Safety Equipment Requirements

Note: Organizing Authorities may add or delete items based on the conditions of their specific races. Effective Date: March 1, 2023, version 2023.0 valid through December 31, 2024

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1	Overall
1.0.1 Definition	Ocean: Long distance races, well offshore, where rescue may be delayed
	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
1.1	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 safety equipment is at all times properly
1.2 Responsibility	maintained and safely stowed and that the crew knows 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 participating in
1.2.1	a race conducted under the SER, the person in charge, each competitor and boat owner agrees to
Responsibility,	reasonably cooperate with the organizing authority and US Sailing in the development of an
Investigations	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 subject to a
	protest filed by the RC. A Violation of the Safety Equipment Requirements may result in a penalty
1.3 Inspections	other than disqualification.
	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
1.4 Equipment	equipment shall be readily accessible while underway and, when not in use, stored in such a way that
and Knowledge	deterioration is minimized.
1.5 Secure	A boat's heavy items such as batteries, stoves, toolboxes, anchors, chain and internal ballast shall be
Storage	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 and ballasted, be
1.6 Strength of	fully seaworthy and shall meet the standards set forth herein. A boat's shrouds and at least one
Build	forestay shall remain attached at all times.
	A boat's hull, including, deck, coach roof, windows, hatches and all other parts, shall form an integral
1.7 Watertight	watertight unit, and any openings in it shall be capable of being immediately secured to maintain this
Integrity	integrity.
1.8 Scantlings	Hull Construction Standards - Scantlings with plan review approval - (See Appendix)
2	Hull and Structure
2.1.1 Hull	A boat's companionway(s) shall be capable of being blocked off to main deck level (sheerline). The
Openings	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 seat
2.1.3 Cockpit	hatches are acceptable only if capable of being secured when closed.
2.1.4 Cockpit	A boat's cockpit drains shall be capable of draining six inches of water in 5 minutes. One square inch
Drains	(645mm2) of effective drain per eight square feet (0.743m2) of cockpit sole will meet this requirement.

	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
2.1.5.1 Cockpit	exceed 0.06 x LOA x Max. Beam x Freeboard aft. The cockpit sole shall be at least 0.02 x LOA above
Volume	LWL.
Volume	A boat's through-hull openings below the waterline shall be equipped with sea cocks or valves, except
2.1.6 Through	for integral deck scuppers, speed transducers, depth finder transducers and the like; however a means
Hulls	of closing such openings shall be provided.
	The boat must have a stability index greater than or equal to 115, or meet the requirements of ISO
2.2.1 Stability	12217-2A
2.2.1 9td9mty	A boat with moveable or variable ballast (water or canting keel) shall comply with the requirements of
2.2.3 Stability	Appendix K.
2.3.1 Head	A boat shall be equipped with a head or a fitted bucket.
2.3.2 Bunks	A boat shall have bunks sufficient to accommodate the off watch crew.
2.3.3 Stove	A boat shall have a stove with a fuel shutoff.
2.3.3.1 Fire	
Blanket	A boat shall have a fire blanket adjacent to each stove.
2.3.4 Water	boats shall carry water as required by the Notice of Race such that a single failure of a tank or delivery
Storage	system will not allow the loss of more than half the water.
2.3.5 Hand Holds	A boat shall have adequate hand holds below decks.
	A boat's deck including the headstay shall be surrounded by a suitably strong enclosure, typically
2.4.1 Lifelines	consisting of lifelines and pulpits, meeting the requirements in 2.4.2 to 2.4.8.
2.4.2 Lifeline	
Stanchions	A boat's stanchion and pulpit bases shall be within the working deck.
	Bow pulpits may be open, but the opening between the vertical portion of stanchion pulpit and any
2.4.3 Bow Pulpit	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
2.4.4 Lifelines	termination for the purpose of attaching lifelines to pulpits is allowed. Lifelines shall be 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 between supports of an
2.4.4.1 Lifeline	intermediate lifeline of all spans that are aft of the mast, deflection shall not exceed 5" (120mm) from
Deflection	a straight line between the stanchions.
2.4.5 Lifeline	
Stanchion Spacing	The maximum spacing between lifeline supports (e.g. stanchions and pulpits) shall be 87" (2.2m).
	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
2.4.6 Lifelines	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" (4mm) for
2.4.7 Lifelines	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
2.4.8 Toe Rails	that is 1-2" (25-51mm) above the deck will satisfy this requirement for boats 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 between the hulls are
2.4.9 Lifelines on	exempted from the lifeline requirement. All catamarans are exempted from the need for pulpits and
Trimarans	lifelines across the bow.
	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
2.5.1 Dewatering	be connected to a cockpit drain. The bilge pump shall not discharge into a cockpit unless that cockpit
pumps	opens aft to the sea.
2.5.2 Dewatering	A boat shall have a second permanently installed manual bilge pump of at least 10 GPM (37.8 liter per
pumps	minute) capacity, operable from below deck, meeting the same criteria as above.
	A boat shall have either fixed or portable electric pump(s) to remove ingress water from any
	compartment. This pump shall have a minimum rated capacity of 3,000 gal/hr, be operated by battery,
	main engine power or a separate engine. If portable electric-powered, power cables shall have
	connectors suitable for connection to the boats electrical system and have sufficient hose to discharge
2.5.4 Emergency	directly overboard or into the cockpit. A combination of permanently installed and portable pumps
dewatering pump	may be combined to meet the above requirement.
2.6 Mast and	A boat shall have the heel of a keel-stepped mast securely fastened to the mast step or adjoining
Rigging	structure.
	A boat shall have a mechanical propulsion system that is quickly available and capable of driving the
2.7.1 Mechanical	boat at a minimum speed in knots equivalent to the square root of LWL in feet (1.81 times the square
Propulsion	root of the waterline in meters) for 10 hours.
2.7.3 Mechanical	
Propulsion	The boat's engine and generator installation (if so equipped) must conform to ABYC, ISO, or U.S. Coast
Installation	Guard standards.
3	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
3.1.1 Lifejackets	least 22lbs (100N) of buoyancy meeting either U.S. Coast Guard or ISO specifications.
	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
3.1.2 Lifejacket	
	be compatible with the wearer's safety harness. If the life jacket is inflatable, it shall be regularly
Features	be compatible with the wearer's safety harness. If the life jacket is inflatable, it shall be regularly checked for air retention.
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-	checked for air retention.
-	checked for air retention. Each crewmember shall have a safety harness and compatible safety tether not more than 6'7" (2m)
Features	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 hook at its far end and a means to quickly disconnect the tether at the chest end.
Features 3.1.4 Harness	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 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
Features 3.1.4 Harness 3.2.1 Jacklines	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 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 racing.
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Features 3.1.4 Harness 3.2.1 Jacklines	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 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 racing.
Features 3.1.4 Harness 3.2.1 Jacklines 3.2.2 Clipping Points	 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 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 racing. A boat shall have adequate clipping points or jacklines that allow the crew to clip on before coming on deck and unclip after going below.
Features 3.1.4 Harness 3.2.1 Jacklines 3.2.2 Clipping	 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 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 racing. A boat shall have adequate clipping points or jacklines that allow the crew to clip on before coming on deck and unclip after going below. Multihulls must have jacklines or attachment points that are accessible when the boat is inverted.
Features 3.1.4 Harness 3.2.1 Jacklines 3.2.2 Clipping Points 3.2.3 Deck Safety	 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 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 racing. A boat shall have adequate clipping points or jacklines that allow the crew to clip on before coming on deck and unclip after going below. Multihulls must have jacklines or attachment points that are accessible when the boat is inverted. A boat racing between sunset and sunrise shall carry navigation lights that meet U. S. Coast Guard or
Features 3.1.4 Harness 3.2.1 Jacklines 3.2.2 Clipping Points	 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 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 racing. A boat shall have adequate clipping points or jacklines that allow the crew to clip on before coming on deck and unclip after going below. Multihulls must have jacklines or attachment points that are accessible when the boat is inverted.

	A boat shall have a second set of navigation lights that comply with US Coast Guard or applicable
3.3.2 Navigation	government requirements and which can be connected to a different power source than the primary
Lights	lights.
3.4 Fire	A boat shall carry fire extinguisher(s) that meets U.S. Coast Guard or applicable government
Extinguishers 3.5 Sound	requirements, when applicable.
	A best shall save sound making devises that mosts U.S. Coast Guard or applicable government
Producing	A boat shall carry sound-making devices that meets U.S. Coast Guard or applicable government
Equipment 3.6.1 Smoke	requirements, when applicable.
	A best shall some two COLAC snapps smalle flags not alder then the symination date
Flares	A boat shall carry two SOLAS orange smoke flares not older than the expiration date.
3.6.3 Hand Flares	A boat shall carry four SOLAS red hand flares not older than the expiration date.
3.6.5 Raft Flares	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 igniting
Overboard Sling	light stored on deck and ready for immediate use.
	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
3.7.2 Crew	requirement. Self-inflating apparatus shall be tested and serviced in accordance with the
Overboard	manufacturer's specifications. These items shall be stored on deck, ready for immediate use, and
Equipment	affixed in a manner that allows for a "guick release".
Equipment	A boat shall have a throwing sock-type heaving line of 50' (15m) or greater of floating polypropylene
3.7.3 Throw Line	line readily accessible to the cockpit.
5.7.5 THIOW LINE	
3.7.4 Throwable	A boat shall carry a Coast Guard or applicable government approved "throwable device". If the device
Device	carried under 3.7.1 or 3.7.2 satisfies this requirement, then no additional device is 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
3.8.1 Fixed Mount	antenna of at least 15" (381mm) in length, be connected to or have an internal GPS, and have the
VHF	assigned MMSI number (unique to the boat) programed into the VHF.
3.8.2 Handheld	A boat shall have a watertight handheld VHF radio or a handheld VHF radio with waterproof cover.
VHF	This radio shall have DSC/GPS capability with an MMSI number properly registered to the vessel.
3.8.4 VHF	
Emergency	A boat shall have an emergency VHF antenna with sufficient coax to reach the deck, and have a
Antenna	minimum antenna length of 15" (381mm).
	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%
3.9 AIS	power loss. AlS requirement for Coastal is effective January 1, 2024.
	A boat shall have a method of receiving weather information in addition to the fixed mount and hand
3.13 Weather	held VHF radio.
3.14 GPS	A boat shall carry a GPS receiver.
	· · · · · · · · · · · · · · · · · · ·
3.15 Crew	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.
Dia Sura Button	A boat shall carry a 406MHz EPIRB that is properly registered to the boat. This device shall be
3.16.1 EPIRB	equipped with an internal GPS.
3.17 Knot Meter	A boat shall have a knotmeter and/or distance-measuring instrument.
3.18 Depth	A boat shall have a permanently installed depth sounder that can measure to depths of at least 200 ft.
Sounder	(61m).
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2 4 2 4 2	A boat shall have a permanently mounted magnetic compass independent of the boat's electrical
3.19.1 Compass	system suitable for steering at sea.
3.19.2 Second	
Compass	A boat shall have a second magnetic compass suitable for steering at sea which may be handheld.
3.20 Charts	A boat shall have non-electronic charts that are appropriate for the race area.
	A boat shall have the ability to display sail numbers and letters of the size carried on the mainsail by an
Numbers	alternative means when none of the numbered sails is set.
	A boat shall carry soft plugs of an appropriate material, tapered and of the appropriate size, attached
3.22 Plugs	or stowed adjacent to every through-hull opening.
	A boat shall carry one anchor, meeting the anchor manufacturer's recommendations based on the
3.23 Anchor	yacht's size, with a suitable combination of chain and line.
	A boat shall carry a watertight, high-powered searchlight, suitable for searching for a person
3.24.1 Searchlight	overboard at night or for collision avoidance.
	A boat shall carry a watertight flashlight for each crewmember with spare batteries in addition to the
3.24.2 Flashlights	above.
	A boat shall carry a first aid kit and first aid manual suitable for the likely conditions of the passage and
3.25 Medical Kits	the number of crew aboard.
3.26 Radar	A boat shall carry an 11.5" (292mm) diameter or greater octahedral radar reflector or one of
Reflectors	equivalent performance.
3.27.1 Buckets	A boat shall carry two sturdy buckets of at least two gallons (8 liters) capacity with lanyards attached.
3.28 Safety	A boat shall post a durable, waterproof diagram or chart locating the principal items of safety
Diagram	equipment and through hulls in the main accommodation area where it can be easily seen.
3.29.1 Emergency	
Tiller	A boat shall have an emergency tiller, capable of being fitted to the rudder stock.
	A boat shall carry tools and spare parts, including an effective means to quickly disconnect or sever the
3.30 Spare Parts	standing rigging from the hull.
· · · ·	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
3.31 Identification	added during the first servicing of any new equipment.
	A boat shall carry a strong, sharp knife, sheathed and securely restrained which is readily accessible
3.32 Cockpit Knife	from the deck and/or cockpit.
3.33.1 Mainsail	
Reefing	A boat shall have a mainsail reefing capable of reducing the luff length by at least 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 shall be constructed from a highly
3.33.2 Trysail	visible material. A mainsail with a reef of at least 50% of P is an acceptable substitute for a trysail.
3.33.3 Heavy	A boat shall carry a heavy-weather jib (or heavy-weather sail in a yacht with no forestay) of area not
Weather Jib	greater than 13.5% height of the foretriangle squared.
	In addition to the sail required in 3.33.3, 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 constructed
3.33.4 Storm Jib	from a highly visible material.
5.55.4 510111 JID	וו טווו מ חוקחוץ אוזוטול ווומנכוומו.
2 25 Holyarda	A boat shall not be rigged with any halyard that requires a person to go aloft in order to lower a sail.
3.35 Halyards 3.36 Boom	A boat shall not be rigged with any halyard that requires a person to go aloft in order to lower a sail. A boat over 30' LOA (9.14m) shall have a means to prevent the boom from dropping if support from
Support	the mainsail or halyard fails.

3.37 Emergency Water	A boat shall carry 1 gallon (3.785 liters) per crewmember of emergency drinking water in sealed containers in addition to any other water carried aboard the boat and it shall be aboard after finishing.
3.39 Life Rafts	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 certified by the manufacturer or manufacturer-authorized inspection certificate as compliant with ISO 9650-1, or SOLAS, or ISAF (if made before 2016), or ORC (if made before January 1, 2004). Each 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 stow each life raft a deck-mounted rigid container 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 each life raft in a valise not weighing over 88 lbs. securely below deck and adjacent to the companionway. Life raft(s) shall hold current manufacturer-authorized certificate(s) of inspection.
3.40 Life Rafts	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 addition to the prior requirements.
4	Skills
4.1.1 Emergency Steering	A boat's crew shall be aware of multiple methods of steering the boat with the rudder disabled, and shall have chosen and practiced one method of steering the boat with the rudder disabled and be prepared to demonstrate said method of steering both upwind and downwind.
4.2 Man Overboard Practice	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 the water, and demonstrating a method of hoisting a crewmember back on deck, or other consistent means of reboarding the crewmember.
4.3.1 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 Offshore or International Offshore Certificate from US Sailing, or the equivalent from another national authority.
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.
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.