

BYC Mackinac Safety and Inspection Requirements Overview / Changes

Note: This ppt/presentation is not a replacement for the official race SER. It is each team's responsibility to adhere to the actual SER regardless of any unintentional differences or miss-representations contained or expressed herein.

Agenda / Discussion Topics

1. Mackinac Race Safety Requirements (SER's)

- Overview / Background
- Equipment
- Crew Training

2. Inspection Process and Tips

- Pre-Race
- @ the Island
- Tips

3. Race Withdraws

Process and Reporting



SER Overview / Background

Key points:

- Background on SER's
- Minimal changes yr-2-yr
- Alignment with Chicago
- Required and Recommended



SER Overview / Background



World Sailing OSR Offshore Special Regulations

http://www.sailing.org/specialregs

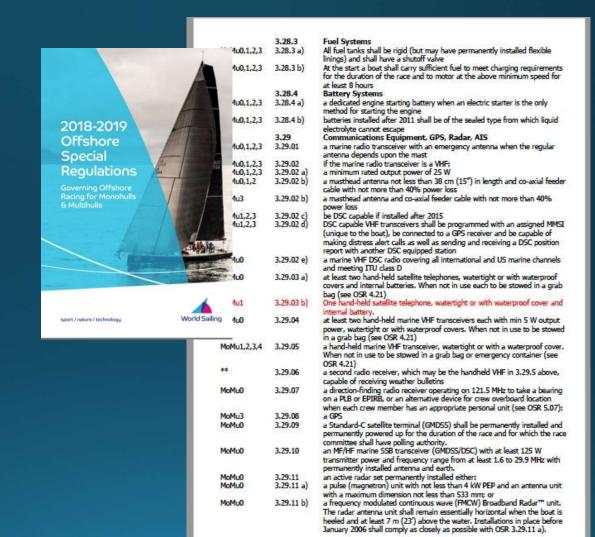


US Sailing SER Safety Equipment Requirements

http://www.ussailing.org/safety/equipment-and-requirements/

World Sailing OSR's

- + Comprehensive
- + Informative
- + Broad Input
- + Derived from real world emergencies & fatalities
- Complex to decipher
- Address Cat's 0-6 (7)
- Multiple Appendices
- Over 70 pages
- Still some ambiguity



US Sailing SER's (key differences to W/S OSR's)

- Easier to understand
- Self-contained
- 3 categories (vs 7)
 - Nearshore
 - Coastal
 - Ocean.
- More compact
- Member Input
- Local "recommendations"

Hull and A boat's companionway(s) shall be capable of being blocked off to main deck level (sheerline). The method of blocking should be solid, peppings 2.1.1 watertight, and rigidly secured, if not permanent.		Ocean	Coastal	Nearshore	
		×	×		
Hull and Structure: Hull Openings	2.1.2	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.	×		
Hull and Structure: Cockpit	2.1.3	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.	x	×	
Hull and Structure: Cockpit	A boat's cockpit drains shall be capable of draining six inches of dwater in 5 minutes. One square inch (645mm2) of effective drain per eight square feet (0.743m2) of cockpit sole will meet this		×	×	
Hull and Structure: Cockpit	2.1.5.1	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 0.06 x LOA x Max. Beam x Freeboard aft. The cockpit sole shall be at least 0.02 x LOA above LWL	×		
	2.1.5.2	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.		*	
Hull and Structure: Through Hulls	2.1.6	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.	×	×	
Hull and Structure: Stability	2.2.1	The boat must have a stability index greater than or equal to 115, or meet the requirements of ISO 12217-2A	х		
Hull and Structure: Stability	222	The boat must have a stability index greater than or equal to 103 or meet the considerates of ISO 12217-28.			

World Sailing & US Sailing - Race Categories

Cat	Description	US Sailing
0	Trans-oceanic races, including races which pass through areas in which air or sea temperatures are likely to be less than 5 degrees Celsius other than temporarily, where yachts must be completely self-sufficient for very extended periods of time, capable of withstanding heavy storms and prepared to meet serious emergencies without the expectation of outside assistance.	Ocean
1	Races of long distance and well offshore, where yachts must be completely self-sufficient for extended periods of time, capable of withstanding heavy storms and prepared to meet serious emergencies without the expectation of outside assistance.	Ocean
2	Races of extended duration along or not far removed from shorelines or in large unprotected bays or lakes, where a high degree of self-sufficiency is required of the yachts.	Coastal
3	Races across open water, most of which is relatively protected or close to shorelines.	Near Shore
4	Short races, close to shore in relatively warm or protected waters normally held in daylight.	Near Shore

OSR & SER - The Big Picture Provisions

Uniformity	1.01.1 The purpose of the Offshore Special Regulations (OSR) is to establish uniform minimum equipment, accommodation and training standards.
Supplemental	1.01.2 The OSR do not replace, but rather supplement, the requirements of governmental authority, Classification Society certification, the Racing Rules of Sailing (RRS), Equipment Rules of Sailing (ERS), class rules and Rating Systems.
No Guarantee	1.01.3 Use of the OSR does not guarantee total safety of the boat and her crew
RRS & PIC Responsibility	 1.02.1 Under RRS 4 the responsibility for a boat's decision to participate in a race or continue racing is hers alone. The safety of a boat and her crew is the sole and inescapable responsibility of the Person in Charge 2.2 Neither the establishment of the OSR, nor their use by Organizing Authorities, nor the inspection of a boat under the OSR in any way limits or reduces the complete and unlimited responsibility of the Person in Charge

US Sailing & Mackinac SER Structure

http://www.bycmack.com/main_documents.cfm

Section	Description
1	General Requirements
2	Hull & Structure Requirements
3	Safety Equipment Requirements
4	Skills Requirements (Training)
5	Hull & Structure Recommendations
6	Safety Equipment Recommendations
7 & 8	Double Handed Requirements



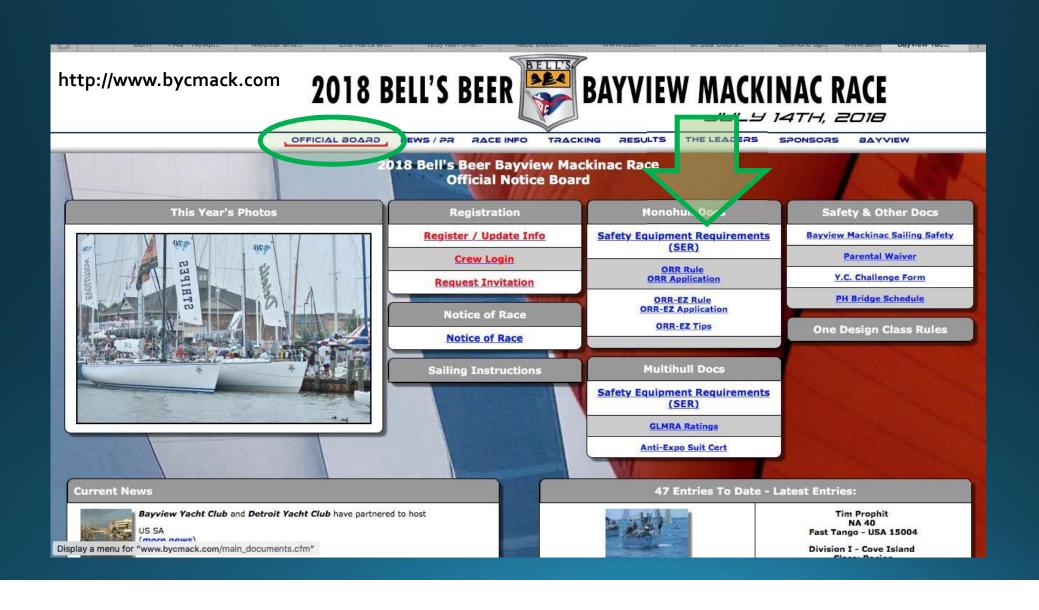
2018 BELL'S BEER BAYVIEW MACKINAC RACE Saturday, July 14, 2018

The World's Langest Continuously Run Long Distance Freshwater Yacht Race

Safety Equipment Requirements (SER)

MONOHULL

- General Requirements
 Purpose The SIR establish uniform minimum expaigment, accommodation and training standards to beast race in the 2018 feet's feet deprice Machinar (the "Bars"). The SIR do standard to the standard of the standard sta



2018 Mackinac SER Overview (key examples)

Required		Highly Recommended		
1.3	A boat may be inspected at any time	5.2	Batteries:a boat shall carry a separate battery	
3.1.1	Lifejackets: A boat shall have at least one (1) wearable U.S. Coast Guard PFD for each person 3.1.2: Each PFD shall be equipped with a whistle and a water proof light.	6.1.3	PFD Equipment:that each PFD shall be equipped with crotch or leg straps	
3.7.2	Pole, Flag, Lifebuoy, Light - A boat shall have a man overboard pole and flag, with a lifebuoy, a self-igniting light, a whistle, and a drogue attached	6.2.1	Lifesling [®] :a boat shall carry a Lifesling [®] or equivalent man overboard rescue device	
3.7.4	MOB Recording - A boat shall carry an electronic means to record the position of a man overboard within ten seconds 3.9 Shall have a GPS Receiver			
3.8.1	VHF Radio - A boat shall have an installed VHF radio connected to a masthead antenna Such radio shall have DSC (Digital Selective Calling) capability, be connected to or have an internal GPS, and have the assigned MMSI #.	6.3.2	EPIRB:a boat shall carry either a 406MHz EPIRB which is properly registered to the boat, or a floating 406MHz Personal Locator Beacon	
3.8.2	Handheld VHF Radio - A boat shall have a watertight handheld VHF radio or a handheld VHF radio with a waterproof cover	6.4	Life Raft:a boat shall carry adequate inflatable life raft(s) designed for saving life at sea with designed capacity for containing the entire crew	

Personal Equipment Review / Demo's

- Todd J to show some actual Personal equipment
 - Tethers
 - Harness Leg Straps
 - PLB
 - DanBouy



SER Crew Training: 4.2 Man Overboard Training

- Annually, two-thirds of the boat's racing crew shall practice man-over-board 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 re-boarding the crew member.
- ☐ A Crew Overboard Drill Certificate of such practice shall be signed by participating crew members and kept aboard the boat.
- The certificate shall be downloaded from the "Documents/Forms" section of the Race website; www.bycmack.com.
- □ Practice of the "Quick Stop" man-overboard procedure is strongly recommended

SER Crew Training: 4.3 Safety @ Sea Options

These safety options set forth below are required for all boats, but especially for those crewmembers who are participating in this race for the first time and for those boats which are participating in the race for the first time.

30% of crew (not less than 2) required to have completed one of the following:

- US Sailing Safety @ Sea Seminar (Valid ½ day Coastal or Offshore Certificate)
 - @ Bayview & DYC April 21 & 22
- DRYA Winter Seminar Attendance (min 4 sessions)
 - Link: http://drya.org/HTMLpages/SeminarNotes18.html
- BYC Safety Articles Self Study (min 8 articles)
 - Link: http://www.bycmack.com/main_safety.cfm

DRYA Seminars

Ref the "@@" flagged seminars that are safety related and qualify for the 2018 Mac SER training requirement

	(@@) qualifies as a BYC MAC Safety Seminar			
DATE	SESSION	Presentation	YouTube	
Jan 10	Transatlantic Voyage @ GPYC	335	Σ.	
	Lake Invaders @ GPYC	Lake Invaders.pdf		
Jan 11 (@@)	BYC Macinac Safety - what to expect in an inspection @ BYC			
Jan 17 (@@)	First Aid at Sea - Common sense solutions to injuries and illness at sea @ BYC	,	1	
Jan 31 (@@)	USCG Rescue @ NSSC		-45	
Feb 7 (@@)	Offshore Spars on Masts and Rigging @ GLYC	307	127 Tec	
Feb 21	Race Organization and Management – From Beer Cans to the Olympics @ GPSC			
Feb 28	How to Maximize your Experience racing in DRYA @ BYC			
Mar 7	Radio Controlled Sailing @ DYC		40.	
Mar 21	The Protest Process – From Incident to Decision and How to Survive "The Room" @ NCYC	11	41	
Mar 28 (@@)	Annapolis Safety at Sea Video @ PHYC	9,"	011	

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Inspections - NOR

- 9.1 **Each competing owner and Person-In-Charge** is responsible for assuring that the boat complies with the SER. However, as a courtesy *and without relieving the Person-In-Charge of responsibility*, the SER Compliance Committee will be available for consultation before the Race.
- 9.2 The Race Committee may also require any competitor to submit to an SER Compliance Committee safety consultation before the Race. Such consultations may be arranged through the Race Committee by submitting a request via e-mail to mackchair2018@byc.com or by mail to BYC
- 9.3 The SER Compliance Committee will inspect randomly selected boats immediately after finishing the Race at Mackinac Island. Boats not in compliance with the SER or hindering the inspection process will be subject to protest by the Race Committee.

Inspections - SER

1.3 A boat may be inspected at any time by an inspector or measurer of the Organizing Authority.

If she does not comply with these regulations her entry may be rejected or she will be subject to a protest filed by the Race Committee. A violation of the Safety Equipment Requirements may result in a penalty other than disqualification.

Pre-Race Safety Consultations

- Offered as as a courtesy by request (as available)
- May be required (first time entrants, etc)
- Does not exempt a boat from a later inspection
- If required/requested, please arrange for these at the earliest convenience as it gets harder as the race gets closer.

2018 Inspection Process (new for 2018)

- Planning on designation of <u>safety inspection dock/area</u> for selected boats when finishing (before docking)
 - Alerted via VHF at finish to proceed to inspection area before docking
 - Boats may still be inspected after docking (as before)
 - Inspections are selected from top, middle, and bottom finishers – focus on "safety" vs winner's compliance

Inspection: Expectations & Tips

1. Inspectors are volunteers

- Mission to help us conduct a safe and fair race for the benefit of all participants.
- While you may be cold/wet/tired, chances are they also have been up for hours – working boats as they finish, in whatever conditions exist at the time, late @ night, etc.
- They are not the adversary if you are not prepared it is your fault not theirs.
- Like all of us, they like to be treated with courtesy- thank them for their efforts to help make or sport fun, safe, possible.

Inspection: Expectations & Tips

2. Inspectors generally conduct a spot check (via an inspection card)

- The inspectors are trying to get through an assigned schedule which can be hectic as boats are finishing.
- They have an assigned list of things they required to check they are trying to do their job efficiently and as assigned – they did not make the rules.
- There is no need to show/discuss items that are not on their inspection card/checklist (unless requested) – this just slows down the process.
- If you are prepared, courteous, and compliant, it goes much faster.

Inspection: Expectations & Tips

3. Be prepared in case you are selected

- While it is wise to have multiple (all) crew know the SER's, equipment locations, and emergency procedures, Have a crew member (or skipper) pre-assigned to handle the inspection request. All the crew should know who this is (and how to contact them).
 - Be knowledgeable about the SER's and your equipment, locations, use, procedures, etc.
 - Be organized. The race can be hectic. Keep important doc's and equipment handy, safe, and in it's proper location when not in use (SER 1.4) not buried under a pile of wet sails.
 - The Crew Man overboard Certificate is required to be on the race website form.
 - Another "best practice" is to take a picture of your pre-race prep/training to demonstrate competence: backup tiller, rudderless steering, storm sail rigging, etc.
 - If other crew members are required to address specific requirements/requests (i.e. demonstrate rudderless steering), know who is assigned to do that and have them available.
 - The inspectors may ask about recommended items (as part of our safety data gathering efforts)
- You may want to do a mock inspection drill with your crew, some evening after a
 pre-race practice sail/drill, so everyone knows what to expect

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Withdrawals (2017 Sailing Instructions)

14. BOATS RETIRING FROM THE RACE

A boat that retires from the Race for any reason SHALL notify the Race Committee on Mackinac Island by telephone at 906-847-6179 as soon as possible. The boat also shall notify the United States Coast Guard via VHF channel 16, if possible. If the boat cannot establish radio contact with the United States Coast Guard, she shall notify a United States Coast Guard station nearest the port of refuge. Failure to comply with this Sailing Instruction may result in a protest by the Race Committee and/or denial of an invitation to participate in future Mackinac Races.

18. SAFETY AT SEA

Bayview Yacht Club supports the US SAILING Safety at Sea Reporting Program, requiring that boats failing to finish the race report the reasons and circumstances to US SAILING in writing. In addition, it is requested that a report be led with the Race Committee on any significant accident, or boat or equipment failure, even if the boat finishes.

Withdrawals and Emergencies

- Withdrawal info is reviewed to see if there is a need for modifying the NOR, SI's, or SER's.
- 2018 SI's may change to a local withdrawal reporting requirement (vs US Sailing as the primary)
- In 2017, the BYC race had 14 withdrawals and the CYC race had 93 withdrawals. Information from the person in charge gives important feedback, especially for equipment failures and requirements.
- http://www.ussailing.org/safety/big-boat-safety-atsea/safety-at-sea-withdrawal

US Sailing Withdrawal Form Questions

Person In Charge - name and contact information

Boat Name, sail number and class

Narrative account of the circumstances relative to your withdrawal, including the approximate hour, weather conditions, number of persons aboard and the reason for withdrawal.

If structural or mechanical failure were the cause, please describe in detail.

Your evaluation of the seagoing capability of your crew will be helpful. Include any radio contacts (EPIRB and email too) made and their responses.

Describe injuries, if any.

Was any gear deployed and not picked up? If so, what?

Any additional information you care to add will be appreciated, such as attempts to repair, assistance rendered by other vessels, etc.

Note: In an effort to better understand products that contribute to failure of passage, please include specific mention of product performance deficiencies related to this incident.

Questions

- Happy to help here if we can...
 - ...Formal SER & Inspection policy questions and responses will go through the MRA
- Address future questions to:
 - mackchair2018@byc.com
 - safety@byc.com

