

2025 PNWO Monohull/Multihull - SER – Coastal

SAFETY EQUIPMENT REQUIREMENTS		
Boat Name:		
Skipper/Owner:		
1		Overall
Mo/ Mu	1.0.2 Definition	Coastal: Races not far removed from shorelines, where rescue is likely to be quickly available
Mo/ Mu	1.1	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 Associations and any applicable rating rules.
Mo/ Mu	1.2 Responsibility	The safety of a boat and her crew is the sole and inescapable responsibility of the "person in charge", as per RRS 3 and 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 times properly maintained and safely stowed and that the crew knows where it is kept and how it is to be used.
Mo/ Mu	1.2.1 Responsibility, Investigations	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 participating in a race conducted under the SER, the person in charge, each competitor and boat owner agrees to reasonably cooperate with the organizing authority and US Sailing in the development of an independent incident report.
Mo/ Mu	1.3 Inspections	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 a protest filed by the RC. A Violation of the Safety Equipment Requirements may result in a penalty other than disqualification.

Mo/ Mu	1.4 Equipment and Knowledge	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 the crew. This equipment shall be readily accessible while underway and, when not in use, stored in such a way that deterioration is minimized.
Mo/ Mu	1.5 Secure Storage	A boat's heavy items such as batteries, stoves, toolboxes, anchors, chain and internal ballast shall be secured.
Mo/ Mu	1.6 Strength of Build	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 ballasted, be fully seaworthy and shall meet the standards set forth herein. A boat's shrouds and at least one forestay shall remain attached at all times.
Mo	1.7 Watertight Integrity	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 maintain this integrity.
Mu	1.7.1 Watertight Integrity	A boat's hulls and amas, 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 maintain this integrity. Centerboard and daggerboard trunks and the like shall not open to the interior of the hull unless the opening is watertight and situated entirely above the waterline floating level in normal trim.
2		Hull and Structure
Mo	2.1.1 Hull Openings	A boat's companionway(s) shall be capable of being blocked off to main deck level (sheerline). The method of blocking should be solid, watertight, and rigidly secured, if not permanent.
Mu	2.1.1.1 Exits Exits	A boat shall have at least 2 exits in each hull which contains accommodation.

Mu	2.1.1.2 Escape Hatches	A boat shall have either an escape hatch in each hull that contains accommodation for access to and from the hull in the event of an inversion or cutting lines shall be clearly marked both inside and outside with an outline and the words "ESCAPE CUT HERE" and appropriate tools for cutting an escape opening stowed securely in a location accessible from both inside and outside the boat in the event of capsizing.
Mu	2.1.1.4 Escape Hatches	Escape hatches shall be above the waterline when the boat is inverted.
Mu	2.1.1.5 Escape Hatches	Escape Hatches shall have sufficient minimum clearance of 450mm (approximately 18") in diameter or when an escape hatch is not circular, sufficient clearance to allow a crew member to pass through fully clothed.
Mu	2.1.1.6 Escape Hatches	Each Escape Hatch shall have been opened both from the inside and outside within six (6) months prior to the race.
Mo/ Mu	2.1.2 Hull Openings	A boat's hatch boards, whether or not in position in the hatchway, shall be secured in a way that prevents their being lost overboard.
Mo/ Mu	2.1.3 Cockpit	A boat's entire cockpit shall be solid, watertight, strongly fastened and/or sealed. Weather-tight seat hatches are acceptable only if capable of being secured when closed.
Mo	2.1.4 Cockpit Drains	A boat's cockpit drains shall be capable of draining six inches of water in 5 minutes. One square inch (645mm ²) of effective drain per eight square feet (0.743m ²) of cockpit sole will meet this requirement.
Mo	2.1.5.2 Cockpit Volume	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 at least 0.02 x LOA above LWL.
Mo/ Mu	2.1.6 Through Hulls	A boat's through-hull openings below the waterline shall be equipped with sea cocks or valves, except for integral deck scuppers, speed transducers, depth finder transducers and the like; however a means of closing such openings shall be provided.

Mu	2.1.7 Floatation	A boat shall be designed to ensure that the boat is effectively unsinkable.
Mo	2.2.2 Stability	The boat must have a stability index greater than or equal to 103 or meet the requirements of ISO 12217-2B.
Mo	2.2.3 Stability	A boat with moveable or variable ballast (water or canting keel) shall comply with the requirements of Appendix K.
Mo/ Mu	2.3.5 Hand Holds	A boat shall have adequate hand holds below decks.
Mo	2.4.1 Lifelines	A boat's deck including the headstay shall be surrounded by a suitably strong enclosure, typically consisting of lifelines and pulpits, meeting the requirements in 2.4.2 to 2.4.8.
Mo	2.4.2 Lifeline Stanchions	A boat's stanchion and pulpit bases shall be within the working deck.
Mo	2.4.3 Bow Pulpit	Bow pulpits may be open, but the opening between the vertical portion of stanchion pulpit and any part of the boat shall not exceed 14.2" (360mm).
Mo	2.4.4 Lifelines	Lifelines shall be uncoated stainless steel wire. A Mupart-lashing segment not to exceed 4" per end termination for the purpose of attaching lifelines to pulpits is allowed. Lifelines shall be taut.
Mo	2.4.4.1 Lifeline Deflection	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 between supports of an intermediate lifeline of all spans that are aft of the mast, deflection shall not exceed 5" (120mm) from a straight line between the stanchions.
Mo	2.4.5 Lifeline Stanchion Spacing	The maximum spacing between lifeline supports (e.g. stanchions and pulpits) shall be 87" (2.2m).

Mo	2.4.6 Lifelines	Boats under 30' (9.14m) shall have at least one lifeline with 18" (457mm) minimum height above deck, and a maximum vertical gap of 18" (457mm). Taller heights will require a second lifeline. The minimum diameter shall be 1/8" (3mm).
Mo	2.4.7 Lifelines	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" (4mm) for boats to 43' (13.1m) and 3/16" (5mm) for boats over 43' (13.1m).
Mo	2.4.8 Toe Rails	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 without toerails.
Mu	2.4.9 Lifelines on Trimarans	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 between the hulls are exempted from the lifeline requirement. All catamarans are exempted from the need for pulpits and lifelines across the bow.
Mo/ Mu	2.5.1 Dewatering pumps	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 discharge shall not be connected to a cockpit drain. The bilge pump shall not discharge into a cockpit unless that cockpit opens aft to the sea.
Mo/ Mu	2.5.2 Dewatering pumps	A boat shall have a portable manual bilge pump of at least 10 GPM capacity capable of dewatering any part of the boat. When not in use, the pump shall be attached to the boat.
Mo/ Mu	2.7.2 Mechanical Propulsion	A boat shall have a mechanical propulsion system that is quickly available and capable of driving the boat at a minimum speed in knots equivalent to the square root of LWL in feet (1.8 times the square root of the waterline in meters) for 4 hours.

Mo/ Mu	2.7.3 Mechanical Propulsion Installation	The boat's engine and generator installation (if so equipped) must conform to ABYC, ISO, or U.S. Coast Guard standards.
Mu	2.8 Nets or Trampolines	All trampolines shall be (a) essentially horizontal; (b) Made from durable woven webbing, water permeable fabric or mesh with openings not larger than 2" (5cm) in any dimension. Attachment points shall avoid chafe and the junction between net and boat shall present no risk of foot trapping; (c) Solidly fixed at regular intervals on transverse and longitudinal support lines and (d) Able to carry the full weight of the crew either in normal working conditions at sea or when the boat is inverted.
Mu	2.9 Nets or Trampolines	Each Muhull shall have one or a combination of netting, coamings, bulwarks, railings, lifelines or jacklines, extending from the aft most part of the cockpit or steering station to the aft most part of the central pulpit or forestay, to keep the crew aboard while sailing and sail handling in conditions expected for Offshore, Coastal or Inshore racing. If lifelines are used, they may be either stainless or HMPE with a minimum diameter of 3/16" (5mm), they must be taut, supported at distances of no greater than 87" (2.2 m), and be a minimum of 24" (762 mm) above the deck with a maximum vertical gap of 15" (381mm).
Mu	2.10 Nets or Trampolines	A trimaran with a single crossbeam shall have nets between the central hull and each outrigger on each side between two straight lines from the intersection of the crossbeam and the outrigger, respectively to the aft end of the pulpit on the central hull, and to the aftermost point of the cockpit or steering position on the central hull (whichever is furthest aft).
Mu	2.11 Nets or Trampolines	A catamaran shall have nets covering at least the area bounded: (a) laterally between the hulls and (b) Longitudinally between transverse stations through the forestay base and the aftermost point of the boom lying fore and aft. However, a catamaran with a central nacelle (non- immersed) may satisfy the regulations for a trimaran
3		Safety Equipment

Mo/ Mu	3.1.1 Lifejackets	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 specifications.
Mo/ Mu	3.1.2 Lifejacket Features	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 name, and be compatible with the wearer's safety harness. If the life jacket is inflatable, it shall be regularly checked for air retention.
Mo/ Mu	3.1.4 Harness	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 hook at its far end and a means to quickly disconnect the tether at the chest end.
Mo/ Mu	3.2.1 Jacklines	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 racing.
Mu	3.2.3 Deck Safety	Muhulls shall have jacklines or attachment points that are accessible when the boat is inverted. A boat shall have jack lines with a breaking strength of at least 4,500 lbs. (20 kN), running the length of the underwing deck adjacent to the escape hatches, which allow the crew to clip in before exiting the hull. On a trimaran, these shall be around the central hull. In addition, the underwing deck shall (if there is one) be outfitted with nonskid pathways suitable for crew to cross between hulls and to access safety equipment while remaining clipped in.
Mo/ Mu	3.3.1 Navigation Lights	A boat racing between sunset and sunrise shall carry navigation lights that meet U. S. Coast Guard or applicable government requirements mounted so that they will not be obscured by the sails nor be located below deck level.
Mo/ Mu	3.4 Fire Extinguishers	A boat shall carry fire extinguisher(s) that meets U.S. Coast Guard or applicable government requirements, when applicable.

Mo/ Mu	3.5 Sound Producing Equipment	A boat shall carry sound-making devices that meets U.S. Coast Guard or applicable government requirements, when applicable.
Mo/ Mu	3.6.4 Hand Flares	A boat shall carry the number and type of flares required by its National Safety Authority for day and night requirements at a minimum. They shall not be older than 4 years. Irrespective of the foregoing minimum requirement, it is recommended that a boat carry three SOLAS red hand flares not older than the expiration date.
Mo/ Mu	3.6.5 Raft Flares	Boat flares stored inside of life rafts may not be used to satisfy the flare requirement.
Mo/ Mu	3.7.1 Crew Overboard Sling	A boat shall carry a Lifesling or equivalent crew overboard rescue device equipped with a self igniting light stored on deck and ready for immediate use.
Mo/ Mu	3.7.2 Crew Overboard Equipment	A boat shall have a crew overboard pole and flag, with a lifebuoy, a self-igniting light, a whistle, and a drogue attached. A self-inflating Crew Overboard Module, Dan Buoy or similar device will satisfy this requirement. Self-inflating apparatus shall be tested and serviced in accordance with the manufacturer's specifications. These items shall be stored on deck, ready for immediate use, and affixed in a manner that allows for a "quick release".
Mo/ Mu	3.7.3 Throw Line	A boat shall have a throwing sock-type heaving line of 50' (15m) or greater of floating polypropylene line readily accessible to the cockpit.
Mo/ Mu	3.7.4 Throwable Device	A boat shall carry a Coast Guard or applicable government approved "throwable device". If the device carried under 3.7.1 or 3.7.2 satisfies this requirement, then no additional device is needed.
Mo/ Mu	3.8.1 Fixed Mount VHF	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 internal GPS, and have the assigned MMSI number (unique to the boat) programed into the VHF .
Mo/ Mu	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.

Mo/ Mu	3.9 AIS	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.
Mo/ Mu	3.14 GPS	A boat shall carry a GPS receiver.
Mo/ Mu	3.15 Crew Overboard Button	A boat shall carry an electronic means to record the position of a crew overboard within ten seconds. This may be the same instrument listed in 3.14.
Mo/ Mu	3.16.2 EPIRB / PLB	A boat shall carry either 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.
Mo/ Mu	3.17 Knot Meter	A boat shall have a knotmeter or alternatively a handheld GPS, in addition to the primary GPS referenced in 3.14
Mo/ Mu	3.18 Depth Sounder	A boat shall have a permanently installed depth sounder that can measure to depths of at least 200 ft. (61m).
Mo/ Mu	3.19.1 Compass	A boat shall have a permanently mounted magnetic compass independent of the boat's electrical system suitable for steering at sea.
Mo/ Mu	3.20 Charts	A boat shall have charts that are appropriate for the race area.
Mo/ Mu	3.22 Plugs	A boat shall carry soft plugs of an appropriate material, tapered and of the appropriate size, attached or stowed adjacent to every through-hull opening.
Mo/ Mu	3.23 Anchor	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.
Mo/ Mu	3.24.1 Searchlight	A boat shall carry a watertight, high-powered searchlight, suitable for searching for a person overboard at night or for collision avoidance.

Mo/ Mu	3.24.3 Flashlights	A boat shall carry at least two watertight flashlights with spare batteries in addition to the requirement of 3.24.1.
Mo/ Mu	3.25 Medical Kits	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.
Mo/ Mu	3.26 Radar Reflectors	A boat shall carry an 11.5" (292mm) diameter or greater octahedral radar reflector or one of equivalent performance.
Mo/ Mu	3.27.1 Buckets	A boat shall carry two sturdy buckets of at least two gallons (8 liters) capacity with lanyards attached.
Mo/ Mu	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.
Mo/ Mu	3.29.2 Emergency Tiller	Wheel steered boats shall have an emergency tiller, capable of being fitted to the rudder stock.
Mo/ Mu	3.31 Identification	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.
Mu	3.32 Cockpit Knife	A boat shall carry at least one strong, sharp knife, sheathed and securely restrained on deck which is readily accessible from each trampoline in the event of inversion In addition, A boat shall carry a second knife meeting the requirements above which is accessible from the underside of the boat.
Mo	3.32.1 Cockpit Knife	A strong, sharp knife, in a securely restrained sheath shall be readily accessible from the deck or a cockpit.
Mo	3.33.1 Mainsail Reefing	A boat shall have a mainsail reefing capable of reducing the luff length by at least 10%.

Mu	3.33.1.1 Mainsail Reefing	A boat shall have a mainsail with reefing capable of reducing the luff length by at least 50%.
Mu	3.33.5 Mainsheet Release	The crew of a boat must be able to manually release sufficient mainsheet or traveler to cause the end of the boom to move at least 15 degrees in arc in under two (2) seconds from all steering or consistently manned trimming station while racing. Hydraulics manufacturer design specifications or video are acceptable compliance.
Mu	3.33.4 Search & Rescue Visibility	A boat must display a one square meter area of highly visible pink, orange or yellow showing if the boat is inverted.
Mo	3.35 Halyards	A boat shall not be rigged with any halyard that requires a person to go aloft in order to lower a sail.
Mu	3.35.1 Halyards	A single roller-furling headsail of no larger than 125% LP may be lashed to the swivel at the top of the forestay, thus requiring a person to go aloft to hoist or drop this sail. No other sail, either headsail or mainsail, may be rigged so that someone has to go aloft to hoist or drop it.
Mo	3.36 Boom Support	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.
4		Skills
Mo/ Mu	4.1.2 Emergency Steering	Crews must be aware of methods of steering the yacht with the rudder disabled.
Mo/ Mu	4.2 Crew Overboard Practice	Annually, two-thirds of the boat's racing crew shall practice crew-overboard procedures appropriate for the boat's size and speed. The practice shall consist of marking and returning to a position on the water, and demonstrating a method of hoisting a crewmember back on deck, or other consistent means of reboarding the crewmember.

Mo/ Mu	4.3.2 Safety at Sea Training	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 International Offshore Certificate from US Sailing, or the equivalent from another national authority.
Mo/ Mu	4.4 Crew Training	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 in charge and crew should discuss how to handle various emergency situations including Crew Overboard, Grounding, Loss of steering, Flooding, Fire, Dismasting, and Abandon Ship.
Mo/ Mu	4.6 Crew Training	Lifejackets as described in 3.1.1 – 3.1.3 should be worn by all crew on deck in any conditions where recovery may be difficult. It is recommended that lifejackets be worn by all crew on deck unless the person in charge has indicated that they may be set aside.
Mo/ Mu	Owner/Skipper Signature acknowledging that the boat complies with all of the above Safety Equipment Requirements:	