

2600SEG-310 (BOARD OF INSPECTORS)

MARITIME SAFETY STANDARD MAJOR, MODERATE, AND MINOR DEFICIENCIES IN FLOATING EQUIPMENT

DEFINITIONS:

1. Major deficiencies: those deficiencies can require for the floating equipment to be put out of service. Deficiencies that, according to the international conventions (SOLAS 74, MARPOL 73/78, LL 66, ITC 69), affect adversely the navigability, and put at great risk the safety of people, equipment and the environment.
2. Moderate deficiencies: those deficiencies do not require for the floating equipment be put out of service, but they require restrictions. Deficiencies that don't affect adversely the navigability, but directly affect the floating equipment's operation and performance.
3. Minor deficiencies: those deficiencies that due to their nature do not affect directly the navigability, or its operation and performance. The floating equipment may operate unless the inspector determines otherwise.
4. OPXI-S: Maritime Safety Unit
5. Correct immediately: rectify, correct errors or defects immediately, in case that an immediate correction cannot be made, the vessel must stop operations.

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1. LIFESAVING EQUIPMENT

TABULATION OF DEFICIENCIES					REQUIRED ACTION
MAJOR		MODERATE		MINOR	
a. LIFE JACKETS					
(1)	Inaccessible				Out of service and correct immediately
(2)	Total shortage				Out of service and correct immediately
		(3)	Inadequate amount		Restrict number of persons on board
		(4)	Inadequate type		Restrict number of persons on board
		(5)	Lack of reflective tape		Restrict number of persons on board
		(6)	Lack of boat hooks		Restrict number of persons on board
		(7)	Inadequate condition, faded, broken or deformed		Restrict number of persons on board
				(8)	Incorrect name or without a name Correct in 15 days
				(9)	Inadequate storage Correct in 15 days
				(10)	Unmarked location Correct in 15 days; mark with IMO pictogram
		(11)	Lack of lighting		Correct immediately or restrict use to daytime only
		(12)	Lack of whistle		Correct immediately or restrict use to daytime only
b. LIFE RING BUOYS					
(1)	Inadequate quantity				Out of service and correct immediately
				(2)	Lack of floating stem Correct in 3 days
		(3)	Lack of floating stem or auto-lighting fixtures		Correct immediately or restrict to daytime use only
		(4)	Lack of reflective material		Correct immediately or restrict to daytime use only
				(5)	Inadequate diameter Correct in 15 days
				(6)	Incorrect name or without a name Correct in 5 days
		(7)	Advanced deterioration (discolored, broken)		Correct immediately or restrict number of people on board

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TABULATION OF DEFICIENCIES					REQUIRED ACTION
MAJOR		MODERATE		MINOR	
				(8) Inadequate mounting (not accessible, not easy to throw and it is not affixed)	Correct in 10 days
				(9) Unmarked location	Correct in 15 days. Mark area with IMO pictogram
c.	BUOYANT SURVIVAL APPARATUS AND/OR INFLATABLE LIFE RAFT				
	(1) For not having				Out of service and correct immediately
	(2) Not of free-floating/buoyancy position				Out of service and correct immediately
		(3)	Inadequate capacity and/or quantity		Correct immediately or restrict the number of persons on board
		(4)	Expired inspection certificate (inflatable raft)		Correct in 30 days or restrict number of persons on board according to the capacity of certified rafts
		(5)	Lack of stem or auto-lighting fixture		Correct immediately or restrict to daytime use only
		(6)	Lack of reflective material		Correct immediately or restrict to daytime use only
				(7) Lack of floating lanyard	Correct in 7 days
				(8) Lack of hydrostatic release or expired test (inflatable raft)	Correct in 30 days
				(9) Deteriorated	Replace in 7 days
				(10) Incorrect name or unmarked	Correct in 5 days
				(11) Unmarked location	Correct in 15 days. Mark area with IMO pictogram.
d.	Signaling				
		(1)	Lack of red flag for emergencies (only vessels less than 20 m)		Correct immediately or restrict to night time use

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TABULATION OF DEFICIENCIES						REQUIRED ACTION
MAJOR		MODERATE		MINOR		
			(2) Lack of red lantern that provides red light (only vessels less than 20 m)			Correct immediately or restrict operation to daytime use
				(3)	Lack of fog bell	Correct in 10 days
	(4)	Lack of mechanical horn, audible at a distance of at least one mile				Out of service and correct immediately
				(5)	Lack of a portable audible apparatus, activated manually, by mouth or mechanically (only vessels of less than 20m)	Correct in 15 days
e.	Rescue Equipment					
	(1)	Lack or inoperative man overboard recovery equipment (over 12 m)				Out of service and correct immediately
	(2)	General alarm system not working				Out of service and correct immediately
	(3)	Lack of SCBA (Self-Contained Breathing Apparatus)				Out of service and correct immediately
				(4)	Deficient, but operational, general alarm system	Correct in 15 days
				(5)	Lack of spare cylinders for SCBA	Correct in 15 days
				(6)	Lack of procedures for using man overboard recovery equipment	Correct in 15 days
				(7)	Lack of metallic ladder and hook	Correct in 15 days
f.	Others					
	(1)	Lack of muster list				Out of service and correct immediately

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TABULATION OF DEFICIENCIES					REQUIRED ACTION	
MAJOR		MODERATE		MINOR		
(2)	Emergency exit with obstacles or locked.			(3)	Lack of oars or paddles.	Out of service and correct immediately Correct in 15 days
		(4)	Insufficient evacuation routes			Correct immediately or restrict access to the compartment
				(5)	Muster list is not updated	Correct in 15 days
				(6)	Emergency exit without sign	Correct in 5 days
(7)	Lack of muster and evacuation record					Out of service and correct immediately
(8)	There is no damage control box or it is incomplete in vessels over 20 m					Out of service and correct immediately
				(9)	Lack of or deteriorated boat hook (vessels over 12 m)	Correct in 15 days
		(10)	Lack of or deteriorated boat hooks			Correct immediately
				(11)	Lack of Small Craft Operator Manual or the Maritime Regulations for the Operation of the Panama Canal.	Correct in 15 days
				(12)	Lack or incomplete first-aid kit	Correct in 15 days
(13)	Lack of anchor and anchor gears					Out of service and correct immediately
				(14)	Lack of or damaged safety gangway handles or they are damaged	Correct in 15 days
				(15)	The name of the vessel is not painted on the structure	Correct in 15 days

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TABULATION OF DEFICIENCIES					REQUIRED ACTION
MAJOR		MODERATE		MINOR	
		(16)	Lack of passenger seats		Correct immediately or restrict the number of passengers
(17)	Lack of proper seating for high speed vessels				Out of service and correct immediately

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2. FIREFIGHTING EQUIPMENT

TABULATION OF DEFICIENCIES					REQUIRED ACTION
MAJOR		MODERATE		MINOR	
a. Fire extinguishers					
(1)	Incorrect quantity or size required				Out of service and correct immediately
(2)	Lack of seal in CO ² extinguisher				Out of service and correct immediately
(3)	Extinguisher is inaccessible				Out of service and correct immediately
(4)	Lack of pressure or low weight				Out of service and correct immediately
(5)	Poor conditions				Out of service and correct immediately
			(6)	Not mounted on their approved base	Correct in 7 days
(7)	Inspection or test not updated				Out of service and correct immediately
			(8)	Not located where indicated (notable)	Correct in 7 days
			(9)	Incorrect color, faded	Correct in 7 days
			(10)	Location without signs	Correct in 7 days. Mark area with IMO pictogram
b. FIXED FIRE EXTINGUISHING SYSTEM					
(1)	Inoperative				Out of service and correct immediately
(2)	Lack of cylinders				Out of service and correct immediately
(3)	Deteriorated piping and hose system				Out of service and correct immediately
(4)	Advanced cylinder corrosion or on other parts of the system.				Out of service and correct immediately

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TABULATION OF DEFICIENCIES						REQUIRED ACTION
MAJOR		MODERATE		MINOR		
(5)	Expired system hydrostatic test					Out of service and correct immediately
				(6)	Lack of use instructions.	Correct in 7 days
				(7)	System and cylinder corrosion	Correct in 7 days
(8)	Inoperative release valve					Out of service and correct immediately
(9)	Cylinder or cylinders under required weight (10% under required weight)					Out of service and correct immediately
				(10)	Inspection or weighing of cylinder expired	Correct in 90 days. Request an extension from OPXI-S
(11)	Inoperative electric/pneumatic siren					Out of service and correct immediately
(12)	Inoperative alarm/light					Out of service and correct immediately
c.	MAIN FIREFIGHTING SYSTEM (INTERNAL)					
(1)	Pump out of service					Out of service and correct immediately
(2)	Pump <50 psi					Out of service and correct immediately
(3)	Defective piping					Out of service and correct immediately
(4)	Pump <50 psi in two simultaneous exits					Out of service and correct immediately
				(5)	Pump with leakage	Correct in 7 days
				(6)	Deficient piping system (valves, pipes, filters)	Correct in 7 days
				(7)	Fire hydrant not numbered	Correct in 7 days
		(8)	Fire hydrants highly corroded or damaged			Correct in 90 days

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TABULATION OF DEFICIENCIES					REQUIRED ACTION
MAJOR		MODERATE		MINOR	
				(9) Fire hydrant without tools	Correct in 7 days
				(10) Piping with incorrect color coding	Correct in 7 days
				(11) Inadequate amount or type of axes	Correct in 7 days
d.	MAIN FIREFIGHTING SYSTEM (EXTERNAL)				
		(1)	Fire pump inoperative or with a pressure <100 psi at maximum revolutions		Correct immediately or restrict firefighting activities
		(2)	Stern fire hydrant barrel inoperative		Correct immediately or restrict firefighting activities
		(3)	Lack of foam		Restrict firefighting activities
		(4)	Deficient foam proportioner valve		Correct or restrict firefighting activities
				(5) Pump with leakage	Correct in 7 days
				(6) Pump has hot bushing surface	Correct in 7 days
				(7) Foam system corrosion	Correct in 7 days
				(8) Fire hydrant not numbered	Correct in 7 days
				(9) Fire hydrant without tools	Correct in 7 days

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3. NAVIGABILITY

TABULATION OF DEFICIENCIES						REQUIRED ACTION
MAJOR		MODERATE		MINOR		
a.	MACHINERY					
	(1)	Ventilation and ignition (interlock) inoperative in gasoline engines, gasoline vapors concentration over 890mg/m ³ or 300 ppm as total organic carbon (TOC).				Out of service and correct immediately
	(2)	Lack of operating procedures in equipment using gasoline as fuel.				Out of service and correct immediately
	(3)	Concentration of vapors from diesel fuel as total organic carbon (TOC) over 100mg/m ³ or 15 ppm in engine and rudder rooms				Out of service and correct immediately
	(4)	Concentration of vapors from gasoline fuel as total organic carbon (TOC) over 890mg/m ³ or 300 ppm in engine and rudder rooms				Out of service and correct immediately
			(5)	Lack of ventilation in engine room with permanent crew		Correct immediately and restrict access to affected compartments

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TABULATION OF DEFICIENCIES						REQUIRED ACTION
MAJOR		MODERATE		MINOR		
	(6)	Inoperative or deficient ventilation and fuel pumps emergency switches				Out of service and correct immediately
	(7)	Lack of or deficient ventilation in the lodging/housing area				Out of service and correct immediately
	(8)	Exhaust emissions concentration in the engine room exceeding : <ul style="list-style-type: none"> • 5000 ppm of CO² or • 25 ppm of CO or • 5mg/m³ of suspended particles 				Out of service and correct immediately
	(9)	Inoperative fuel cut-off valve				Out of service and correct immediately
			(10)	Lack of or deficient main or auxiliary bilge pump on vessels over 20 m		Provide an adequate portable submersible pump and correct in 7 days
			(11)	Lack of or deficient main or auxiliary bilge pump on vessels over 7 m but less than 20 m		Provide an adequately sized portable pump
			(12)	Lack of bucket on vessels of less than 7 m		Provide a manual bilge pump
				(13)	Lack or deficient submersible pumps in vessels over 20 m	Correct in 7 days

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TABULATION OF DEFICIENCIES						REQUIRED ACTION
MAJOR		MODERATE		MINOR		
(14)	Lack or deficient fire screen on fuel tank. (gasoline)					Out of service and Correct immediately
		(15)	Lack or deficient fire screen on fuel tank (diesel)			Correct in 5 days
(16)	Inspection and boiler tests are not updated.					Out of service and correct immediately
(17)	Propelling machinery out of service (dual propulsion vessels)					Out of service and correct immediately
(18)	Lack of outboard motor (two motor boats)					Out of service and correct immediately
(19)	Inoperative main steering system.					Out of service and correct immediately
		(20)	Inoperative auxiliary pump			Correct immediately and restrict operation area
		(21)	Loss of FFU steering system			Correct immediately and restrict operation area
		(22)	Loss of NFU steering system			Correct immediately and restrict operation area
(23)	Inoperative rudder angle indicator (vessels over 24 m)					Out of service and correct immediately
				(24)	Inoperative rudder angle indicator (vessels of less than 24 m)	Correct in 15 days
(25)	Inoperative tachometer on bridge.					Out of service and correct immediately
				(26)	Other deficient indicators	Correct in 15 days
(27)	Deficient or inoperative steering system control valves					Out of service and correct immediately

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TABULATION OF DEFICIENCIES						REQUIRED ACTION
MAJOR		MODERATE		MINOR		
(28)	Inoperative generator on tugboats where the main operation systems including, but not limited to: maintenance and are not limited to: controls, communication, alarms, navigation lights, engines, and emergency lights					Out of service and correct immediately
				(29)	Inoperative generator on tugboats where the main operation systems including, but not limited to: maintenance and are not limited to: controls, communication, alarms, navigation lights, engines, and emergency lights	Correct in 30 days
(30)	Inadequate or deficient relief valves in the compressed air systems					Out of service and correct immediately
(31)	Deteriorated or condemned compressed air deposits and containers or with expired inspection.					Out of service and correct immediately
(32)	Inoperative high water level alarms in the bilge in vessels of over 7 m					Out of service and correct immediately

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TABULATION OF DEFICIENCIES						REQUIRED ACTION
MAJOR		MODERATE		MINOR		
	(33)	One of the air compressors is inoperative on floating equipment where the air is used for control, start, and propulsion				Out of service and correct immediately
				(34)	One of the air compressors is inoperative on floating equipment where the air is used only for starting	Correct in 30 days
	(35)	Deficient automatic air pressure switch				Out of service and correct immediately
			(36)	Inoperative winch or windlass		Correct immediately or assign an additional seaman to the crew
	(37)	Excessive filtration at the gland				Out of service and correct immediately
			(38)	Inoperable steering gear control system located at the stern		Correct immediately or not to use the vessel for towing
				(39)	Excessive hydraulic fluid leakage at the winch, capstan or the controls	Correct in 15 days
				(40)	Fuel tank shut off valves are not marked	Correct in 15 days
b.	Hull and structure					
	(1)	Deficient, missing or cracked hatch covers, ventilators and other openings on the hull or deck				Out of service and correct immediately

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TABULATION OF DEFICIENCIES						REQUIRED ACTION
MAJOR		MODERATE		MINOR		
	(2)	Deficient, missing or not fully sealed watertight door				Out of service and correct immediately
			(3)	Deficient or locked external doors.		Correct in 15 days
	(4)	Deficient deck plates (holes, cracks, dents >3") or beyond wear limits (>25%)				Out of service and correct immediately
	(5)	Deficient structure that affects the compartments air tightness (cracked, broken or rusted)				Out of service and correct immediately
	(6)	Deficient or rusty welds or rivets that affect the air tightness of the compartments				Out of service and correct immediately
	(7)	Rusted or worn salt water intake or water penetration				Out of service and correct immediately
	(8)	Worn or rusted openings on the hull				Out of service and correct immediately
	(9)	Thickness or integrity of watertight bulkheads in such poor condition that it affects the water tightness				Out of service and correct immediately
	(10)	Insufficient thickness of plates (>25%), with holes, worn due to corrosion				Out of service and correct immediately

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TABULATION OF DEFICIENCIES						REQUIRED ACTION
MAJOR		MODERATE		MINOR		
(11)	Installation and protection devices for hull openings (access to vessel compartments) excessively rusted or worn					Out of service and correct immediately
(12)	Deficient or insufficient cleats or bits					Out of service and correct immediately
(13)	Deteriorated fender or in a condition that can affect the protection of hull					Out of service and correct immediately
(14)	Lack of chair for the operator (on vessels that cannot navigate without it)					Out of service and correct immediately
				(15)	Lack of chair for the operator (on vessels that can navigate without it)	Correct in 30 days
		(16)	Lack of passenger seats			Correct immediately or restrict the number of passengers
(17)	Lack of non-skid surface on different decks where people walk					Correct immediately or restrict use of the area
(18)	Unmarked bumps, lumps, or level changes					Correct immediately
c.	Electrical					
(1)	Deficient or inoperative disconnection due to current inversion, or protection against phase inversion, or inverted polarity rectifier					Out of service and correct immediately

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TABULATION OF DEFICIENCIES						REQUIRED ACTION
MAJOR		MODERATE		MINOR		
(2)	Deficient physical protection of the distribution board for crew members (rubber mat, rail, or pane)					Out of service and correct immediately
(3)	Deficient cable and electric devices protection and insulation, including external outlets					Out of service and correct immediately
		(4)	Deficient equipment installations or wiring in hazardous locations			Correct immediately or restrict use of the area or lockout the area
(5)	Deficient critical alarms a. CO ² b. Fire c. Main and auxiliary engines d. General alarm					Out of service and correct immediately
				(6)	Deficient protection of lighting fixtures (broken or missing)	Correct in 15 days
				(7)	Exposed conductive parts (connected to the neutral conductor, which is itself directly connected to the ground)	Correct in 15 days
(8)	Severely exposed conductive parts (connected to the neutral conductor, which is itself directly connected to the ground) present in critical systems					Out of service and correct immediately

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TABULATION OF DEFICIENCIES						REQUIRED ACTION
MAJOR		MODERATE		MINOR		
				(9)	Batteries without case or protective cover	Correct in 7 days
				(10)	Condition of the batteries	Correct in 3 days
				(11)	External electric outlets do not comply with Standard 2600SEG-303 (OPXI)	Correct in 15 days
d. Pollution Prevention						
				(1)	MSD (marine sanitary device) not installed	System installation or water retention on board to be sent to tanks on land
				(2)	Inoperative MSD	Correct in 30 days
				(3)	Oily water separator is not installed	System installation or water retention on board to be sent to tanks on land.
				(4)	Inoperative or deficient oily water separator	Correct in 30 days
				(5)	Lack of procedures for oil and oily waste discharge to shore facilities	Correct in 7 days
				(6)	Lack of refueling procedures	Correct in 7 days
				(7)	Lack of proper garbage disposal procedures	Correct in 7 days
				(8)	Lack of MSD operation procedures	Correct in 7 days
	(9)	Lack of or deficient spill prevention devices (SOPEP kit)				Out of service and correct immediately
			(10)	Lack of approved SOPEP manual on board		Correct in 7 days or out of service

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TABULATION OF DEFICIENCIES						REQUIRED ACTION
MAJOR		MODERATE		MINOR		
		(12)	Lack of hydrocarbons logbook on board			Correct in 7 days or leave out of service
				(13)	Lack of garbage collection containers according to Standard 2600SEG-330 (OPXI)	Correct in 15 days
e.	Navigation Lights and Equipment					
		(1)	Inoperative or deficient navigation lights and non-compliance with the Regulation for Navigation in Canal Waters			Correct immediately, restrict operation or restrict to daytime use.
		(2)	Inoperative magnetic compass.			Correct immediately or restrict operation area.
				(3)	Expired magnetic compass calibration or lack of calibration certification	Correct in 15 days
	(4)		Inoperative or defective UHF or VHF radio			Out of service, provide portable radio and correct immediately
		(5)	Inoperative radar			Correct in 15 days
	(6)		Inoperative or defective windshield wiper (s)			Out of service and correct immediately
		(7)	Inoperative or defective emergency lighting			Correct in 7 days
	(8)		Tinted, polarized or deteriorated windows on the bridge (not translucent or transparent)			Out of service and correct immediately
				(8)	Flashlight	Correct in 5 days
		(9)	Inoperative AIS			Correct in 15 days
f.	Hazardous materials storage					

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TABULATION OF DEFICIENCIES						REQUIRED ACTION
MAJOR		MODERATE		MINOR		
	(1) Spilled hazardous materials					Out of service and correct immediately
	(2) Unsafe storage of hazardous materials (immediate danger)					Out of service and correct immediately
	(3) Deficient paint locker (immediate danger)					Out of service and correct immediately

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4. DOCUMENTATION

TABULATION OF DEFICIENCIES						REQUIRED ACTION
MAJOR		MODERATE		MINOR		
a.	Inspection Certificate					
	(1)	Expired annual inspection				Out of service and correct immediately
	(2)	Inspection certification not on board				Out of service and correct immediately
	(3)	Expired careening date (periodic inspection)				Leave out of service, request for an extension from OPXI-S and perform a subaquatic inspection within a period no longer than 3 days.
				(4)	Deteriorated or illegible inspection certificate	Correct in 7 days. Request duplicate from OPXI-S
b.	Navigation License					
				(1)	Expired	Present evidence of renovation process in 7 days
				(2)	Not on board	Correct in 7 days
				(3)	Deteriorated or illegible	Correct in 7 days
c.	Radio Station License					
				(1)	Expired	Present evidence of renovation process in 7 days
				(2)	Not on board	Correct in 7 days
				(3)	Deteriorated or illegible	Correct in 7 days
d.	Magnetic Compass Calibration Certificate					
				(1)	Expired	Correct in 15 days
				(2)	Deteriorated or illegible	Correct in 15 days
e.	Other Documents					
	(1)	Lack of vessel logbook				Correct immediately or leave out of service
	(2)	Captain, operator or Engineer without a license or license is expired				Out of service and relieve crew

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TABULATION OF DEFICIENCIES						REQUIRED ACTION
MAJOR		MODERATE		MINOR		
	(3) Lack of safety and fire prevention plan (vessels over 24m)					Correct immediately
				(4)	Safety and fire prevention plan is not updated (vessels over 24m)	Correct in 7 days
				(5)	Safety and fire prevention plan is not updated is deteriorated or illegible (vessels over 24m)	Correct in 7 days
				(6)	The procedure for the man overboard recovery equipment for the water recovery team is not visible	Correct in 7 days
f.						