Safety Equipment Requirements		
	uthorities may add or delete items based on the conditions of their specific races.	
Effective Date: Janu	ary 1, 2022, version 2022.0	
1	Overall	
1.0.2 Definition	Coastal: Races not far removed from shorelines, where rescue is likely to be quickly available	
	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	
1.1	Racing Rules of Sailing, the rules of Class Associations and any applicable rating rules.	
	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	
1.2	safety equipment is at all times properly maintained and safely stowed and that the crew knows	
Responsibility	where it is kept and how it is to be used.	
,,	Should there be an incident during a race the Organizing Authority or US Sailing may conduct	
	an investigation to determine the facts of the incident and provide recommendations. By	
1.2.1	participating in a race conducted under the SER, the person in charge, each competitor and	
Responsibility,	boat owner agrees to reasonably cooperate with the organizing authority and US Sailing in the	
Investigations	development of an independent incident report.	
	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	
1.3 Inspections	subject to a protest filed by the RC. A Violation of the Safety Equipment Requirements may result in a penalty other than disqualification.	
1.5 Inspections	All equipment required shall function properly, be regularly checked, cleaned and serviced, and	
	be of a type, size and capacity suitable for the intended use and size of the boat and the size of	
1.4 Equipment	the crew. This equipment shall be readily accessible while underway and, when not in use,	
and Knowledge	stored in such a way that deterioration is minimized.	
1.5 Secure	A boat's heavy items such as batteries, stoves, toolboxes, anchors, chain and internal ballast	
Storage	shall be secured.	
	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	
1.6 Strength of	and ballasted, be fully seaworthy and shall meet the standards set forth herein. A boat's	
Build	shrouds and at least one forestay shall remain attached at all times.	
1.7 Watertight	A boat's hull, including, deck, coach roof, windows, hatches and all other parts, shall form an integral watertight unit, and any openings in it shall be capable of being immediately secured to	
Integrity	maintain this integrity.	
	Hull and Structure	
2.1.1 Hull	A boat's companionway(s) shall be capable of being blocked off to main deck level (sheerline).	
Openings	The method of blocking should be solid, watertight, and rigidly secured, if not permanent.	
2.1.2 Hull	A boat's hatch boards, whether or not in position in the hatchway, shall be secured in a way that	
Openings	prevents their being lost overboard.	
	A boat's entire cockpit shall be solid, watertight, strongly fastened and/or sealed. Weather-tight	
2.1.3 Cockpit	seat hatches are acceptable only if capable of being secured when closed.	
0.4.4.04.5	A boat's cockpit drains shall be capable of draining six inches of water in 5 minutes. One square	
2.1.4 Cockpit	inch (645mm2) of effective drain per eight square feet (0.743m2) of cockpit sole will meet this	
Drains	requirement.	

	A boat's maximum cockpit volume for cockpits not open to the sea, including any compartments
0.4.5.0.0.1.11	capable of flooding, to lowest points of coaming over which water can adequately escape, shall
2.1.5.2 Cockpit	not exceed 0.08 x LOA x Max. Beam x Freeboard aft. The cockpit sole shall be at least 0.02 x
Volume	LOA above LWL.
	A boat's through-hull openings below the waterline shall be equipped with sea cocks or valves,
2.1.6 Through	except for integral deck scuppers, speed transducers, depth finder transducers and the like;
Hulls	however a means of closing such openings shall be provided.
	The boat must have a stability index greater than or equal to 103 or meet the requirements of
2.2.2 Stability	ISO 12217-2B.
	A boat with moveable or variable ballast (water or canting keel) shall comply with the
2.2.3 Stability	requirements of Appendix K.
,	A boat's deck including the headstay shall be surrounded by a suitably strong enclosure,
2.4.1 Lifelines	typically consisting of lifelines and pulpits, meeting the requirements in 2.4.2 to 2.4.8.
2.4.2 Lifeline	lypically consisting of memics and pulpits, meeting the requirements in 2.1.2 to 2.1.0.
Stanchions	A boat's stanchion and pulpit bases shall be within the working deck.
Staricilloris	Bow pulpits may be open, but the opening between the vertical portion of stanchion pulpit and
0.4.0.DD	
2.4.3 Bow Pulpit	any part of the boat shall not exceed 14.2" (360mm).
	Lifelines shall be uncoated stainless steel wire. A multipart-lashing segment not to exceed 4"
	per end termination for the purpose of attaching lifelines to pulpits is allowed. Lifelines shall be
2.4.4 Lifelines	taut.
	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) When a deflecting force of 9 lbs (40N) is applied midway
2.4.4.1 Lifeline	between supports of an intermediate lifeline of all spans that are aft of the mast, deflection shall
Deflection	not exceed 5" (120mm) from a straight line between the stanchions.
2.4.5 Lifeline	The exceeded (120mm) from a straight line between the standinghe.
Stanchion	The maximum spacing between lifeline supports (e.g. stanchions and pulpits) shall be 87"
	(2.2m).
Spacing	Boats under 30' (9.14m) shall have at least one lifeline with 18" (457mm) minimum height
0.4.0.1.16.15	above deck, and a maximum vertical gap of 18" (457mm). Taller heights will require a second
2.4.6 Lifelines	lifeline. The minimum diameter shall be 1/8" (3mm).
	Boats 30' and over (9.14m) shall have at least two lifelines with 24" (762mm) minimum height
	above deck, and a maximum vertical gap of 15" (381mm). The minimum diameter will be 5/32"
2.4.7 Lifelines	(4mm) for boats to 43' (13.1m) and 3/16" (5mm) for boats over 43' (13.1m).
	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' (9.14m) and 1" (25mm) for boats over 30'. An additional
	installed lifeline that is 1-2" (25-51mm) above the deck will satisfy this requirement for boats
2.4.8 Toe Rails	without toerails.
	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 trampoline nets
2 4 9 Lifelines on	between the hulls are exempted from the lifeline requirement. All catamarans are exempted
Trimarans	from the need for pulpits and lifelines across the bow.
TIIIIalalis	
	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 pump, the bilge pump
	handle shall be securely attached to the boat in its vicinity via a lanyard or catch. A bilge pump
2.5.1 Dewatering	1
pumps	cockpit unless that cockpit opens aft to the sea.
	A boat shall have a mechanical propulsion system that is quickly available and capable of
2.7.2 Mechanical	driving the boat at a minimum speed in knots equivalent to the square root of LWL in feet (1.8
1	
Propulsion	times the square root of the waterline in meters) for 4 hours.

2.7.3 Mechanical	
Propulsion	The boat's engine and generator installation (if so equipped) must conform to ABYC, ISO, or
Installation	U.S. Coast Guard standards.
	Safety Equipment
	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 inherently buoyant off-shore life
	jacket that provides at least 22lbs (100N) of buoyancy meeting either U.S. Coast Guard or ISO
3.1.1 Lifejackets	specifications.
O. T. T Ellojackoto	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 boat's or wearer's
3.1.2 Lifejacket	name, and be compatible with the wearer's safety harness. If the life jacket is inflatable, it shall
Features	be regularly checked for air retention.
	Each crewmember shall have a safety harness and compatible safety tether not more than 6'7"
	(2m) long with a minimum tensile strength of 4500 lb. (20kN). The tether shall have a snap
3.1.4 Harness	hook at its far end and a means to quickly disconnect the tether at the chest end.
	A boat shall carry jacklines with a breaking strength of at least 4500 lb. (20kN) which allow the
	crew to reach all points on deck, connected to similarly strong attachment points, in place while
3.2.1 Jacklines	racing.
3.2.3 Deck	Multihulls must have jacklines or attachment points that are accessible when the boat is
Safety	inverted.
	A boat racing between sunset and sunrise shall carry navigation lights that meet U. S. Coast
3.3.1 Navigation	Guard or applicable government requirements mounted so that they will not be obscured by the
Lights	sails nor be located below deck level.
3.4 Fire	A boat shall carry fire extinguisher(s) that meets U.S. Coast Guard or applicable government
Extinguishers	requirements, when applicable.
3.5 Sound	
Producing	A boat shall carry sound-making devices that meets U.S. Coast Guard or applicable
Equipment	government requirements, when applicable.
3.6.2 Smoke	A beat about a sum one COLAC answer and the flavor was also the sum that are the assumination of the
Flares	A boat shall carry one SOLAS orange smoke flares not older than the expiration date.
3.6.4 Hand	A heat shall corry three COLAC rad hand flares not older than the expiration data
Flares 3.6.5 Raft Flares	A boat shall carry three SOLAS red hand flares not older than the expiration date.  Boat flares stored inside of life rafts may not be used to satisfy the flare requirement.
3.7.1 Crew	A boat shall carry a Lifesling or equivalent man overboard rescue device equipped with a self
Overboard Sling	igniting light stored on deck and ready for immediate use.
Overboard Silling	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
3.7.2 Crew	satisfy this requirement. Self-inflating apparatus shall be tested and serviced in accordance with
Overboard	the manufacturer's specifications. These items shall be stored on deck, ready for immediate
Equipment	use, and affixed in a manner that allows for a "quick release".
qap	A boat shall have a throwing sock-type heaving line of 50' (15m) or greater of floating
3.7.3 Throw Line	polypropylene line readily accessible to the cockpit.
1 1 1 1 1 1 1 1 1 1	A boat shall carry a Coast Guard or applicable government approved "throwable device". If the
3.7.4 Throwable	device carried under 3.7.1 or 3.7.2 satisfies this requirement, then no additional device is
Device	needed.
	A boat shall have a permanently installed 25-watt VHF radio connected to a masthead antenna
	by a co-axial feeder cable with no more than a 40% power loss. Such radio shall have DSC
	capability, have an antenna of at least 15" (381mm) in length, be connected to or have an
3.8.1 Fixed	internal GPS, and have the assigned MMSI number (unique to the boat) programed into the
Mount VHF	VHF.

All boats shall have an AIS Transponder, sharing a masthead VHF antenna via a low loss AIS antenna splitter. An acceptable alternative is a dedicated AIS antenna that is a minimum of 0.9 meters long, mounted with its base at least 3 meters above the water, and fed with coax that has a maximum 40% power loss. AIS requirement for Coastal is effective January 1, 2024.  3.14 GPS  3.15 Crew Overboard  A boat shall carry an electronic means to record the position of a man overboard within ten seconds. This may be the same instrument listed in 3.14.  A boat shall carry either a 406MHz EPIRB which is properly registered to the boat, or a floating 3.16.2 EPIRB / 406MHz Personal Locator Beacon, registered to the owner with a notation in the registration that it is aboard the boat. This device shall be equipped with an intention in the registration that it is aboard the boat. This device shall be equipped with an intention of the hoat's electrical system suitable for steering at sea.  3.19 1 Compass  3.19 1 Compass  A boat shall have non-electronic charts that are appropriate for the race area.  A boat shall have non-electronic charts that are appropriate for the race area.  A boat shall carry one anchor, meeting the anchor manufacturer's recommendations based on the yacht's size, with a suitable combination of chain and line.  3.24.1  A boat shall carry a watertight, high-powered searchlight, suitable for searching for a person overboard at night or for collision avoidance.  A boat shall carry a watertight, high-powered searchlight, suitable for searching for a person overboard at night or for collision avoidance.  A boat shall carry a first aid kit and first aid manual suitable for the likely conditions of the requirement of 3.24.1.  A boat shall carry a watertight flashlights with spare batteries in addition to the requirement of 3.24.1.  A boat shall carry a first sid kit and first aid manual suitable for the likely conditions of the requirement of 3.24.1.  A boat shall carry a first sid kit and first aid manual suita	3.8.2 Handheld VHF	A boat shall have a watertight handheld VHF radio or a handheld VHF radio with waterproof cover. This radio shall have DSC/GPS capability with an MMSI number properly registered to the vessel.
antenna splitter. An acceptable alternative is a dedicated AIS antenna that is a minimum of 0.9 meters long, mounted with its base at least 3 meters above the water, and fed with coax that has a maximum 40% power loss. AIS requirement for Coastal is effective January 1, 2024.  3.14 GPS 3.14 GPS A boat shall carry a GPS receiver.  Als requirement for Coastal is effective January 1, 2024.  A boat shall carry a GPS receiver.  A boat shall carry an electronic means to record the position of a man overboard within ten seconds. This may be the same instrument listed in 3.14.  A boat shall carry wither a 406MHz EPIRB which is properly registered to the boat, or a floating 406MHz Personal Locator Beacon, registered to the owner with a notation in the registration that it is aboard the boat. This device shall be equipped with an internal GPS.  3.18 Depth A boat shall have a permanently installed depth sounder that can measure to depths of at least 200 ft. (61m).  A boat shall have a permanently mounted magnetic compass independent of the boat's electrical system suitable for steering at sea.  3.20 Charts A boat shall have no-electronic charts that are appropriate for the race area.  A boat shall have no-electronic charts that are appropriate for the race area.  A boat shall carry or anchor, meeting the anchor manufacturer's recommendations based on the yacht's size, with a suitable combination of chain and line.  3.24 In a boat shall carry a telest two watertight flashlights with spare batteries in addition to the requirement of 3.24.1  A boat shall carry a first aid kilt and first aid manual suitable for the likely conditions of the passage and the number of crew aboard.  3.26 Medical Kits passage and the number of crew aboard.  3.27 Medical Kits passage and the number of crew aboard.  3.28 Safety Diagram  A boat shall carry a first aid kilt and first aid manual suitable for the likely conditions of the passage and the number of crew aboard.  A boat shall carry a first aid kilt and first aid manual suitable for the loa	VIII	the vessel.
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3.16.2 EPIRB / 406MHz Personal Locator Beacon, registered to the owner with a notation in the registration that it is aboard the boat. This device shall be equipped with an internal GPS.  3.18 Depth Aboat shall have a permanently installed depth sounder that can measure to depths of at least 200 ft. (61m).  A boat shall have a permanently mounted magnetic compass independent of the boat's electrical system suitable for steering at sea.  3.20 Charts Aboat shall have non-electronic charts that are appropriate for the race area.  A boat shall carry of plugs of an appropriate material, tapered and of the appropriate size, attached or stowed adjacent to every through-hull opening.  A boat shall carry of plugs of an appropriate manufacturer's recommendations based on the yacht's size, with a suitable combination of chain and line.  3.24.1 Aboat shall carry a watertight, high-powered searchlight, suitable for searching for a person overboard at night or for collision avoidance.  3.24.3 Aboat shall carry a teast two watertight flashlights with spare batteries in addition to the requirement of 3.24.1.  A boat shall carry a first aid kit and first aid manual suitable for the likely conditions of the passage and the number of crew aboard.  3.25 Medical Kits  3.26 Radar Reflectors  A boat shall carry an 11.5" (292mm) diameter or greater octahedral radar reflector or one of equivalent performance.  A boat shall carry two sturdy buckets of at least two gallons (8 liters) capacity with lanyards attached.  A boat shall post a durable, waterproof diagram or chart locating the principal items of safety equipment and through hulls in the main accommodation area where it can be easily seen.  Wheel steered boats shall have an emergency tiller, capable of being fitted to the rudder stock.  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		
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A boat shall carry two sturdy buckets of at least two gallons (8 liters) capacity with lanyards attached.  3.28 Safety Diagram  A boat shall post a durable, waterproof diagram or chart locating the principal items of safety equipment and through hulls in the main accommodation area where it can be easily seen.  Wheel steered boats shall have an emergency tiller, capable of being fitted to the rudder stock.  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 requirement. The boat name shall be added during the first servicing of any new equipment.  A boat shall have a mainsail reefing capable of reducing the luff length by at least 10%.  A boat shall not be rigged with any halyard that requires a person to go aloft in order to lower a sail.  3.36 Boom  A boat over 30' LOA (9.14m) shall have a means to prevent the boom from dropping if support from the mainsail or halyard fails.  Skills  4.1.2 Emergency		
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4.1.2 Emergency	Support	from the mainsail or halyard fails.
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	4.1.2 Emergency	
Totaling Totaliant be arrais of motious of stooring the yaont with the radio disabled.	Steering	Crews must be aware of methods of steering the yacht with the rudder disabled.

	Annually, two-thirds of the boat's racing crew shall practice man-overboard procedures
4.2 Man	appropriate for the boat's size and speed. The practice shall consist of marking and returning to
Overboard	a position on the water, and demonstrating a method of hoisting a crewmember back on deck,
Practice	or other consistent means of reboarding the crewmember.
	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 a valid Coastal, Offshore, or
4.3.2 Safety at	International Offshore Certificate from US Sailing, or the equivalent from another national
Sea Training	authority.
	As required in 1.2 above the person in charge shall ensure that all crew members know where
	all emergency equipment is located and how to operate the equipment. In addition, the person
4.4 Crew	in charge and crew should discuss how to handle various emergency situations including Crew
Training	Overboard, Grounding, Loss of steering, Flooding, Fire, Dismasting, and Abandon Ship.
	Lifejackets as described in 3.1.1 – 3.1.3 should be worn by all crew on deck in any conditions
4.6 Crew	where recovery may be difficult. It is recommended that lifejackets be worn by all crew on deck
Training	unless the person in charge has indicated that they may be set aside.