Safety Equipment Requirements

Note: Organizing Authorities may add or delete items based on the conditions of their specific races.

Effective Date: January 1, 2017, revision 2017.0

Section					
Name	#	Requirement	Ocean	Coastal	Nearshore
	1	Ocean: Long distance races, well offshore, where rescue may be		{	
Definition	1.0.1	delayed	x		
		Coastal: Races not far removed from shorelines, where rescue is		 	1
Definition	1.0.2	likely to be quickly available		х	
		Nearshore: Races primarily sailed during the day, close to shore, in		}	
Definition	1.0.3	relatively protected waters.			х
				-}	}
		The Safety Equipment Requirements establish uniform minimum			
		equipment and training standards for a variety of boats racing in			
		differing conditions. These regulations do not replace, but rather			
		supplement, the requirements of applicable local or national			
		authority for boating, the Racing Rules of Sailing, the rules of Class			
Overall	1.1	Associations and any applicable rating rules.	x	х	х
		The safety of a boat and her crew is the sole and inescapable			
		responsibility of the "person in charge", as per RRS 46, who shall			
		ensure that the boat is seaworthy and manned by an experienced			
		crew with sufficient ability and experience to face bad weather.			
		S/he shall be satisfied as to the soundness of hull, spars, rigging, sails			
		and all gear. S/he shall ensure that all safety equipment is at all			
Overall:		times properly maintained and safely stowed and that the crew			
Responsibility	1.2	knows where it is kept and how it is to be used.	x	х	х
responsibility	1.2	who was where it is kept and now it is to be ased.	^		^
		A heat may be inspected at any time by an equipment inspector or			
		A boat may be inspected at any time by an equipment inspector or measurer appointed for the event. If she does not comply with			
		these regulations, her entry may be rejected or she will be subject to			
Overall:		a protest filed by the RC. A Violation of the Safety Equipment			
Inspections	1.3	Requirements may result in a penalty other than disqualification.	v		v
півреснопѕ	1.5	Requirements may result in a penalty other than disqualification.	Х	X	Х
		All and the second second about a least a leas			
		All equipment required shall function properly, be regularly checked,			
Overall.		cleaned and serviced, and be of a type, size and capacity suitable for			
Overall:		the intended use and size of the boat and the size of the crew. This			
Equipment and	1.4	equipment shall be readily accessible while underway and, when not	v		.,
Knowledge	1.4	in use, stored in such a way that deterioration is minimized.	Х	X	Х
Overall: Secure		A boat's heavy items such as batteries, stoves, toolboxes, anchors,			
	1.5	chain and internal ballast shall be secured.	v		v
Storage	1.5	Chain and internal ballast shall be secured.	Х	Х	Х
		A boat shall be strongly built, watertight and, particularly with			
		regard to hulls, decks and cabin trunks, capable of withstanding solid			
		water and knockdowns. A boat shall be properly rigged and			
Overall:		ballasted, be fully seaworthy and shall meet the standards set forth			
Strength of	1.6	herein. A boat's shrouds and at least one forestay shall remain			
Build	1.6	attached at all times.	X	Х	}
. "		A boat's hull, including, deck, coach roof, windows, hatches and all			
Overall:		other parts, shall form an integral watertight unit, and any openings		}	
Watertight		in it shall be capable of being immediately secured to maintain this		}	}
Integrity	1.7	integrity.	X	X	Х
Overall:		Hull Construction Standards - Scantlings with plan review approval -			
Scantlings	1.8	(See Appendix)	Х	}	}

Section		Paguiramant	Occan	Constal	Nooroboro
Name	#	Requirement	Ocean	Coastal	Nearshore
Hull and		A boat's companionway(s) shall be capable of being blocked off to			
Structure: Hull		main deck level (sheerline). The method of blocking should be solid,			
Openings	2.1.1	watertight, and rigidly secured, if not permanent.	х	х	
				<u> </u>	
Hull and					
Structure: Hull		A boat's hatch boards, whether or not in position in the hatchway,			
Openings	2.1.2	shall be secured in a way that prevents their being lost overboard.	Х	Х	
Hull and		A boat's entire cockpit shall be solid, watertight, strongly fastened			
Structure:		and/or sealed. Weather-tight seat hatches are acceptable only if			
Cockpit	2.1.3	capable of being secured when closed.	х	х	
		A boat's cockpit drains shall be capable of draining six inches of		<u> </u>	
Hull and		water in 5 minutes. One square inch (645mm2) of effective drain			
Structure:		per eight square feet (0.743m2) of cockpit sole will meet this			
Cockpit	2.1.4	requirement.	х	х	
		A boat's maximum cockpit volume for cockpits not open to the sea,			
		including any compartments capable of flooding, to lowest points of			
Hull and		coaming over which water can adequately escape, shall not exceed			
Structure:		0.06 x LOA x Max. Beam x Freeboard aft. The cockpit sole shall be			
Cockpit	2.1.5.1	at least 0.02 x LOA above LWL.	Х		
		A boat's maximum cockpit volume for cockpits not open to the sea,			
		including any compartments capable of flooding, to lowest points of coaming over which water can adequately escape, shall not exceed			
		0.08 x LOA x Max. Beam x Freeboard aft. The cockpit sole shall be			
	2.1.5.2	at least 0.02 x LOA above LWL.		х	
	2.1.3.2	at least 0.02 x LOA above LWL.		^	
		A boat's through-hull openings below the waterline shall be			
Hull and		equipped with sea cocks or valves, except for integral deck			
Structure:		scuppers, speed transducers, depth finder transducers and the like;			
Through Hulls	2.1.6	however a means of closing such openings shall be provided.	Х	х	
Hull and					
Structure:		The boat must have a stability index greater than or equal to 115, or			
Stability	2.2.1	meet the requirements of ISO 12217-2A	Х	ļ	
Hull and					
Structure:		The boat must have a stability index greater than or equal to 103 or			
Stability	2.2.2	meet the requirements of ISO 12217-2B.		Х	
Hull and		A heat with may calle are variable hallost (water or carting lead)			
Structure: Stability	2.2.3	A boat with moveable or variable ballast (water or canting keel) shall comply with the requirements of Appendix K.	v	v	v
	2.2.3	sital compty with the requirements of Appendix K.	Х	Х	Х
Hull and Structure:					
Accommodatio					
ns	2.3.1	A boat shall be equipped with a head or a fitted bucket.	х		
Hull and				<u>}</u>	
Structure:					
Accommodatio		A boat shall have bunks sufficient to accommodate the off watch			
ns	2.3.2	crew.	х		
Hull and				}	·····
Structure:					
Accommodatio					
ns	2.3.3	A boat shall have a stove with a fuel shutoff.	Х		
Hull and					
Structure:		Vessels shall carry water as required by the Notice of Race such that			
Accommodatio		a single failure of a tank or delivery system will not allow the loss of			
ns	2.3.4	more than half the water.	Х		{

Section					
Name	#	Requirement	Ocean	Coastal	Nearshore
Hull and					
Structure:					
Accommodatio					
ns	2.3.5	A boat shall have adequate hand holds below decks.	Х		
Hull and		A boat's deck including the headstay shall be surrounded by a			
Structure:		suitably strong enclosure, typically consisting of lifelines and pulpits,			
Lifelines	2.4.1	meeting the requirements in 2.4.2 to 2.4.8.	X	Х	
Hull and					
Structure:					
Lifelines	2.4.2	A boat's stanchion and pulpit bases shall be within the working deck.	Х	Х	ļ
Hull and		Bow pulpits may be open, but the opening between the vertical			
Structure:	2.4.2	portion of stanchion pulpit and any part of the boat shall not			
Lifelines	2.4.3	exceed 14.2" (360mm).	Х	Х	
Hull and		Lifelines shall be-uncoated stainless steel wire. A multipart-lashing			
Structure:		segment not to exceed 4" per end termination for the purpose of			
Lifelines	2.4.4	attaching lifelines to pulpits is allowed. Lifelines shall be taut.	х	х	
Lifelliles	2.4.4	uttucining iljennes to puipits is unowed. Eljennes shan be taat.	^	}	
		Lifeline deflection shall not exceed the following: a) When a			
		deflecting force of 9 lbs (40N) is applied to a lifeline midway			
		between supports of an upper or single lifeline, the lifeline shall not			
		deflect more than 2" (50mm). This measurement shall be taken at			
		the widest span between supports that are aft of the mast. b)			
Hull and		When a deflecting force of 9 lbs (40N) is applied midway between			
Structure:		supports of an intermediate lifeline of all spans that are aft of the mast, deflection shall not exceed 5" (120mm) from a straight line			
Lifelines	2.4.4.1	between the stanchions.	v	х	
Hull and	2.4.4.1	between the stantinons.	Х	^	
Structure:		The maximum spacing between lifeline supports (e.g. stanchions			
Lifelines	2.4.5	and pulpits) shall be 87" (2.2m).	x	х	
Lifelifies	2.4.3	una papito) shari de 67 (2.2m).	^	······	
		Boats under 30' (9.14m) shall have at least one lifeline with 18"			
Hull and		(457mm) minimum height above deck, and a maximum vertical gap			
Structure:		of 18" (457mm). Taller heights will require a second lifeline. The			
Lifelines	2.4.6	minimum diameter shall be 1/8" (3mm).	х	х	
	<u> </u>				
		Boats 30' and over (9.14m) shall have at least two lifelines with 24"			
Hull and		(762mm) minimum height above deck, and a maximum vertical gap			
Structure:		of 15" (381mm). The minimum diameter will be 5/32" (4mm) for			
Lifelines	2.4.7	boats to 43' (13.1m) and 3/16" (5mm) for boats over 43' (13.1m).	х	х	
		Toe rails shall be fitted around the foredeck from the base of the			
		mast with a minimum height of 3/4" (18mm) for boats under 30'			
Hull and		(9.14m) and 1" (25mm) for boats over 30'. An additional installed			
Structure:		lifeline that is 1-2" (25-51mm) above the deck will satisfy this			
Lifelines	2.4.8	requirement for boats without toerails.	Х	х	
		Trimarans are exempted from the lifeline requirement where there			
		is a trampoline outboard of the main hull, except that a lifeline must			
		run from the top of a bow pulpit to the forward crossbeam at the			
		outboard edge of the bow net or foredeck. Catamarans with			
Hull and		trampoline nets between the hulls are exempted from the lifeline			
Structure:		requirement. All catamarans are exempted from the need for			
Lifelines	2.4.9	pulpits and lifelines across the bow.	Х	Х	

Section Name	#	Requirement	Ocean	Coastal	Nearshore
		A boat shall have a permanently installed manual bilge pump of at			
		least a 10 GPM (37.8 liter per minute) capacity and which is			
		operable from on deck with the cabin closed with the discharge not			
		dependent on an open hatch. Unless permanently attached to the			
Hull and		pump, the bilge pump handle shall be securely attached to the boat		}	
Structure:		in its vicinity via a lanyard or catch. A bilge pump discharge shall not			
Dewatering		be connected to a cockpit drain. The bilge pump shall not discharge			}
pumps	2.5.1	into a cockpit unless that cockpit opens aft to the sea.	x	х	
Hull and	2.3.1	into a compt unless that compt opens are to the sea.		} <u>^</u>	<u>}</u>
Structure:		A boat shall have a second permanently installed manual bilge pump		}	
Dewatering		of at least 10 GPM (37.8 liter per minute) capacity, operable from		}	
pumps	2.5.2	below deck, meeting the same criteria as above.	x		
Hull and	\			}	}
Structure:					
Dewatering		A boat shall have a manual bilge pump of at least a 10 GPM (37.8		}	
pumps	2.5.3	liter per minute) capacity.		{	х
r				 	<u> </u>
Hull and				}	
Structure: Mast		A boat shall have the heel of a keel-stepped mast securely fastened		}	
and Rigging	2.6	to the mast step or adjoining structure.	x	}	
~ ····∂∂··· ·'ō	. = : ў			}	}
Hull and		A boat shall have a mechanical propulsion system that is quickly		}	
Structure:		available and capable of driving the boat at a minimum speed in		}	
Mechanical		knots equivalent to the square root of LWL in feet (1.81 times the		{	
Propulsion	2.7.1	square root of the waterline in meters) for 10 hours.	x	}	
ropulsion	2.7.1	square root of the waterine in meters, for 10 hours.		}	}
Hull and		A boat shall have a mechanical propulsion system that is quickly			
Structure:		available and capable of driving the boat at a minimum speed in		}	
Mechanical		knots equivalent to the square root of LWL in feet (1.8 times the			
Propulsion	2.7.2	square root of the waterline in meters) for 4 hours.		х	
Hull and		square root of the waterine in inecess, for 1 hours.		} <u>^</u>	}
Structure:				}	
Mechanical		The boat's engine and generator installation (if so equipped) must		}	
Propulsion	2.7.3	conform to ABYC, ISO, or U.S. Coast Guard standards.	Y	v	
Поравлон	2.7.5	comonn to Abre, 150, or 0.5. coast duard standards.	^	^	
		Each crewmember shall have a life jacket that provides at least		{	
		33.7lbs (150N) of buoyancy, intended to be worn over the shoulders			
		(no belt pack), meeting either U.S. Coast Guard or ISO		}	
		specifications. Alternatively, each crewmember shall have an			
Safety		inherently buoyant off-shore life jacket that provides at least 22lbs			
Equipment:		(100N) of buoyancy meeting either U.S. Coast Guard or ISO		{	
Personal	3.1.1	specifications.	x	х	
	3.1.1	:	^	^	}
		Life jackets shall be equipped with crotch or leg straps, a			
		whistle, a waterproof light, be fitted with marine-grade		}	
		retro-reflective material, and be clearly marked with the			
Safety		boat's or wearer's name, and be compatible with the			
Equipment:		wearer's safety harness. If the life jacket is inflatable, it		}	
Personal	3.1.2	shall be regularly checked for air retention.	Χ	Х	
Cofoty		Each crewmember shall have a life jacket intended for small boat		}	}
Safety		sailing or other active boating. Each such life jacket shall be USCG,		}	
Equipment:	2.4.2	ISO, or applicable government approved or shall meet the ocean		{	
Personal	3.1.3	requirement of 3.1.1.		 	Х
		Each crewmember shall have a safety harness and compatible		}	
		safety tether not more than 6'7" (2m) long with a minimum tensile		{	
Safety		strength of 4500 lb. (20kN). The tether shall have a snap hook at its			
Equipment:		far end and a means to quickly disconnect the tether at the chest		}	
Personal	3.1.4	end.	Х	Х	}

Section					
Name	#	Requirement	Ocean	Coastal	Nearshore
		A boat shall carry jacklines with a breaking strength of at least 4500			
Safety		lb. (20kN) which allow the crew to reach all points on deck,			
Equipment:		connected to similarly strong attachment points, in place while			
Deck Safety	3.2.1	racing.	Х	х	
Safety		A boat shall have adequate clipping points or jacklines that allow			
Equipment:		the crew to clip on before coming on deck and unclip after going			
Deck Safety	3.2.2	below.	Х		
Safety	}				1
Equipment:		Multihulls must have jacklines or attachment points that are			
Deck Safety	3.2.3	accessible when the vessel is inverted.	х	х	
······	<u> </u>			}	<u> </u>
Safety		A boat racing between sunset and sunrise shall carry navigation			
Equipment:		lights that meet U. S. Coast Guard or applicable government			
Navigation	3	requirements mounted so that they will not be obscured by the sails			
Lights	3.3.1	nor be located below deck level.	х	х	х
Safety	3.3.1	A boat shall have a second set of navigation lights that comply with			<u> </u>
Equipment:	3	US Coast Guard or applicable government requirements and which			
Navigation		can be connected to a different power source than the primary			
~	222	· · · · · · · · · · · · · · · · · · ·			
Lights	3.3.2	lights.	Х	·	
Safety					
Equipment: Fire		A boat shall carry fire extinguisher(s) that meets U.S. Coast Guard or			
Extinguishers	3.4	applicable government requirements, when applicable.	Х	Х	х
Safety					
Equipment:					
Sound					
Producing	1	A boat shall carry-sound-making devices that meets U.S. Coast			
Equipment	3.5	Guard or applicable government requirements, when applicable.	Х	х	х
			••••••••		
Safety					
Equipment:					
Visual Distress		A boat shall carry two SOLAS orange smoke flares not older than			
Signals	3.6.1	the expiration date.	х		
	} }				1
Safety					
Equipment:					
Visual Distress		A boat shall carry one SOLAS orange smoke flares not older than the			
Signals	3.6.2	expiration date.		х	
0.6.10.5	3.0.2	expire tion duce.		} <u>^</u>	<u> </u>
Safety					
Equipment:					
Visual Distress					
Signals	3.6.3	The requirement for SOLAS parachute flares has been removed.	х	}	
Signais	3.0.3	The requirement for 30LAS parachate flures has been removed.		}	ļ
Cafaty				}	}
Safety				}	
Equipment:					
Visual Distress	2.6.4	The manufacture of fee COLAG constitute floor is a feet of			
Signals	3.6.4	The requirement for SOLAS parachute flares has been removed.		Х	}
Safety				}	}
Equipment:				}	
Visual Distress		A boat shall carry four SOLAS red hand flares not older than the		}	
Signals	3.6.5	expiration date.	х		
Safety					
	ş			}	1
Equipment:	§	•		5	5
Equipment: Visual Distress		A boat shall carry <i>three</i> SOLAS red hand flares not older than the			

Section Name	#	Requirement	Ocean	Coastal	Nearshore
Train 0	#	i i i i i i i i i i i i i i i i i i i	Cocum	Godolai	recuronore
Safety					
Equipment:		A boat shall carry U.S. Coast Guard (or applicable government			
Visual Distress		entity) flares meeting day-night requirements not older than the			
Signals	3.6.4	expiration date.			х
Safety					
Equipment:					
Visual Distress		Boat flares stored inside of life rafts may not be used to satisfy the			
Signals	3.6.5	flare requirement.	х	х	
DIBITATS	3.0.3	nare requirement.		^	
Safety		A boat shall carry a Lifesling or equivalent man overboard rescue			
Equipment:		device equipped with a self igniting light stored on deck and ready			
Man Overboard	3.7.1	for immediate use.	х	х	
		A boat shall have a man overboard pole and flag, with a lifebuoy, a			
		self-igniting light, a whistle, and a drogue attached. A self-inflating			
		Man Overboard Module, Dan Buoy or similar device will satisfy this			
		requirement. Self-inflating apparatus shall be tested and serviced in			
Safety		accordance with the manufacturer's specifications. These items			
Equipment:		shall be stored on deck, ready for immediate use, and affixed in a			
Man Overboard	3.7.2	manner that allows for a "quick release".	Х	Х	
Safety		A boat shall have a throwing sock-type heaving line of 50' (15m) or			
Equipment:		greater of floating polypropylene line readily accessible to the			
Man Overboard	3.7.3	cockpit.	x	х	х
TVIAIT OVEL SOUTA	. 3.7.3				
Safety		A boat shall carry a Coast Guard or applicable government approved			
Equipment:		"throwable device". If the device carried under 3.7.1 or 3.7.2			
Man Overboard	3.7.4	satisfies this requirement, then no additional device is needed.	Х	х	Х
C · C · I		A boat shall have a permanently installed 25-watt VHF radio			
Safety		connected to a masthead antenna by a co-axial feeder cable with			
Equipment:		no more than a 40% power loss. Such radio shall have DSC			
Emergency		capability, have an antenna of at least 15" (381mm) in length, be			
Communication	3	connected to or have an internal GPS, and have the assigned MMSI			
Sofot	3.8.1	number (unique to the boat) programed into the VHF.	Х	Х	
Safety Equipment:					
Emergency		A boat shall have a watertight handheld VHF radio or a handheld			
Communication		VHF radio with waterproof cover. This radio shall have DSC/GPS			
s	3.8.2	capability with an MMSI number properly registered to the vessel.	х	х	х
Safety	,			† <u>-</u> -	<u></u>
Equipment:					
Emergency		A boat shall have an emergency VHF antenna with sufficient coax to			
Communication		reach the deck, and have a minimum antenna length of 15"			
S	3.8.3	(381mm).	х		
Safety		All boats shall have an AIS Transponder, sharing a masthead VHF			
Equipment:		antenna via a low loss AIS antenna splitter. An acceptable			
Emergency		alternative is a dedicated AIS antenna that is a minimum of 0.9			
Communication		meters long, mounted with its base at least 3 meters above the			
S	3.9	water, and fed with coax that has a maximum 40% power loss.	Х	}	}
Safety					
Equipment:					
Emergency					
Communication	3	A boat shall have a method of receiving weather information in			
S	3.13	addition to the fixed mount and hand held VHF radio.	X	<u> </u>	1

Section			_		
Name	#	Requirement	Ocean	Coastal	Nearshore
Safety					
Equipment:					
Emergency					
Communication					
S	3.14	A boat shall carry a GPS receiver.	Х	Х	
Safety					
Equipment:					
Emergency		A boat shall carry an electronic means to record the position of a			
Communication	2.45	man overboard within ten seconds. This may be the same			
S	3.15	instrument listed in 3.14.	Х	Х	
Safety					
Equipment:	}				
Emergency		A hard della constant EDIDD that is a constant to the			
Communication	2 1 (1	A boat shall carry a 406MHz EPIRB that is properly registered to the	.,		
S	3.16.1	boat. This device shall be equipped with an internal GPS.	Х		
Safety		A boat shall carry either a 406MHz EPIRB which is properly			
Equipment:	}	registered to the boat, or a floating 406MHz Personal Locator			
Emergency Communication		Beacon, registered to the owner with a notation in the registration that it is aboard the boat. This device shall be equipped with an			
communication	3.16.2	internal GPS.		v	
Safety	J.1U.Z	internal OFS.		Х	
Equipment:		A boat shall have a knotmeter and/or distance-measuring			
Navigation	3.17	instrument.	х		
Safety	3.17	instrument.	^	 	
Equipment:		A boat shall have a permanently installed depth sounder that can			
Navigation	3.18	measure to depths of at least 200 ft. (61m).	х	х	
Safety	0.10	A boat shall have a permanently mounted magnetic compass			·
Equipment:		independent of the boat's electrical system suitable for steering at			
Navigation	3.19.1	sea.	х	х	x
Safety				·	1
Equipment:		A boat shall have a second magnetic compass suitable for steering			
Navigation	3.19.2	at sea which may be handheld.	Х		
Safety					
Equipment:		A boat shall have non-electronic charts that are appropriate for the			
Navigation	3.20	race area.	Х	х	
Safety					
Equipment:		A boat shall have the ability to display sail numbers and letters of			
Damage		the size carried on the mainsail by an alternative means when none			
Control	3.21	of the numbered sails is set.	Х		
Safety					
Equipment:		A boat shall carry soft plugs of an appropriate material, tapered and			
Damage		of the appropriate size, attached or stowed adjacent to every			
Control	3.22	through-hull opening.	Х	Х	
		A boat shall carry one anchor, meeting the anchor manufacturer's			
		recommendations based on the yacht's size, with a suitable			
Gear: Anchoring	3.23	combination of chain and line.	Х	х	х
		A boat shall carry a watertight, high-powered searchlight, suitable			
		for searching for a person overboard at night or for collision			
Gear: Lights	3.24.1	avoidance.	Х	Х	
C	2 24 2	A boat shall carry a watertight flashlight for each crewmember with			
Gear: Lights	3.24.2	spare batteries in addition to the above.	Х	}	}
	}	Alexandral constitution of the second			
6	2 2	A boat shall carry at least two watertight flashlights with spare			
Gear: Lights	3.24.3	batteries in addition to the requirement of 3.24.1.		Х	Х
C		A h			
Gear: Medical	2.25	A boat shall carry a first aid kit and first aid manual suitable for the			
Kits	3.25	likely conditions of the passage and the number of crew aboard.	Х	Х	Х

Section Name	#	Requirement	Ocean	Coastal	Nearshore
Gear: Radar		A boat shall carry an 11.5" (292mm) diameter or greater octahedral			
Reflectors	3.26	radar reflector or one of equivalent performance.	Х	Х	}
		A boat shall carry two sturdy buckets of at least two gallons (8			
	3.27.1	liters) capacity with lanyards attached.	Х	Х	
		A boat shall carry one sturdy bucket of at least two gallons (8 liters)			
	3.27.2	capacity with lanyards attached.			х
		A boat shall post a durable, waterproof diagram or chart locating			
Gear: Safety		the principal items of safety equipment and through hulls in the			
Diagram	3.28	main accommodation area where it can be easily seen.	Х		
Gear: -					
Emergency		A boat shall have an emergency tiller, capable of being fitted to the			
Steering	3.29.1	rudder stock.	X		
Gear:					
Emergency	2 20 2	Wheel steered boats shall have an emergency tiller, capable of			
Steering	3.29.2	being fitted to the rudder stock.		Х	{ }
C C		A boat shall carry tools and spare parts, including an effective			
Gear: Spare	2 20	means to quickly disconnect or sever the standing rigging from the			
Parts	3.30	hull.	Х	}	}
		All Proceedings of the control of th			{
		All lifesaving equipment shall bear retro-reflective material and be			
		marked with the yacht's or wearer's name. The exception would be			
		for new equipment or rented equipment (e.g. life rafts) that would			
.		require the unpacking of sealed equipment in order to meet this			
Gear:	2 24	requirement. The boat name shall be added during the first			
Identification	3.31	servicing of any new equipment.	Х	Х	
Gear: Cockpit		A boat shall carry a strong, sharp knife, sheathed and securely			
Knife	3.32	restrained which is readily accessible from the deck and/or cockpit.	х		
NITTC	J.J2	restance which is readily accessible from the deck and/of cockpit.		·	<u> </u>
Sails: Mainsail		A boat shall have a mainsail reefing capable of reducing the luff			
Reefing	3.33.1	length by at least 10%.	х	х	
Necring	3.33.1	icigui by at icast 10%.	^	^	
		A boat shall carry a trysail, with the boat's sail number displayed on			
		both sides, which can be set independently of the main boom, has			
		an area less than 17.5% of E x P, and which is capable of being			
		attached to the mast. Storm sails manufactured after 01/01/2014			
Sails: Trysail	3.33.2	shall be constructed from a highly visible material.	х		
	3.33.2	A boat shall carry a heavy-weather jib (or heavy-weather sail in a	^		
		yacht with no forestay) of area not greater than 13.5% height of the			
Sails: Headsails	3.33.3	foretriangle squared.	x		}
					<u>}</u>
		A boat shall carry a storm jib not exceeding 5% of the yacht's I			
		dimension squared, an equipped with an alternative means of			
		attachment to the headstay in the event of a failure of the head			
		foil. Storm sails manufactured after 01/01/2014 shall be			
Sails: Headsails	3.33.4	constructed from a highly visible material.	х		}
Rigging:		A boat shall not be rigged with any halyard that requires a person to		1	1
Halyards	3.35	go aloft in order to lower a sail.	х	х	
Rigging: Boom		A boat over 30' LOA (9.14m) shall have a means to prevent the			
Support	3.36	boom from dropping if support from the mainsail or halyard fails. A boat shall carry 1 gallon (3.785 liters) per crewmember of	Х	х	
		emergency drinking water in sealed containers in addition to any			
		other water carried aboard the boat and it shall be aboard after			
Supplies: Water	3 37	finishing.	x		

Section Name	#	Requirement	Ocean	Coastal	Nearshore
		A boat shall carry adequate inflatable life raft(s) designed for saving			
		life at sea with designed capacity for containing the entire crew.			
		The raft shall be SOLAS, ISAF, ISO 9650-1 or ORC approved. The raft			
		shall be stored in such a way that it is capable of being launched			
		within 15 seconds. Boats built after 01/06/2001 shall have the life			
		raft stowed in a deck mounted rigid container or stowed in			
		watertight or self-draining purpose built rigid compartment(s)			
		opening adjacent to the cockpit or the working deck. Boats built			
		prior to 01/06/2001 may alternatively stow the life raft in a valise			
		not weighing over 88 lbs. securely below deck and adjacent to the			
Coom Life Defte	2 20	companionway. The life raft(s) shall hold current certificate(s) of	.,		
Gear: Life Rafts	3.39	inspection.	Х		
		A boat shall have a grab bag with a lanyard and clip for each life			
		raft. The grab bag shall have inherent flotation and be of a bright			
		fluorescent color containing at least an EPIRB, and a watertight			
		handheld VHF radio. The VHF radio and EPIRB need not be in			
Gear: Life Rafts	3.40	addition to the prior requirements.	Х		
		A boat's crew shall be aware of multiple methods of steering the			
		boat with the rudder disabled, and shall have chosen and practiced			
Skills:		one method of steering the boat with the rudder disabled and be			
Emergency		prepared to demonstrate said method of steering both upwind and			
Steering	4.1.1	downwind.	х		
Skills:				}	
Emergency		Crews must be aware of methods of steering the yacht with the			
Steering	4.1.2	rudder disabled.		х	
		Annually, two-thirds of the boat's racing crew shall practice man-			
		overboard procedures appropriate for the boat's size and speed.			
		The practice shall consist of marking and returning to a position on			
Skills: Man		the water, and demonstrating a method of hoisting a crewmember back on deck, or other consistent means of reboarding the			
Overboard	4 2	crewmemher	×	×	x
Overbourd	7.2	orewine index.	^	·····	^
		At least 30% of those aboard the boat, but not fewer than two			
		members of the crew, unless racing single-handed, including the			
		person in charge, shall have attended a one-day or two-day US			
		Sailing Safety at Sea Seminar within the last 5 years, including onlnie			
Skills: Safety at		courses when available, or other courses as accepted by US Sailing			
Sea Training	4.3.1	or other national authority.	х		
		At least 30% of those aboard the boat, but not fewer than two			
		members of the crew, unless racing single handed, including the			
		person in charge, shall have attended a half-day, one-day, or two-			
		day US Sailing Safety at Sea Seminar within the last 5 years,			
Skills: Safety at		including online courses when available, or other courses as			
Sea Training	4.3.2	accepted by US Sailing or other national authority.		х	