• *Exhaust pipes are clear of & suitably insulated from combustible materials and suitably insulated to prevent injuries*	177.970 177.35-15 182.425(c)	
• *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)*		
• *Horizontal dry exhaust pipes:* *-Do not pass through living or berthing areas* *-Terminate above the deepest load waterline* *-Are arranged to prevent entry of cold water from rough or boarding seas* *-Are constructed of corrosion-resisting material at the hull penetration*	182.425(a)(2) 182.15-15	
○ Exhaust systems cooled by water	182.425(b) 182.15-15	13199
• *Are provided with cooling water from engine cooling system of from a separate engine driven pump*		
• *Fitted so cooling water is injected into the exhaust system as close as possible to the engine exhaust manifold and so water passes through the entire length of the exhaust pipe*	182.430(g) 182.15-15(b)(4)	
• *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*	182.425(b)(5) 182.15-15(b)(5)	
• *Provided a suitable warning device, visual or audible, at the operation station to indicate any reduction in water flow when cooling water provided from source other than engine cooling system*	182.425(b)(6) 182.15-15(b)(6)	
• *Provided with a suitable strainer in the intake line.*		
☐ Auxiliary boiler(s) (when present)	54.10-20 176.812(b) 61.05-10 Table 61.05-15(a)-(d) 61.05-10 Table	13199
○ Maximum allowable working pressure (MAWP)		
○ Inspect internally		
○ Mounts		

Section 9: Machinery & Auxiliary Machinery (MI)

Action		Ref	Code
☐	Columns, gauge glasses and gauge cocks Steam gauge	61.05-15(e)	13199
☐	Safety valves Operation of safety relief valves • Twice in 5 yrs, no more than 3 yrs between tests; relieves at a pressure ≤ 10% above or below the valve's marked pressure Pressure-relieving device setting does not exceed the MAWP & the device does not relieve at a pressure greater than the MAWP	61.05-15(f) 61.05-10 Table 176.704 61.05-10 Table 61.05-20 54.15-10	

Section 10: Electrical Systems Inspection (ES)

Action	Ref	Code
☐ Alternative Standards		
○ Vessels (other than high speed craft) ≤ 65ft with ≤ 12 PAX may comply with 183.420 and ABYC Projects: E-8, E-9, A-16 instead of Part 183 in its entirety	183.130 183.01-15	02108
○ Systems < 50V may meet wiring requirements of 33 CFR 183.430 instead of 46 CFR 183.340; < 50V follow 183.05; >50V follow 183.10	183.05-1	
☐ Switchboard(s) & distribution panel(s)	183.330(a)-(e) 183.330(i) 183.10-10	02108
○ Location, condition and installation • *Dry, adequately ventilated* • *Totally enclosed* • *With drip shield* • *Dead front type*		
○ Non-conductive handrail & matting or grating on deck	183.330(f) 183.10-15(b)	
○ Blanks installed (if needed)	183.200(b)	
○ Working area around main switchboards	183.01-15(a) 183.330(e)	
○ Sized correctly	183.10-15(c)	
○ Overcurrent protection	183.330(j)	
○ Circuit directory/labeling (distribution panels)	111.30-19(a)	
○ Shore connection ≥ 50 V (box/receptacle shall be permanently installed)	183.380 183.10-35&40 183.220(d)	
○ Multiple generator interlock (switchboard)	183.390 183.10-50 183.322	
☐ Main service generator(s) & prime mover(s)		13102
○ Power source(s) requirements • *Must have two sources of power for Vital systems IAW 182.710*	183.310(a)	
○ Condition of generator(s) & prime mover(s)' components • *Accessible as possible* • *Adequately ventilated* • *Dry as practicable* • *Mounted above bilges* • *Drip proof*	183.320 183.322 183.324 183.10-5	
○ Installation of protective covers or guards	177.960 177.35-15	13102
○ Generator(s) nameplates are attached	183.320(d)	13102
○ Required gauges • *If ≥ 50 Volts, voltmeter & ammeter, for AC generators way to measure*	183.320(c) 183.10-5	

Section 10: Electrical Systems Inspection (ES)

Action	Ref	Code
frequency must also be provided		13102
○ Protected by overcurrent device	183.320(f)	
○ Reverse Power Relay (for parallel ops)	183.05-10(d) 183.322	
☐ Lighting systems		09203
○ Light fixtures	183.410 183.10-20(l)	
• *Globe, lens, or diffuser must have a guard or be made of high strength material except:*		
• *In accommodation space, radio room, galley or similar space*		
• *Comply with 183.200, UL 595 & series 1570*		
○ Presence of portable lights	183.430 UL1570	04103
• *At least 2 onboard; flashlights count*		
• *Located at operating station & at access to propulsion machinery space*		
○ Emergency lighting operational test	183.432 184.30-5	04103
• *Adequate fitted along line of escape to main deck from pax & crew accommodation spaces located below main deck*		
• *Automatically actuate upon failure of main lighting system*		
• *If not equipped with single source of emergency power for emergency lighting, must have individual battery powered lights that:*		
• *Automatically actuate upon loss of normal power*		
• *Are not readily portable*		
• *Are connected to an automatic battery charger; and*		
• *Have sufficient capacity for ≥ 2 hours of continuous operation*		
○ Overcurrent protection	183.380 UL 489	09209
☐ Battery installation		02108
○ Battery category	183.352 183.05-20	
• *Large (Charger output > 2 kw)*		
• *Small (Charger output ≤ 2 kw)*		
○ Ventilation	183.354 111.15-10	02108
• *Large (provided IAW 111.15-10)*		
• *Small (located in a well ventilated space)*		
○ Properly installed and secured	183.350(b) 183.354	
• *Located as high above bilge as practicable & secured*		

Action	Ref	Code
• *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)* • *Small (Protected from falling objects; must not be in a closet, storeroom or similar space)*		02108
○ Space for maintenance and removal		
○ Ammeter connected in the charging circuit	183.350(c)	
○ Proper ventilation of charger • *When charging batteries, must have natural or induced ventilation to disperse gasses*	183.350(f) 183.350(a)	
○ 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	183.05-45&50	
○ Supports for vertical & horizontal installations (metal supports spaced no more than 24in and in such a manner as to avoid chafing and other damage) • *Plastic tie wraps may be used as a means of support on vsls ≤ 65'*	183.10-20 183.340(b)(4)	02108
○ No sharp radius of bends	183.340(b)(5)	
○ No hazardous conditions exist (*for hazardous area installations see next task*) • *Protect pax, crew, other persons and the vessel from electrical hazards including fire caused by or originating in electrical equipment, and electrical shock* • *Protection from wet and corrosive environments*	183.200-220	09109
○ Cable size and condition • *Individual wires, rather than cable are used in systems > 50V, the wire must be in conduit*	183.340	02108

Section 10: Electrical Systems Inspection (ES)

Action	Ref	Code
• *All cable & wire must have stranded copper conductors with sufficient current carrying capacity for the circuit in which they are used* • *Conductors in power & lighting circuits must be ≥ 14 AWG* • *Conductors in control & indicator circuits must be ≥ 22 AWG*		02108
○ Condition of outlets	183.340(g)	
○ Connection types	183.340(h)	
☐ Components installed in designated hazardous areas		02108
○ Hazardous area(s) • *Spaces containing machinery powered by, or fuel tanks for, gasoline or other fuels having a flashpoint of ≤ 110 ˚F* • *Lockers used to store paint, oil, turpentine, or other flammable liquids*	183.530(a)	
Electrical equipment for hazardous area(s) • *Electrical equipment must be explosion proof or be part of an intrinsically safe system IAW requirements of 111.105*	183.530(b)	
○ Integrity of equipment	183.530(c) 111.105	

Section 11: Structural/Watertight Integrity (SW)

Action	Ref	Code
♦☐ Hatches and Class-1 watertight doors		03104/10
○ Knife edges	171.124 179.330(c)	03107
○ Gasket material	MSM II/B.1.E.5	
○ Watertight integrity between gasket and knife edge	170.270	
○ Condition and operation of hinges and dogging devices	MSM II/B.1.E.5	
○ Operation of Class-1 door's quick- acting closing device		
○ Operation of indicator lights at the control station	179.330(b)	
○ Markings	185.610	
☐ Inspect Class 2 & 3 watertight doors		03107
○ Operation of local controls	171.124 179.330(c) 170.270(c)(2) ASTM F1197/7.1	
○ Operation of remote controls		
○ Replaceable interface between door and frame assembly	ASTM F1197/7.1 170.270(c)(1)	
○ Operation of alarms	ASTM F1196/6.3	
○ Closing times are in compliance	ASTM F1197/11.5	03107
○ Markings	ASTM F1197/11.2 ASTM F1197/11.4 185.610	
○ Watertight integrity	ASTM F1196/11.1	
○ Doors operate under reserve power	ASTM F1196/S4 ASTM F1196/S1 170.270(c)(3) ASTM F1197/S3	
☐ Watertight bulkhead penetrations		03199
○ Locations • As high up and inboard as possible, number of penetrations should be minimized.	179.320(c) 171.114 171.119 182.720(d)(1)	03199
○ Watertight	MSM II/B.1.B.5	
○ Free of sluice valves	179.320(d)	
☐ Hull structure		02199
○ Damage, wastage & fractures	177.300	02106
○ No unauthorized repairs	MSM II/B.1.B.1 176.700	02106

Section 12: Pollution Prevention Inspection (PP)

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

Section 13: Topside Equipment Inspection (TE)

Action	Ref	Code
♦ ☐ Freeing ports and scuppers ○ No modifications ○ Unobstructed ○ Free operation of any flowback device (if applicable)	171 Sbpt H 176.700 178 Sbpt D 178.230 Stability Letter	03112/3
☐ Ground tackle, mooring lines & related equipment ○ 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	184.300 184.10-1	09228 09299
♦ ☐ Port lights, dead covers & natural vent openings ○ Covers are readily available & operational ○ Closing devices have proper fit & seal *(dogs, rims, seats, hinges and lugs)* ○ Port lights & dead covers have proper fit & seal	171.119 182.460(l) 182.465(h) 179.350(a) 179.350(b)	03106/8
☐ Fuel tank venting ○ Condition and location ○ Installation and condition of flame screen(s) ○ Installation of vent piping ○ Vent size ○ Condition of flexible vent pipe sections	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 02107
☐ Rails and guards ○ Rail heights & courses *(39.5", 200lb point load, 50lb uniform load minimum)* ○ Storm rails ○ Guards for vehicles	177.900 177.35-1 177.920 177.35-5 177.940 177.35-10	03103

•♦Sections 14-18: Human Factors & Safety Culture / Drills

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

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

- Who conducts the maintenance?
- Does it align with the manufacturer's manuals?
- Who reviews the manuals and develops the maintenance scheme?
- Is it documented or logged?

- How often is the bilge system tested?
  - Who conducts the tests?
  - What procedure is used/ how are the tests conducted?
  - How do you verify the tests have been satisfactorily completed?
  - Is it logged/documented? If so, where?
- How do you track preventative maintenance for the vessel firefighting systems?
- What is the process for ordering CG approved equipment such as lifejackets, flares or fire extinguishers? Are you aware of the CG MIX database which provides information on all COMDT approved lifesaving and fire protection equipment?
- What is the process for replacing appliances or furniture?
- Does the vessel anchor?
  - What is the process for doing so?
  - Is it documented?
- What 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

- ☐ Evaluate Fire Drill — 185.524, 176.810(d), MSM II/B.2.D.3 — 04109, 07125, 04118
  - ○ Witness fire drill
  - ○ Verify crew's ability to organize
  - ○ Verify crew's familiarity with their duties
  - ○ Verify crew's familiarity with use of equipment
  - ○ Verify method of summoning passengers to muster or embarkation stations
  - ○ Verify effective communication with master

- ☐ Did crew member sound alarm?
- ☐ Did crew member attempt initial action?
- ☐ Did the Master turn the vessel into the wind, slow down, etc, and make announcements to crew/pax and make the call to local CG or vessels in surrounding area?
- ☐ Did Master control situation from helm, make announcements and communicate effectively with the crew?
- ☐ Did crew members take control of the situation and direct pax as appropriate?
- ☐ Did crew members communicate effectively with Master, other crew members and pax?
- ☐ 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

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

- ☐ 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

☐	Evaluate abandon ship drill ○ Witness drill ○ Verify means or summoning crew and passengers ○ Verify crew's familiarity with assigned duties ○ Verify all lifejackets are correctly donned ○ Witness means of launching survival craft	176.808(g) 185.520	04110

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

International Voyages
Certificates and Documents (CD)

	Action	Ref	Code
☐	Passenger Ship Safety Certificate (*Int'l Route, >12 pax*)	SLS.14/Circ.87 Dated 11/15/89	01103
	○ Presence	176.910(a) SOLAS I/12(a)(i)	
	○ Validity	176.910(c)	
	○ Contents	SOLAS I/14 176.910(a)-(b) SOLAS I/15	
☐	Engine International Air Pollution Prevention (EIAPP) Certificate (*Int'l Route, Marine Diesel >130kW*)		01125
	○ Presence	MARPOL VI/13.1 MARPOL VI/13.8 NOx Code 2.1.1	
	○ Correct engines identified & no changes have been made	MARPOL VI/13.1.1	
	○ Statement of Compliance (issued by Manufacturer) is accompanied by EPA issued EIAPP	CG-543 PL 09-01 5.b	
☐	International Air Pollution Prevention Certificate (IAPP) and Supplement Record of Construction and Equipment (*Int'l Route, >400 GT ITC*)		01124
	○ Vessel particulars on IAPP and Record of Construction and Equipment	MARPOL VI/8	
	○ Annual, intermediate, renewal, repair and extension endorsements and/or change in anniversary date	MARPOL VI/8 MARPOL VI/5	
	○ Ozone depleting substances identified	MARPOL VI/12	
	○ Nitrogen Oxide emission sources identified	MARPOL VI/13	
	○ Sulphur Oxide (fuel oil) requirements identified	MARPOL VI/14 CG-543 PL 12-04	
	○ Incinerator installation identified (when applicable)	MARPOL VI/16 MARPOL VI/4	
	○ Validity of alternatives or equivalents	MARPOL VI/14.5	
☐	International Anti-Fouling System (IAFS) certificate with Record of Anti-Fouling System (*Int'l route*)		01131
	○ Vessel particulars	IMO Res MEPC.195(61) 4	
	○ COI has Anti-Fouling endorsement or, if not required, IAFS Certificates	MSM II/B.3.J AFS Article 3	
	○ Identification of applied Anti-Fouling System	AFS Annex 2	
	○ Vessel particulars on Record of Anti-Fouling Systems	AFS Annex 3 MEPC.195(61) 4.1	
	○ Anti-Fouling Systems details provided	MSM II/B.3.J MEPC.195(61) 4.2 & 5	

International Voyages
Certificates and Documents (CD)

Action	Ref	Code
○ No change in Anti-Fouling System has occurred since issuance of IAFS Certificates	IMO Res MEPC.195(61) 5.2 MSM II/B.3.J	01131
☐ International Energy Efficiency Certificate and Record of Construction (*Int'l Route, >400 GT ITC, mechanical propulsion*)		01138
○ Vessel particulars	IMO Res MEPC.203(62) Appendix VIII	
○ Energy Efficiency Design Index requirements (*New ships after 1/1/17*)	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	
☐ International Oil Pollution Prevention Certificate (IOPP) (*Intl' Route, >400 GT ITC*)	MARPOL I/9 MARPOL I/2.1-.4	01117
○ Vessel particulars	MARPOL I/9	
○ Vessel type is accurate	33-151.17-.19 MARPOL I/6	
○ Annual, intermediate, extension renewal, or change in anniversary date	33-151.19	
○ Record of construction and equipment	MARPOL I/9	
○ Control requirements for machinery bilge and fuel oil tanks identified	MARPOL I/14 MARPOL I/16	
○ Retention and disposal requirements for oily bilge water holding tanks	MARPOL I/12	
○ Standard discharge connection requirement	33-158.250 MARPOL I/13	
☐ Statement of Voluntary Compliance, MARPOL Annex IV (Sewage) (*Intl' Route, >400 GT ITC*)	NVIC 1-09 33-159.53 & .55 IMO Res MEPC.227(64)	01119
○ Vessel particulars		
○ Compliance type		
○ Discharge rate (draft & speed chart) identified		
○ Endorsements (extension or renewal)		
☐ Credentials		01299
○ STCW endorsements	10.109(d) 11.202 STCW I/2.6	
○ Vessel Security Officer endorsement	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
☐ International Load Line Certificate (ILLC) (*Int'l Route, >150 GT ITC or ≥79'*)		01108
○ Presence	175.122	

International Voyages
Certificates and Documents (CD)

Action	Ref	Code
○ Validity	ICLL Art. 16 42.07-45 ICLL Art. 15 ICLL Art. 19	01108
○ Certificate form ○ Confirm load line observed on hull (Task TII-DA01) matches certificate ○ Logbook entries are completed ○ Record of Conditions of Assignment (Form LL.11) is present and validates issued Load Line	ICLL Art. 18 42.07-5 ICLL I/9 42.07-20 CG-5212 Policy Notes 5.c	
□ Document of Compliance (ISM-DOC) (*Int'l Route, >12 pax*) ○ Presence ○ Validity ○ Document form ○ Alternate compliance arrangements	SLS.14/Circ.155 Dated 9/17/98 176.925 33-96.330 SOLAS IX/4.2 176.925 SOLAS IX/5 ISM 13.2-5 ISM 16 175.540 MSM II/E.3.C.5	01106
□ Safety Management Certificate (ISM-SMC)(*Int'l Route, >12 pax*) ○ Presence ○ Validity ○ Certificate form ○ Alternate compliance arrangements	SLS.14/Circ.155 Dated 9/17/98 176.925 33-96.340 SOLAS IX/4.3 176.925 SOLAS IX/5 ISM 13.5.1 ISM 16 175.540 MSM II/E.3.C.5	01107
□ International Ship Security Certificate (ISSC) & Continuous Synopsis Record (CSR) (*Int'l Route, >12 pax*) ○ Vessel particulars ○ Company name & address match International Safety Management documents ○ ISSC verification type with date ○ ISSC endorsement (Intermediate or additional)	SOLAS XI-1/5.5.2 ISPS A/19.2.4 SOLAS XI-1/5.3 ISPS A/19 ISPS A/19.1.1 ISPS A/19.1.1 ISPS A/19.3.4	01122

International Voyages
Certificates and Documents (CD)

Action	Ref	Code
○ Additional ISSC verifications, extensions, renewals or expiry advancements are completed ○ CSR is present & valid ○ CSR information matches ISSC	SOLAS XI-1/5.1 SOLAS XI-1/5.3 SOLAS XI-1/ 5.4.1-.3 SOLAS XI-1/5.3	01122
☐ Certificate of Documentation (COD) (*>5 NT, Int'l Route*) ○ Registry endorsement	67.17 67.19	CG003
☐ Tonnage Certificate ○ Presence ○ Validity ○ Correct measurement system ○ Vessel particulars remain valid	69.69 69.11 NVIC 11-93 69.55 69.105 ICTM Art. 3	01132
☐ MARPOL Placards, Garbage Management Plans, & Record Keeping (*Int'l Route, >12 pax*) ○ Placard (>12m length) ○ Management Plan (≥15 POB) ○ Record Book (≥15 POB)	MARPOL 10.1.1 MARPOL 10.2 MARPOL 10.3	14502 14503 01320

International Voyages
Logs & Manuals Inspection (LM)

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

International Voyages
Bridge/Navigation & Lifesaving/Firefighting

Action	Ref	Code
☐ Voyage data recorder (*Int'l Route, >12 pax*) ○ Presence ○ Installation	SOLAS V/20	10114
☐ Automatic identification system (AIS) (*Int'l Route, >12 pax*) ○ Presence ○ Operational	33-164.46 SOLAS V/19.2.4	10113
☐ Bridge navigation equipment (*Int'l Route, >12 pax*) ○ Spare magnetic compass ○ Pelorus or compass bearing device ○ Means of correcting heading & bearing to true at all times ○ Electronic plotting aide ○ Speed & distance measuring device	SOLAS V/19.2.2.1 SOLAS V/19.2.1.2 SOLAS V/19.2.1.3 SOLAS V/19.2.3.3 SOLAS V/19.2.3.4	10105 10105 10106 10107 10103
☐ Communication equipment (*Int'l Route, >12 pax, Sea Area*) ○ Operation of NAVTEX (*All*) ○ Operation of portable VHF(s) (*All*) ○ Radar transponder (AIS-SART)(*All*) ○ GMDSS radio equipment installation is appropriate for the Sea Area in which the vessel operates • *Sea Area A1 – covered by ≥1 VHF-DSC coast station* • *Sea Area A2 – excluding A1; covered by ≥1 MF-DSC coast station* • *Sea Area A3 – excluding A1/2; covered by INMARSAT* • *Sea Area A4 – excluding A1/2/3*	47-80.1101(c) SOLAS IV/7.1.4 47-80.1095 SOLAS III/6.2.1 47-80.1095 SOLAS III/6.2.2 46-80 Sub W	05110 05109 11123 05118
☐ Long range identification and tracking (LRIT) (*Int'l Route, >12 pax, Except ships w/AIS in Sea Area A1*) ○ Presence ○ Operational ○ Conformance test report • *Check for LRIT exemption in MISLE*	33-169.205(a) SOLAS V/19-1	10137
☐ Depth sounding equipment (*Int'l Route, >12 pax*) ○ Operational	SOLAS V/19.2.3.1	10117
☐ Global Maritime Distress and Safety System (GMDSS) equipment ○ Station ID numbers on applicable	47-80.1083 SOLAS IV/6.2.5	05118

International Voyages
Bridge/Navigation & Lifesaving/Firefighting

Action	Ref	Code
equipment	47-80.1075 SOLAS IV/17	05115 05103
○ Logs for tests and notations	47-80.1083-.1095 SOLAS IV/6.1	05109
○ Equipment for operation areas	NVIC 3-99	
○ Verify operation of VHF Digital Selective Calling (DSC) radio	47-80.1085(a)(1) SOLAS IV/7.1.1	05114
○ Emergency source of power provided	47-80.1099(b) SOLAS IV/13.2	
○ Compliance with maintenance method(s)	Operations Manual	
• *IV/15.6 Sea Areas A1 & A2 Methods (one) – duplication of equipment, shore-based maintenance, or at-sea maintenance capability*	47-80.1105(c) SOLAS IV/15 NVIC 3-99	05107
• *IV/15.7 Sea Areas A3 & A4 (two) - duplication of equipment, shore-based maintenance, or at-sea maintenance capability*		
• *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.*		

International Voyages
Lifesaving & Firefighting (LS)(FF)

☐ Immersion suit (*SOLAS*)		11119
○ USCG type approval	180.10	
○ Quantity & size presence	199.70(c) SOLAS III/4	
○ Verify stowage		
• *Readily accessible*	199.70(c)	
• *Container clearly marked with "IMMERSION SUITS" or "ANTI-EXPOSURE SUITS" & quantity, identity and size*	199.70(c)(2)&(d) 199.70(c)(3)	
○ Markings *(Vessel or person name)*	199.70(c)(4) 160.006-2	
○ Attachments & fittings *(life jacket light & whistle)*	NVIC 1-08	
○ Condition and suitability		
☐ Emergency outfits and equipment (*SOLAS*)		07111
○ Number of outfits		
○ Spare charges for breathing apparatus	SOLAS II-2/10.10.2 SOLAS II-2/10.10.2.5	
○ Means of recharging breathing air cylinders	SOLAS II-2/10.10.6	
○ Stowage location		
• *Easily accessible*	SOLAS II-2/10.10.3	
• *Permanently & clearly marked*	SOLAS II-2/10.10.3.1	
• *Separated as widely as possible*		07108
○ Markings		
☐ Fire Control Plan (*SOLAS*)	SOLAS II-2/15.3	07122
○ Contents & current		
○ Location *(permanently exhibited)*		

International Voyages
Bridge/Navigation & Lifesaving/Firefighting

Action		Ref	Code
○	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
☐	International Shore Connection *(SOLAS)*	Fire Control Plan SOLAS II-2/ 10.2.1.7 FSS 2.2 IMO Res A.952(23)	07118
○	Confirm location with Fire Control Plan		
○	Gaskets and bolts are with the connection		
○	Size, markings, and proper construction		

International Voyages
Security (SD)

Action	Ref	Code
☐ 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) (*if applicable*)	33-104.415(a)	
○ Implementation	33-104.400(a)	
☐ Security records	33-104.235(b)(1)	
○ Record(s) of security training	SOLAS XI-2/4.2	16107
○ Drills have been conducted	ISPS A/10.1.1 33-104.235(b)(7) ISPS A/5.7 NVIC 4-03 Encl. 3 Sect. 10	16106 16107
○ Presence of Declarations of Security (DoS)	33-104.235(b)(2)	
○ Record(s) of security drills	ISPS A/10.1.1 33-104.235(b)(2) ISPS A/10.1.1	16107
○ Annual exercise has been conducted		16107
○ Record(s) of annual audit	33-104.235(b)(8) ISPS A/10.1.6	16107
☐ Security equipment	33-104.292(b)(ii)	16107
○ Equipment matches plan	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	
☐ Crew's knowledge of security plan		
○ Identify Company Security Officer (CSO)	33-104.200(b)(2) SOLAS XI-2/4.2 ISPS A/11.1	16106
○ Identify Vessel Security Officer (VSO)	33-104.200(b)(2)	16106
○ VSO knowledge regarding his/her responsibilities	ISPS A/12.1 33-104.215(e) ISPS A/12.2	16104
○ Crew's level of knowledge regarding their security responsibilities	NVIC 4-03 Encl. 3 Sect. 9	16106
○ Compliance with current Maritime Security (MARSEC) level	33-104.220 ISPS A/13.3 NVIC 4-03 Encl. 3 Sect. 10 33-104.240 33-104.215(e)(9) ISPS A/12.2.9	16105

Sail Vessel Addendum

Action	Ref	Code
Certificates & Documents (CD)		
•♦ ☐ Master's Merchant Mariner Credential (MMC) ○ Auxiliary sail endorsement	15.901(d)	01201
☐ Rigging Plan ○ Vessel information and structure particulars ○ Marked "examined"	177.202(b)(12) 177.202(c) 177.202(b)(12) NVIC 2-16 Encl 1 IV	99101
☐ Sail Area Plan (Sail Plan) ○ Sail Plan arrangement in Rigging Plan ○ Sail Plan is incorporated into stability letter	177.202(b)(12)(ii) 178.210 Stability Letter NVIC 2-16 Encl 1 IV	99101
☐ Preventative Maintenance Plan ○ Rig discrepancy records ○ On-going maintenance	NVIC 2-16 Encl 1 II	99101
Topside Equipment (TE)		
•♦ ☐ Spar(s) &fittings ○ Rig arrangement and design ○ Materiel condition of masts, yards, booms and gaffs ○ Mast, yard, boom and gaff fittings ○ Head rig (bow sprit/jib boom) spars and fittings	NVIC 2-16 Encl 1 III(d) 176.802(a)(3) 177.330 Approved Rig Plan Stability Letter 176.802(a)(3) 176.802(a)(3) 176.802(a)(3)	99101
•♦ ☐ Standing rigging components (stays and shrouds) ○ 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)	176.802(a)(3) NVIC 2-16 Encl 1 III(d)	99101
☐ Rail configuration ○ Approval for rail height and location ○ Configuration IAW with OCMI approval	177.900(f)	03103
•♦ ☐ Running rigging components (used to handle sails and movable spars)	176.802(a)(3) NVIC 2-16 Encl 1 III(f)	99101

Sail Vessel Addendum

Action	Ref	Code
○ Sheets (lines, blocks, shackles, cleats) ○ Halyards (lines, blocks, shackles, cleats) ○ Topping lift ○ Sail control system (lazyjack, dutchman) (when applicable) ○ Furler control sheets/cleats ○ Cars, tracks, winches, vangs and travelers	176.802(a)(3) NVIC 2-16 Encl 1 III(f)	99101
☐ Rigging/hull components under sail ○ Condition of sails (stitching/grommets/reinforcements) ○ Crew's ability to set/strike sails ○ Crew safety aloft ○ Passenger safety ○ Wire tension and fittings on standing rigging ○ Operation of running rigging components ○ Hull/mast internal structure	176.802(a)(3) 176.802(c) 176.404(a) 176.802(a)(5) 177.500(d)(3)(v) 177.15-1 176.802(a)(3) 176.802(c) 176.802(a)(3) 176.802(c) 176.802(a)(3) 176.802(c) NVIC 2-16 Encl 1 III(f)	99101
•♦ ☐ Catamaran forestay load path & hull attachments ○ Bow tube or beam arrangement ○ Gull stay/dolphin striker ○ Bridle stays	176.802(a)(3) NVIC 2-16 Encl 1 III(d)	99101

Emergency Drill (ED)

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

Internal Structural Examination (IS)

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

Wood Vessel Addendum

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

Action	Ref	Code
• *Beginning at the 20th year of age and every 10 years thereafter for fresh water service:* • *Remove a minimum of 8 fasteners per side below the w/l concentrating at:* • *Garboard seams* • *Stem joint* • *Plank ends in area of bent frames* • *Shaft logs* • *Under engine beds*	176.610(a) NVIC 7-95 4.K.1-2	02199
○ Condition of fastenings	NVIC 7-95 4.K.2	
○ Document type, condition, material, and location of fastenings	NVIC 7-95 4.K.1-2	
○ Through bolts (keel, chine, clamp, double frame, floor timber bolts, etc.) (when needed)	NVIC 7-95	
○ No unauthorized fastenings		
☐ Internal inspection of wood hull	176.610(b) NVIC 7-95 4.A-F MSM II/ 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	02199
☐ Repair(s)	177.10-1 176.610 NVIC 7-95 2.01-10(a)(2)	02199
○ Extent of decay, defect(s) and damage		
○ Repair proposal	176.700 NVIC 7-95 Ch. 5	
○ Repair materials	176.700 & 177.300 NVIC 7-95 Ch. 3 Lloyd's Yachts & Small Craft 176.610 NVIC 7-95 Ch. 5	
○ Inspect repair(s)		

Action	Ref	Code
Hull Inspection (HI)		
☐ Steel and aluminum hulls		02106
○ Wastage, defect(s) and damage *(Shell, Keel and Bilge keel, High stress locations and welds, etc.)*	176.802 176.610 176.802(a)(1) NVIC 7-68 IV(B) NVIC 11-80	02106 CG016
○ Critical areas *(stringer plate, sheer plate, etc.)*	176.802(a)(2) NVIC 7-68 II(A)	
○ Seachests, piping and overboard discharges for wastage, defect(s) and damage	176.802(a)(7) NVIC 7-68 II(A) MSM II/B.3.B	03199
○ Condition of drydock (bottom) plugs		
○ Wastage/corrosion is within limits	NVIC 7-68 III(C) ABS 7-A-4/27	02106
☐ Hull markings	185.602 175.122 SOLAS XI-1/3	03199
○ Draught (draft) marks & load marks (*>65' or SOLAS*)		
○ Load Line & Deckline *(>79' or SOLAS)*		02120
○ IMO Hull marking (*SOLAS*)		
○ Machinery space marking (*SOLAS*)	SOLAS XI-1/3	
○ Name and hailing port/State number	185.602 67.123	CG014
• *Name clearly marked on port and stbd bow and stern; hailing port on stern; NLT 4" Latin alphabet, Arabic /Roman #'s*		
• *State documented vessels are to be marked as required by the state which is regulated under 33 CFR 173.27.*	33-173.27	
• *State numbers are required on both sides of the bow.*	33-181.23	
☐ Tailshaft(s), stern bearing(s) and propeller(s)		03199
○ Determine if tailshaft(s) needs to be drawn	176.670 MSM II/B.3.D.3	
○ Bearing clearance & inboard seal assembly	176.670 Manufacturer's Inst	
○ Visually examine entire shaft (*if in question*)	176.670	
○ Non-destructive testing (NDT) of the shaft's taper section and keyway (*if in question*)	176.670	
○ NDT of propeller coupling bolts and flange radius (*if in question*)	176.670 MSM II/B.3.D.10	
○ Condition and weardown of strut bearing(s)		
• MSM Vol II Sec B Ch. 3-34: With wood or rubber bearings, "feeler" gauges of known thickness can be inserted between the		03199

Action	Ref	Code
shaft and the bearing to determine the amount of weardown. Weardown 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 weardown. Maximum weardown 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.	176.610(a)	03199
○ Condition of propeller • *NDT if in question*		
☐ Rudder installation		02105
○ Type of assembly installed	176.814 MSM II/B.3.E.2	
○ Examine rudder assembly for deterioration and defects	176.610(a)	
○ Rudder bearing clearance(s) are within limits	Manufacturer's Inst	
○ Condition of pintle(s), gudgeon(s), bushing(s), pintle nut(s) and locking device(s)	MSM II/B.3.E.2 MSM II/B.3.E.2	
○ Condition of pintle by nondestructive test (NDT) (if in question)		
☐ Hull appendages	176.610(a) 182.422	03199
○ Condition and structural integrity of bilge keel		
○ Condition of keel coolers		
○ Condition of transducers and other similar appendages		
○ Bow/stern thrusters		
○ Shaft & rudder packings		
☐ Anchor chain(s)	184.300	09228
○ Length of chain for satisfactory condition • *Such as wastage*		
○ Chain locker for satisfactory condition • *Such as wastage*		
☐ Sea valve(s)		03199
○ Quantity and type • *Valves within 6" of waterline on a through hull penetration*	176.610 179.350(c)&(d) 176.610	
○ All sea valves are properly identified and are opened for examination	176.25-10 176.610	
○ External and internal components		

Action	Ref	Code
• *Verify correct operation of valve components* • *Verify correct seating* (blue or pressure test if needed)		03199
☐ Anti-Fouling Requirements (*SOLAS*)		
○ Vessel particulars	IMO Res MEPC.195(61) 4	14701
○ COI has Anti-Fouling endorsement or, if not required, IAFS Certificates	MSM II/B.3.J AFS Art.3	14701/3
○ Identification of applied Anti-Fouling System	AFS Annex 2 AFS Annex 3	14702
○ Vessel particulars on Record of Anti-Fouling Systems	MEPC.195(61) 4.1	14701
○ Anti-Fouling Systems details provided	MSM II/B.3.J MEPC.195(61) 4.2 & 5	14702
○ No change in Anti-Fouling System has occurred since issuance of IAFS Certificates	MEPC.195(61) 5.2 MSM II/B.3.J	
☐ Inspect fiberglass external hull		02106
○ Condition	176.610(a) NVIC 8-87 Ch. 5	
○ Stress areas	176.610(a) NVIC 8-87 Ch. 5	
○ 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 Ch. 5.C	
○ No unauthorized repairs	2.01-15(a)(2) 176.700 NVIC 8-87 Ch. 6	
☐ Fiberglass internal hull		02199
○ Condition	176.610(a) NVIC 8-87 Ch. 5	
○ Stress areas	176.610(a) NVIC 8-87 Ch. 5	
○ 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 Ch. 5.C	
○ No unauthorized repairs	2.01-15(a)(2) 176.700 NVIC 8-87 Ch. 6	
☐ Fiberglass repair(s)		02199
○ Extent of damage, defect(s) and/or delamination	176.610 NVIC 8-87 Ch. 6	
○ Repair proposal	2.01-15(a)(2) 176.700 NVIC 8-87 Ch. 6	
○ Repair materials	176.700 NVIC 8-87 Ch. 4	

Action	Ref	Code
○ Inspect repair(s)	176.610 NVIC 8-87 Ch. 4	02199
Internal Structural Examination (IS)		
☐ Confined spaces are safe for entry		99101
○ Marine Chemist certificate	29-1915.12(f) CIM 5100.47A/6.G.9.c NFPA 306/4.3	
○ Competent person has maintained Marine Chemist Certificate, verify competent person credentials, testing methods and logs	29-1915.15 CIM 5100.47A/ 6.G.9.c(3) NFPA 306/4.6.2	
○ No changes to vessel's condition		
○ Forced ventilation is provided (IAW Marine Chemist Cert.)	29-1915.15(b)	
○ Condition of space access point	29-1915.13(b)(3) 29-1915.76	
☐ Internal structures		02199
○ Internal structures	176.610(b) 176.802	
○ Frames		
○ Floors	MSM II/B.3.B	
○ Shelves, brackets, clamps		
○ Bulkheads	NVIC 7-68 III(C)	
○ Tank tops		
○ Coamings, closures & other fittings		
○ Wastage is within acceptable limits		
☐ Watertight integrity	176.802	
○ Hull openings and closures	179.360	03199
○ Deck openings and closures	MSM Vol IV Ch 6.I.5	03104/10 03107
○ Watertight doors	MSM Vol II B.1.5	03199
○ Watertight subdivisions/bulkheads	179.350 171.114 171.119	
☐ Stability	171 Sbpt H	
○ Drainage	178 Sbpt D	03112/3
○ Major changes/modifications		01326
○ Solid ballast		01326
○ Self-bailers and cockpit freeing ports	178.510 178.420	03112/3
• *Check valves*		
• *Required area*		
Structural/Watertight Integrity (SW)		
☐ Hatches and Class-1 watertight doors		03104/10
○ Condition of knife edges	171.124 179.330	03107

Drydock & Internal Structure Examination Addendum

Action	Ref	Code
○ Condition of gasket material	MSM II/B.1.E.5	03104/10
○ Verify watertight integrity between gasket and knife edge	170.270	03107
○ Condition and operation of hinges and dogging devices	MSM II/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	
☐ Inspect Class 2 & 3 watertight doors	171.124	03107
○ Operation of local controls	179.330(c) 170.270(c)(2) 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 F1196/6.3	
○ Operation of alarms		
○ Closing times are in compliance	ASTM F1197/11.5	03107
○ Markings	ASTM F1197/11.2 ASTM F1197/11.4 185.610	
○ Watertight integrity	ASTM F1196/11.1	
○ Operation of doors under reserve power	ASTM F1196/S4 ASTM F1196/S1 170.270(c)(3) ASTM F1197/S3	
☐ Watertight bulkhead penetrations		03199
○ Locations – *as high up and inboard as possible, number of penetrations should be minimized.*	179.320(c) 171.114 171.119	03199
○ Watertight	182.720(d)(1)(ii)(C)	
○ Free of sluice valves	MSM II/B.1.B.5 179.320(d)	
☐ Hull structure	177.300	02199
○ Damage, wastage and fractures	MSM II/B.1.B.1	02106
○ No unauthorized repairs	176.700 2.15(a)(2) 177.10-1	02199

Welding Repair Inspection (WR)

☐ Steel and aluminum structural repair proposals		02199
○ Extent of damage and/or wastage/corrosion	177.10-1 176.700(d) 177.300 NVIC 7-68 IV ABS 2-4-1/5.19 2.01-15(a)(2)	

Drydock & Internal Structure Examination Addendum

Action	Ref	Code
○ Repair proposal	176.700(d) NVIC 7-68 IV	02199
○ Repair materials	176.700(d) NVIC 7-68 IV	
○ Welding procedures	176.700(d) 177.340	
○ Alternative repair methods for equivalency	MSM II/A.5.A 176.700(d)	
○ Welder's proficiency & qualifications		
☐ Aluminum fit-up	177.10-1 177.300(b)	02199
○ Material & fitted with approved joint detail	NVICs 7-68 & 11-80 ABS 30.1	
○ Materials (base, filler, gas)	ABS 30.1	
○ Welding processes	ABS 30.1.3	
☐ Steel fit-up	177.10-1 177.300(b)	02199
○ Material & fitted with approved joint detail	NVIC 7-68 V ABS 2-4-1/3	
○ Materials (base, filler, gas)	176.700(b) ABS 2-1-1/1.1	
○ Welding processes	176.700(b)	
☐ Defects in welds	176.700(b) 177.300(b)	02199
○ Examine welds for uniformity and reinforcement	ABS 2-4-1/5.15.1 ABS 30.5.8 (Aluminum)	
○ 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)	
○ 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)	
☐ Back gouge (if used)	176.700(b) 177.300(b)	02199
○ Examine welds for defects (discontinuity)	NVIC 7-68 V(G)(2) ABS 2-4-1/5.9	
○ Proper weld sequencing	NVIC 7-68 V(F) ABS 2-4-1/5.3 ABS 30.5.5 (Aluminum)	
○ Joints are cleaned between interpasses	NVIC 7-68 V(E) ABS 2-4-1/3.5 ABS 30.5.3 (Aluminum)	

Drydock & Internal Structure Examination Addendum

Action	Ref	Code
Nondestructive Testing (NT)		
☐ Verify nondestructive testing (NDT) method		02199
○ Individual's knowledge of method and/or technician's qualification and certification	176.700(d) NVIC 7-68 9(V)(A) ABS 2-4-1/5.17 ABS NDT Guide 4/1	
○ Calibration / preparation		
○ Technician examine/interpret readings		
○ Evaluate test results or review technician's report	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	
• *Magnetic Particle*		
• *Radiography (x rays)*		
• *Ultrasonic*		
• *Hydrostatic*		
• *Pneumatic*		

Subchapter "T" Applicability Chart
(46 CFR 175-185)
Less than 100 GT
Less than 150 PAX
Overnight 49 PAX

	181.300	181.600	182.600	184.404	184.410	183.420	184.610	185.514	185.602	175.122	179.210	179.212	182.510	182.530	182.520(e)	181.320(c)	181.320(b)	180.210	180.75	180.64	179.330	180.70	180.70	180.70	177.500(j)	182.130 182.500
Fire pump							X					X					X									X
Fire axe																										
Steering indicator																										
FCC radar				X																						
GPS					X																					
Nav lights that meet UL 1104																										
Public address system							X																			
station bill																										
Hull marks																										
Load Line										X																
Collision Bulkhead (5-15 LBP)					X																					
Subdivision																										
Bilge System																										
Bilge Alarm																										
Substitute electric submersible (for bilge)					X																					
16mm Garden Hose (for firefighting)					X																					
Commercial UL fire hose	X																									
Rescue boat																										
Lifejacket lights																										
EPIRB																										
Hinged QAWTD																										
Ring buoy 1 - 20"																										
Ring buoy 1 - 24"																										
Ring buoy 3 - 24"																										
Alternative, vert latter to scuttle for escape																										
ABYC compliance																										