2019 Harvest N	Moon	Regatta ®	
Safety Equipme		· ·	
		ties may add or delete items based on the conditions of their specific races.	
		, 2019, revision 2019.0	
Section Name	#	Requirement	Harvest Moon 2019 Exceptions
		Coastal: Races not far removed from shorelines, where rescue is likely to be quickly	<u> </u>
Definition	1.0.2	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 Racing Rules of Sailing, the rules of Class	
Overall	1.1	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	
0		gear. S/he shall ensure that all safety equipment is at all times properly maintained	
Overall: Responsibility	1.2	and safely stowed and that the crew knows where it is kept and how it is to be used.	
		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	
Overall: Inspections	1.3	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	
Overall: Equipment		the boat and the size of the crew. This equipment shall be readily accessible while	
and Knowledge	1.4	underway and, when not in use, stored in such a way that deterioration is minimized.	
Overall: Secure		A boat's heavy items such as batteries, stoves, toolboxes, anchors, chain and internal	
Storage	1.5	ballast 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 and ballasted, be fully seaworthy and shall meet the standards set	
Overall: Strength of		forth herein. A boat's shrouds and at least one forestay shall remain attached at all	
Build	1.6	times.	

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Section Name	#	Requirement	Harvest Moon 2019 Exceptions
		A boat's hull, including, deck, coach roof, windows, hatches and all other parts, shall	
Overall: Watertight		form an integral watertight unit, and any openings in it shall be capable of being	
Integrity	1.7	immediately secured to maintain this integrity.	
		A boat's companionway(s) shall be capable of being blocked off to main deck level	
Hull and Structure:		(sheerline). The method of blocking should be solid, watertight, and rigidly secured, if	
Hull Openings	2.1.1	not permanent.	
Hull and Structure:		A boat's hatch boards, whether or not in position in the hatchway, shall be secured in	
Hull Openings	2.1.2	a way that prevents their being lost overboard.	
		A boat's entire cockpit shall be solid, watertight, strongly fastened and/or sealed.	
Hull and Structure:		Weather-tight seat hatches are acceptable only if capable of being secured when	
Cockpit	2.1.3	closed.	
		A boat's cockpit drains shall be capable of draining six inches of water in 5 minutes.	
Hull and Structure:		One square inch (645mm2) of effective drain per eight square feet (0.743m2) of	
Cockpit	2.1.4	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 exceed 0.08 x LOA x Max. Beam x Freeboard aft. The	
	2.1.5.2	cockpit sole shall be at least 0.02 x LOA above LWL.	
		A boat's through-hull openings below the waterline shall be equipped with sea cocks	
Hull and Structure:		or valves, except for integral deck scuppers, speed transducers, depth finder	
Through Hulls	2.1.6	transducers and the like; however a means of closing such openings shall be provided.	
Hull and Structure:	2.1.0	The boat must have a stability index greater than or equal to 103 or meet the	
Stability	2.2.2	requirements of ISO 12217-2B.	
Hull and Structure:	2.2.2	A boat with moveable or variable ballast (water or canting keel) shall comply with the	
Stability	2.2.3	requirements of Appendix K.	
Stability	2.2.5	A boat's deck including the headstay shall be surrounded by a suitably strong	
Hull and Structure:		enclosure, typically consisting of lifelines and pulpits, meeting the requirements in	
Lifelines	2.4.1	2.4.2 to 2.4.8.	
Hull and Structure:	2.4.1	Z.4.2 W Z.4.0.	
Lifelines	2.4.2	A boat's stanchion and pulpit bases shall be within the working deck.	
Hull and Structure:	2.7.2	Bow pulpits may be open, but the opening between the vertical portion of stanchion	
Lifelines	2.4.3	pulpit and any part of the boat shall not exceed 14.2" (360mm).	
Litellites	4.4.3	pulpit and any part of the boat shall not exceed 14.2 (300mm).	

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Section Name	#	Requirement	Harvest Moon 2019 Exceptions
Hull and Structure: Lifelines	2.4.4	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 taut.	Vinyl coated lifelines may be used provided any stained coating is removed to establish that the lifelines have not corroded.
Hull and Structure:		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	
Lifelines Hull and Structure:	2.4.4.1	line between the stanchions.	
Lifelines	245	The maximum spacing between lifeline supports (e.g. stanchions and pulpits) shall be	
Lifelines	2.4.5	87" (2.2m).	
Hull and Structure: Lifelines	2.4.6	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).	
Hull and Structure: Lifelines	2.4.7	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).	
Hull and Structure: Lifelines	2.4.8	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.	
Hull and Structure:		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.	

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Section Name	#	Requirement	Harvest Moon 2019 Exceptions	
		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		
Hull and Structure:		cockpit drain. The bilge pump shall not discharge into a cockpit unless that cockpit		
Dewatering pumps	2.5.1	opens aft to the sea.		
Hull and Structure:		A boat shall have a mechanical propulsion system that is quickly available and capable		
Mechanical		of driving the boat at a minimum speed in knots equivalent to the square root of LWL		
Propulsion	2.7.2	in feet (1.8 times the square root of the waterline in meters) for 4 hours.		
Hull and Structure:	2.7.2	in rect (1.0 times the square root of the waterime in meters) for 4 hours.		
Mechanical		The boat's engine and generator installation (if so equipped) must conform to ABYC,		
Propulsion	2.7.3	ISO, or U.S. Coast Guard standards.		
Tropulsion	2.7.5	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 Equipment:		inherently buoyant off-shore life jacket that provides at least 22lbs (100N) of buoyancy		
Personal	3.1.1	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		
Safety Equipment:		boat's or wearer's name, and be compatible with the wearer's safety harness. If the		
Personal	3.1.2	life jacket is inflatable, it shall be regularly checked for air retention.		
		Each crewmember shall have a safety harness and compatible safety tether not more		
0.6.5		than 6'7" (2m) long with a minimum tensile strength of 4500 lb. (20kN). The tether		
Safety Equipment:		shall have a snap hook at its far end and a means to quickly disconnect the tether at		
Personal	3.1.4	the chest end.		
Cafaty Equipments		A boat shall carry jacklines with a breaking strength of at least 4500 lb. (20kN) which		
Safety Equipment:	221	allow the crew to reach all points on deck, connected to similarly strong attachment		
Deck Safety Safety Equipment:	3.2.1	points, in place while racing.  Multihulls must have jacklines or attachment points that are accessible when the		
Deck Safety	222	vessel is inverted.		
Deck Salety	3.2.3	vesser is inverted.		

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Safety Equipme		<u> </u>	
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Section Name	#	Requirement	Harvest Moon 2019 Exceptions
		A boat racing between sunset and sunrise shall carry navigation lights that meet U.S.	
Safety Equipment:		Coast Guard or applicable government requirements mounted so that they will not be	
Navigation Lights	3.3.1	obscured by the sails nor be located below deck level.	
Safety Equipment: Fire		A boat shall carry fire extinguisher(s) that meets U.S. Coast Guard or applicable	
	3.4	government requirements, when applicable.	
Safety Equipment:			
Sound Producing		A boat shall carry-sound-making devices that meets U.S. Coast Guard or applicable	
Equipment	3.5	government requirements, when applicable.	
Safety Equipment: Visual Distress Signals	262		SOLAS Flares are strongly recommended but current US Coast Guard approved flares may be used in lieu of SOLAS flares.
Visual Distress Signals	3.6.2	A boat shall carry one SOLAS orange smoke flares not older than the expiration date.	
Safety Equipment: Visual Distress Signals	3.6.6		SOLAS Flares are strongly recommended but current US Coast Guard approved flares may be used in lieu of SOLAS flares.
Safety Equipment:			
Visual Distress Signals	3.6.5	Boat flares stored inside of life rafts may not be used to satisfy the flare requirement.	
Safety Equipment:		A boat shall carry a Lifesling or equivalent man overboard rescue device equipped with	
Man Overboard	3.7.1	a self igniting 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 requirement. Self-inflating apparatus shall be tested and	
		serviced in accordance with the manufacturer's specifications. These items shall be	
Safety Equipment:		stored on deck, ready for immediate use, and affixed in a manner that allows for a	
	3.7.2	"quick release".	
Safety Equipment:		A boat shall have a throwing sock-type heaving line of 50' (15m) or greater of floating	
Man Overboard	3.7.3	polypropylene line readily accessible to the cockpit.	
		A boat shall carry a Coast Guard or applicable government approved "throwable	
Safety Equipment:		device". If the device carried under 3.7.1 or 3.7.2 satisfies this requirement, then no	
Man Overboard	3.7.4	additional device is needed.	

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2019 Harvest N		<u> </u>	
Safety Equipme			
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Effective Date: Janu	uary 1,	2019, revision 2019.0	
Section Name	#	Requirement	Harvest Moon 2019 Exceptions
		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	
Safety Equipment:		shall have DSC capability, have an antenna of at least 15" (381mm) in length, be	
Emergency		connected to or have an internal GPS, and have the assigned MMSI number (unique to	
Communications	3.8.1	the boat) programed into the VHF.	
Safety Equipment:		A boat shall have a watertight handheld VHF radio or a handheld VHF radio with	
Emergency		waterproof cover. This radio shall have DSC/GPS capability with an MMSI number	
Communications	3.8.2	properly registered to the vessel.	
Safety Equipment:			
Emergency			
Communications	3.14	A boat shall carry a GPS receiver.	
Safety Equipment:			
Emergency		A boat shall carry an electronic means to record the position of a man overboard	
Communications	3.15	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	An EPIRB or Personal Locator Beacon is
Safety Equipment:		floating 406MHz Personal Locator Beacon, registered to the owner with a notation in	
Emergency		the registration that it is aboard the boat. This device shall be equipped with an	highly recommended but is not required.
Communications	3.16.2	internal GPS.	This may change in future years.
Safety Equipment:		A boat shall have a permanently installed depth sounder that can measure to depths	
Navigation	3.18	of at least 200 ft. (61m).	
Safety Equipment:		A boat shall have a permanently mounted magnetic compass independent of the	
Navigation	3.19.1	boat's electrical system suitable for steering at sea.	
Safety Equipment:			
Navigation	3.20	A boat shall have non-electronic charts that are appropriate for the race area.	
Safety Equipment:		A boat shall carry soft plugs of an appropriate material, tapered and of the appropriate	
Damage Control	3.22	size, attached or stowed adjacent to every through-hull opening.	
		A boat shall carry one anchor, meeting the anchor manufacturer's recommendations	
Gear: Anchoring	3.23	based on the 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	
Gear: Lights	3.24.1	person overboard at night or for collision avoidance.	
		A boat shall carry at least two watertight flashlights with spare batteries in addition to	
Gear: Lights	3.24.3	the requirement of 3.24.1.	

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Section Name	#	Requirement	Harvest Moon 2019 Exceptions
		A boat shall carry a first aid kit and first aid manual suitable for the likely conditions of	
Gear: Medical Kits	3.25	the passage and the number of crew aboard.	
		A boat shall carry an 11.5" (292mm) diameter or greater octahedral radar reflector or	
Gear: Radar Reflectors	3.26	one of equivalent performance.	
		A boat shall carry two sturdy buckets of at least two gallons (8 liters) capacity with	
	3.27.1	lanyards attached.	
Gear: Emergency		Wheel steered boats shall have an emergency tiller, capable of being fitted to the	
Steering	3.29.2	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	
Gear: Identification	3.31	servicing of any new equipment.	
Sails: Mainsail Reefing	3.33.1	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	
Rigging: Halyards	3.35	to lower a sail.	
Rigging: Boom		A boat over 30' LOA (9.14m) shall have a means to prevent the boom from dropping if	
Support	3.36	support from the mainsail or halyard fails.	
Skills: Emergency			
Steering	4.1.2	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 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	
Skills: Man Overboard	4.2	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 attended a half-	
		day, one-day, or two-day US Sailing Safety at Sea Seminar within the last 5 years,	Note: This requirement is not in effect in
Skills: Safety at Sea		including online courses when available, or other courses as accepted by US Sailing or	2019 but attendance at the HMR Safety Day
Training	4.3.2	other national authority.	is highly encouraged.

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Safety Equipme	nt Re	quirements				
<b>Note: Organizing A</b>	uthorit	ies may add or delete items based on the conditions of their specific races.				
Effective Date: January 1, 2019, revision 2019.0						
Section Name	#	Requirement	Harvest Moon 2019 Exceptions			
		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,					
Skills: Crew Training						