



MARITIME SAFETY STANDARD MAJOR AND MINOR DEFICIENCIES IN FLOATING EQUIPMENT

1. LIFESAIVING EQUIPMENT

MAJOR		MINOR	REQUIRED ACTION
a. LIFE JACKETS			
	(1) Inaccessible		Correct immediately or take out of service
	(2) Inadequate quantity		Restrict number of persons on board
	(3) Inadequate type		Restrict number of persons on board
	(4) Lack of reflective tape		Restrict number of persons on board
	(5) Lack of hooks		Restrict number of persons on board
	(6) Inadequate condition (broken, faded, deformed)		Restrict number of persons on board
		(7) Incorrect name or without name.	Correct, mark with correct name
		(8) Inadequate storage	Correct
		(9) Location not marked	Correct, post signs in area
b. LIFE RING BUOYS			
	(1) Inadequate quantity		Correct immediately or take out of service
	(2) Lack of floating stem		Correct
	(3) Lack of lighting fixtures		Correct or restrict use to daytime only.



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MAJOR		MINOR	REQUIRED ACTION
	(4) Lack of reflective tape		Correct or restrict use to daytime only.
		(5) Inadequate diameter	Replace in term not greater than the time of correction, established in the Floating Equipment Program General Standards (2600ESS-309).
		(6) Incorrect name or without name	Correct, mark with correct name
		(7) Advanced deterioration condition-	Replace in term not greater than the time of correction established in Standard 2600ESS-309.
		(8) Inadequate mounting	Correct
c. BUOYANT SURVIVAL APPARATUS			
	(1) For not having		Install immediately or take out of service.
	(2) Not of the free- <i>flotation</i> position		Correct or take out of service
	(3) Inadequate quantity		Correct or restrict number of persons on board.
	(4) Lack of reflective tape		Correct or restrict to daytime use only.
		(5) Lack of floating stem	Correct
		(6) Deteriorated	Replace in term not greater than the time of correction established in the Standard 2600ESS-309
		(7) Incorrect name	Correct, mark with correct name
d. SIGNS			



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MAJOR		MINOR	REQUIRED ACTION
	(1) Lack of red flag for emergencies		Correct immediately
	(2) Lack of lantern that provides red light.		Correct or restrict operation to daytime use.
			(3) Lack of bell
e. RESCUE EQUIPMENT			
	(1) Lack of recovery equipment (stretcher-ladder) or equipment is inoperative (launches).		Correct or use metallic ladder and hook
	(2) General alarm system not working.		Correct immediately or take out of service.
	(3) Lack of SCBA (Self-Contained Breathing Apparatus).		Correct immediately or take out of service.
		(4) General alarm system deficient, but operational.	Correct
		(5) Lack of spare cylinders for SCBA. .	Replace in term not greater than time of correction established in Standard 2600ESS-309.
		(6) Lack of recovery equipment stretcher-ladder (towboats.)	Replace with ladder and boat hook in term not greater than time of correction established in Standard 2600ESS-309.
		(7) Recovery equipment stretcher-ladder inoperative (towboats)	Correct or remove and replace with ladder and boat hook.
		(8) Lack of procedures for using recovery equipment.	Correct



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MAJOR	MINOR	REQUIRED ACTION
	(9) Lack of metallic ladder and hook.	Correct

f. OTHERS		
	(1) Lack of station bill.	Correct or take out of service.
	(2) Emergency exit with obstacles or locked.	Correct immediately or restrict access to the compartment.
	(3) Insufficient means of evacuation.	Restrict access to limited compartments.
	(4) Lack of oars or paddles.	Correct
	(5) Lack of anchor and anchor gears	Correct immediately or take out of service.
		(6) Incorrect station bill. Correct
		(7) Emergency exit not marked. Correct
		(8) There is not or the damage control box is incomplete. Correct
		(9) Lack of boat hook. Correct
		(10) It does not have the Small Crafts Operator Manual or the Tugboat Operations Handbook or the Maritime Regulations for the Operation of the Panama Canal. Correct – place on board



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	(11) Lack of first-aid kit or incomplete	Correct
	(12) Deteriorated safety gangway handles.	Correct
	(13) Lack of name or number.	Correct in next preventive maintenance.

2. FIREFIGHTING EQUIPMENT

MAJOR		MINOR	REQUIRED ACTION
a. FIRE EXTINGUISHERS			
	(1) Lack of quantity or size required.		Correct or take out of service.
	(2) Lack of seal.		Remove and replace immediately.
	(3) Not accessible		Correct immediately.
	(4) Lack of pressure or of low weight.		Remove and replace immediately.
	(5) Bad conditions		Remove and replace immediately.
**MRE: Emergency and Contingency Management Section	(6) Not mounted	Correct	
	(7) MRE** inspection or test not up to date.	Correct	
	(8) Not located where indicated.	Correct	
	(9) Incorrect color coding.	Correct	
b. FIXED FIRE EXTINGUISHING SYSTEM			



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MAJOR		MINOR	REQUIRED ACTION
	(1) Inoperative		Take out of service.
	(2) Lack of cylinder.		Correct or take out of service.
	(3) Deficiencies in piping and hose system.		Take out of service.
	(4) Advanced cylinder corrosion or on other parts of the system.		Remove and replace immediately or take out of service.
	(5) System hydrostatic test not updated.		Conduct test (In effect for 12 years).
		(6) Lack of instructions.	Correct
		(7) System and cylinder corrosion.	Correct in next preventive maintenance.
		(8) Release valve painted.	Correct
		(9) Inspection or cylinder weight not up to date.	Correct in next preventive maintenance.
c. MAIN FIREFIGHTING SYSTEM			
	(1) Pump out of service.		Restrict firefighting service.
	(2) Pump <50 psi.		<100 psi - restrict use for firefighting aboard.
	(3) Inadequate piping.		Correct in next preventive maintenance– Restrict firefighting service.
	(4) Fire hydrant barrel inoperative.		Correct in next preventive maintenance– Restrict firefighting service.
	(5) Lack of foam.		Restrict firefighting service.



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MAJOR		MINOR	REQUIRED ACTION
	(6) Deficient foam proportioner valve.		Coordinate with MRE action to be taken.
	(7) Pump >100<150 psi.		Coordinate with MRE action to be taken.
		(8) Pump with leakage.	Correct
		(9) Deficient pump.	Correct or restrict use for firefighting aboard.
		(10) Deficient piping.	Correct in next preventive maintenance.
		(11) Fire hydrant not numbered.	Correct
		(12) Fire hydrant without tool.	Correct
		(13) Piping with incorrect color coding.	Correct
		(14) Stern fire hydrant barrel inoperative.	Coordinate with MRE action to be taken.
		(15) Foam system corrosion.	Correct in next preventive maintenance.
		(16) Lack of axes.	Place on board the required amount.
d. MAIN SYSTEM AGAINST INTERNAL FIRE			
	(1) General service pump inoperative and fire pump inoperative or with a pressure <50 psi through two simultaneous discharges.		Take out of service.



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3. SEAWORTHINESS

MAJOR	MINOR	ACTION REQUIRED
a. MACHINERY		
(1) Ventilation and ignition, inoperative nailing (gasoline).		Correct immediately or take out of service.
(2) Lack of operating procedures in equipment using gasoline as fuel.		Correct immediately or take out of service.
(3) Deficient ventilation in engine room or fuel tank compartment.		Correct and restrict access to limited compartments or take out of service.
(4) Lack of ventilation in engine room with permanent crew.		Correct and restrict access to limited compartments or take out of service.
(5) Inoperative ventilation and fuel pumps emergency interrupters.		Correct or take out of service.
(6) Combustion gas leak in engine room with permanent crew.		Correct immediately and restrict access to limited compartments or take out of service.
(7) Inoperative emergency fuel shutoff valves.		Correct immediately or take out of service.
(8) Lack or deficiency in main or auxiliary bilge pump in launches.		Correct, remove, and replace or take out of service.
		(9) Lack or deficiency of submersible pump.
(10) Lack or deficiency of flame arrester wire cloth in fuel tank (gasoline).		Correct immediately or take out of service.



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MAJOR		MINOR	ACTION REQUIRED
(11) Inspection and boiler tests are not up to date.			Schedule inspection with Marine Safety Branch (ESSM).
(12) One main propeller machine out of service (dual propulsion vessels).			Take out of service.
(13) Lack of one outboard motor (Two-motor launches)			Take out of service.
(14) Main steering device inoperative.			Correct immediately or take out of service.
(15) Auxiliary steering device inoperative.			Correct. Restrict area of operation.
(16) Inoperative rudder angle or engine revolution indicators.			Correct immediately or take out of service.
	(17) Inoperative rudder angle or engine revolution indicators. (launches)	Correct in next preventive maintenance.	
(18) Steering device control valves are deficient or inoperative.			Correct immediately or take out of service.
(19) Inoperative generator in towboats.			Correct immediately or take out of service.
(20) Safety or relief valves not appropriate or not opening at indicated pressure.			Correct immediately or take out of service.
(21) Compressed air deposits or containers deteriorated or condemned.			Correct immediately or take out of service.
(22) High water level alarms in the bilge inoperative.			Correct



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MAJOR		MINOR	ACTION REQUIRED
	(23) One of the two air compressors inoperative.		Correct
	(24) Deficiency in air pressure automatic interrupter.		Repair as soon as possible. Operate manually under the machinist's supervision.
	(25) Inoperative winch.		Provide an additional seaman to the required crew.
	(26) Excessive packing gland leak.		Correct immediately or take out of service.
	(27) Stern steering device control inoperative.		Correct and do not assign for tug operations.
		(28) Lack or deficiency in fire arrester wire cloth in fuel tank (diesel).	Correct
		(29) Hydraulic oil excessive filtrations in the winch or in controls.	Correct in next preventive maintenance.
		(30) Fuel shutoff valves lack sign.	Correct in next preventive maintenance.
b. HULL AND STRUCTURE			
	(1) Hatch covers, air inlets, ventilators, other openings in the hull or deck, deficient or removed.		Take out of service.
	(2) Watertight doors removed or deficient.		Take out of service.
	(3) Deficient hull plates (holes, cracks, dents (>3"), corrosion out of limits.		Take out of service.



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MAJOR		MINOR	ACTION REQUIRED
	(4) Deficient structure that affects compartments watertightness (cracked, broken, bended, rusted).		Take out of service.
	(5) Deficient or rusted welding or rivets that affect compartments watertightness.		Take out of service.
	(6) Excessively rusted or worn out sea water intake.		Take out of service.
	(7) Excessively rusted or worn out installations and devices for the protection of hull openings.		Take out of service.
	(8) Tight bulkheads thickness or integrity deficient in such a way that affects watertightness of the equipment.		Take out of service.
	(9) Deck plates with holes, insufficient thickness (<25%), worn by corrosion.		Take out of service.
	(10) Lack of bitt or cleat or in bad conditions.		Correct in next preventive maintenance.
	(11) Lack of hull guard or in conditions affecting seaworthiness.		Correct
	(12) Lack of seats for passengers.		Restrict number of passengers on board.
c. ELECTRICAL			
	(1) Disconnection through inversion of current; protection against phase reversal or inverted polarity rectifier deficient or inoperative.		Take out of service.



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	(2) Deficient or missing personal physical protection from distribution switchboard (rubber mesh, handrail, panel)		Take out of service.
	(3) Cables and electrical devices protection and isolation deficient.		Take out of service.
	(4) Equipment installations or electrical cables in dangerous spaces, or deficient.		Restrict use of the area or lock out power to the area.
	(5) Deficient critical alarms: a. CO2 b. Fire		Finish the work in process and correct when reaching port.
		(6) Deficient lighting globes and guards.	Correct
		(7) Electrical grounds are present. electrical ground fault.	Correct
	(8) Severe electrical grounds are present in critical systems (electrical leakage to ground).		Take out of service.
d. CONTAMINATION PREVENTION			
		(1) MSD (marine sanitary device) not installed	Plan installation during maintenance program.
		(2) MSD inoperative.	Correct in next preventive maintenance.
		(3) Oil mixture separator not installed.	Plan installation during maintenance program.



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MAJOR		MINOR	ACTION REQUIRED
		(4) Oil mixture separator inoperative or deficient.	Correct in next preventive maintenance.
		(5) Lack of procedures to discharge hydrocarbons and oil residues to facilities in land.	Correct and implement as soon as possible.
		(6) Lack of procedures for fueling.	Correct and implement as soon as possible.
		(7) Lack of procedures for adequate garbage disposal.	Correct and implement as soon as possible.
		(8) Spill prevention devices (scupper plugs, etc.) not available or deficient.	Correct in next preventive maintenance.
		(9) Lack of procedures for the operation of MSD.	Correct and implement as soon as possible
e. NAVIGATION LIGHTS AND EQUIPMENT			
	(1) Navigation light inoperative or deficient and does not comply with Regulations for Navigation in Canal Waters.		Correct immediately or take out of service (if operating during the night) or restrict service to daytime use.
	(2) Magnetic compass inoperative or deficient.		Correct or restrict area of operation.
	(3) Whistle or device capable of producing acoustic signals, inoperative or defective.		Correct immediately or take out of service.



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	(4) UHF or VHF radio inoperative or defective.		Provide portable radio, correct as soon as possible, or take out of service.
		(5) Radar inoperative	Correct
		(6) Windshield wiper inoperative or defective.	Correct
		(7) Emergency lighting inoperative or defective.	Correct
f. HAZARDOUS MATERIAL STORAGE			
	(1) Hazardous materials spill.		Take out of service and correct immediately.
	(2) Hazardous materials unsafe storage (imminent danger)		Correct immediately.
	(3) Paint storeroom deficient (ventilation, firefighting protection, etc.) causing imminent danger.		Correct immediately.