

MONOHULL EQUIPMENT CHECKLIST

March 2008

Please note that this is the final draft of the equipment checklist for the 2008 Bermuda Ocean Race (BOR). This is based on the latest information as of this date. The list will be updated as new information becomes available so keep checking this website.

BOR 2008 EQUIPMENT CHECKLIST

The following checklist is a condensed list which will be used by equipment inspectors for all yachts entered in the 2008 BOR. It will, when completed and signed by the owner (or skipper) and equipment inspector act as a certificate of compliance for eligibility and equipment compliance. It was derived from the ISAF Offshore Special Regulations for Race Category 1 Monohulls, modified where required by the Race Instructions and the BOR Equipment Inspection Committee. Its purpose is to establish uniform minimum equipment, accommodation and training standards for yachts racing offshore. It is not a replacement however for the ISAF Special Regulations, 2008-09 for Race Category 1 Monohulls document. This document is available free at www.sailing.org. Click on "Documents and Rules" and then on "Category 1 Monohulls". You can use this list however to get started in equipping your vessel as it is a lot less daunting than the Offshore Special Regulations (OSR) document.

Some of the items in the OSR's are not reasonable to meet and we will therefore make modifications or deletions and publish them on this Website. For example, the OSR's requirement in section 4.08.4 for two crew members to hold Senior First Aid Certificates shall not apply. If you find a requirement that is not reasonable for your vessel, you can submit a letter requesting a change. For example, It would not be fair to require a Nonsuch 33 to carry a storm jib and a heavy weather jib.

The inspection is a courtesy and it remains the responsibility of the owner or skipper to comply with all requirements. Inspections should take place as soon as possible after the Race Entry package is received and the vessel is ready. Inspections should be complete and all deficiencies remedied before June 12, 2008.

If you have any questions or suggestions please feel free to call Allen Faurot at 410-266-7584, E-mail elancer35@gmail.com or me at 410-673-4325, E-mail alphawolf@hotmail.com.

Alex Zahl, BOR Equipment Inspections.

BOR 2008 EQUIPMENT INSPECTION CHECKLIST

YACHT: _____

SKIPPER: _____

INSPECTOR: _____

All entrants will have on board a current copy of the US Sailing Racing Rules of Sailing and a current copy of the ISAF Offshore Special Regulations Governing Offshore Racing for Monohulls. _____

All of this equipment needs to be displayed openly and readily for the inspector to see.

Section 1: Owner or skipper has read and understands Section 1.02, _____

Responsibility of person in charge from the OSR and Section 2: owner or skipper has read and complies with Section 2.03, General Requirements, from the OSR. _____

Section 3: It is not the Equipment Inspectors responsibility to determine the structural features, stability and fixed equipment of the vessel, but it is the sole responsibility of the owner or skipper.

3.03: It is understood by the Race Committee that the majority of vessels in the US do not have certificates of plan approval or written statements by the designer and builder for safety standards to meet Special Regulations Category 1, nor are most builders willing to provide such documents. We refer you back to Section 1.

3.08.1 No hatch forward of the maximum beam station shall open in such a way that the lid or cover moves into the open position towards the interior of the hull (excepting ports having an area of less than 0.071m² (110 sq in)). _____

3.08.2: A hatch shall be:

- c) capable of being firmly shut immediately and remaining firmly shut in a 180 degree capsized (inversion). _____

3.08.4: Companionway hatch has securing arrangement operable from on deck and below with blocking device. Blocking device capable of being retained in position with the hatch open, and secured with a line for the duration of the trip to prevent being lost overboard. _____

3.10: Seacocks or valves below LWL on all through hull fittings shall be accessible and tested to function. A diagram showing the location of all seacocks will be posted. _____

3.12: Heel of keel stepped mast securely fastened to step or adjoining structure. _____

3.14: Pulpits, stanchions, lifelines securely installed and "taut". _____

As a guide, when a deflecting force is applied to a lifeline midway between supports, the lifeline should not deflect more than 2 inches.

Lifelines shall be stranded stainless steel and shall be uncoated.

3.18: Toilet permanently installed. _____

3.19: Bunks permanently installed. _____

3.20: Cooking stove permanently installed or securely fastened with accessible fuel shut-off. _____

3.21: Permanently installed water tank(s) dividing water into two compartments with permanently installed water delivery system and a separate emergency water container for 2.4 US gallons. _____

3.23; Two permanently installed manual bilge pumps with permanent handles or attached with lanyards, one above and the other below deck with permanently installed discharge pipes, and two buckets of stout construction with lanyards. _____

3.24: Marine magnetic compass permanently installed and a second compass which may be hand-held. _____

3.27: Navigation lights mounted at no less height than immediately under upper lifeline. Meets intensity requirement. Reserve navigation lights of same intensity with an alternate power source. Note, a masthead tricolor light wired to a separate battery, in addition to the standard deck lights would meet this requirement. _____

3.28: Permanently installed propulsion engine, exhaust, fuel supply and tanks. (flexible tank not permitted) with minimum fuel to motor at hull speed for a minimum of 8 hours. (Min. hull speed is determined by $1.8 \times \text{square root of LWL.}$) A separate battery is required if electric motor is only means of starting. _____

3.29: VHF Marine Radiotelephone with 25 watts output, and masthead antenna. _____

An emergency VHF antenna.

Watertight handheld VHF radio.

Radio capable of receiving weather bulletins offshore.

GPS

Section 4

4.01: Sail letters or numbers, either US Sailing numbers, the hull number, or the yacht name clearly marked on weather cloths on each side. Your identification method should be included in your race application.

4.02.1 To assist in SAR location:

a) Each yacht is required to show at least 1 sq yd of fluorescent pink or orange or yellow color as far as possible in a single area on the coachroof and/or deck where it can best be seen.

4.03: Soft wood tapered plugs attached to each through-hull opening.

4.04: Jackstays attached to through bolted deck plates (or other suitable and strong anchorage fitted on deck, both sides, of 3/16 inch 1x19 stainless wire or webbing of equivalent strength.

Clipping Points attached to through bolted or other suitable strong anchorage point, to enable two-thirds of the crew to be clipped on simultaneously without depending on jackstays.

4.05: At least two readily available fire extinguishers accessible in suitable and different parts of the boat.

4.06: At least two anchors with suitable combination of chain and rode, ready for immediate use. Please note that the St. George's Dinghy Club requires that any yacht that wishes to tie up to their dock will need a large anchor with at least 300 feet of rode, and suitable fenders for each side of the vessel.

4.07: A watertight spotlight and a watertight flashlight both with spare batteries and bulbs.

4.08: First aid manual and first aid kit. Contents should reflect the number of persons aboard the boat and the medical conditions of the same. At least one member of the crew shall be First Aid certified with a certification card valid within 12 months.

4.09: A foghorn shall be provided. _____

4.10: A radar reflector shall be provided. The US Sailing prescription requires octahedral reflectors shall have a minimum diameter of 12 inches or a minimum documented "equivalent echoing area" of 6 sq. m. _____

4.11: Navigation charts (not solely electronic), light list and plotting equipment shall be provided. Charts include: Chesapeake Bay, entrance to Bermuda, St. Georges harbor, north to Cape May, and south to Cape Hatteras. (Don't forget you have to come back.) _____

4.12: Durable safety equipment location chart, displayed in the main accommodation area, clearly marked with the location of principal items of safety. _____

4.13: Depth sounder or lead line. _____

4.14: Speedometer or log. _____

4.15: Emergency steering shall be provided if principal steering method is other than an unbreakable metal tiller. Crews must be aware of alternate methods of in the event of rudder loss. The emergency steering system shall be available for inspection. _____

4.16: Tools and spares including a means to quickly sever or disconnect rigging from the hull. _____

4.17: Yacht's name shall be on miscellaneous buoyant equipment, such as lifejackets, cushions, lifebuoys, lifeslings, grab bags, etc. _____

4.19: 406 MHz EPIRB, registered. _____

Registration number is. _____

4.20: Life raft, capable of carrying the whole crew. Meets SOLAS or OSR appendix A, have an up to date inspection certificate. Stowed on deck or in a watertight or self draining compartment but capable of being deployed within 15 seconds. For a yacht with an age or series date before June 2001, a liferaft may be packed in a valise not exceeding 40 kg securely stowed below deck adjacent to a companionway. _____

4.21: Grab bag. a) *A yacht is recommended to have for each liferaft, a grab bag. A grab bag should have inherent flotation, at least a 7 sq in area of fluorescent orange color on the outside, should be marked with the name of the yacht, and should have a lanyard and clip.*

b) *Note: it is not intended to duplicate in a grab bag items required by other OSRs to be on board the yacht - these recommendations cover only the stowage of those items*

4.21.3: Grab Bag Recommended Contents

a) *2 red parachute and 2 red hand flares and cyalume-type chemical light sticks (red flares compliant with SOLAS) (see 4.23)*

b) *watertight hand-held EPFS (Electronic Position-Fixing System) (eg GPS) in at least one of the grab bags carried by a yacht*

c) *SART (Search and Rescue Transponder) in at least one of the grab bags carried by a yacht*

d) *a combined 406MHz/121.5MHz or type "E" EPIRB (see OSR 4.19.1) in at least one of the grab bags carried by a yacht*

e) *water in re-sealable containers or a hand-operated desalinator plus containers for water*

f) *a watertight hand-held marine VHF transceiver plus a spare set of batteries*

g) *a watertight flashlight with spare batteries and bulb*

h) *dry suits or thermal protective aids or survival bags*

i) *second sea anchor for the liferaft (not required if the liferaft has already a spare sea anchor in its pack) (recommended standard ISO 17339) with swivel and >30m line diameter >9.5 mm*

j) *two safety tin openers (if appropriate)*

k) *first-aid kit including at least 2 tubes of sunscreen. All dressings should be capable of being effectively used in wet conditions. The first-aid kit should be clearly marked and re-sealable.*

l) *signaling mirror*

n) *nylon string, polythene bags, seasickness tablets (min 6 per person recommended)*

4.22: *Lifebuoy and Life sling or two lifebuoy's with self igniting light, drogue, and whistle. A pole and flag on board permanently extended or capable of being fully automatically extended.*

4.23: *SOLAS Pyrotechnic signals including 6 red parachute flares 4 red hand flares, and 2 orange smoke flares (not older than the expiry date or four years).*

4.24: *Heaving line (throwing sock).*

4.25: *Cockpit knife.*

4.26: Storm and heavy weather sails including: storm trysail, storm jib, heavy weather jib. All of these sails must be on deck and installed, ready to be hoisted for the Equipment Inspector.

It is recommended that all storm sails have permanently attached sheets.

For each storm or heavy weather jib, a means to attach the luff to the stay independently of any luff groove device must be available. A storm trysail shall be capable of being sheeted independently of the boom.

Section 5

5.01: Lifejacket for each crew with yacht name or wearer's name clearly marked, reflective material, light, whistle, compatible with safety harness.

5.02.1: Safety harness and safety lines for each crew.

5.02.2: In addition, at least 30% of crew shall have a safety line not more than 1 m long or a mid-point snaphook on a 2 m safety line.

5.09: Annual "quick stop" man overboard practice certificate signed by participating crew.

Section 6

6.01: Proof that 50% of crew, including the skipper, have attended a Safety at Sea Seminar within the five years prior to 13 May 2008.

6.04: Certificate of routine on-board training that demonstrates that at least 30% of crew have been trained in the use of the boat's equipment, including: life rafts and life jackets; communications; pyrotechnics; EPIRBs; and fire prevention and fire fighting.

I, the owner or skipper, have read and understood Offshore Special Regulations 2008-2009, in particular the points in 1.02, Responsibility of Person in Charge.

Yacht name: _____

Owner: _____

Printed name: _____

Inspector: _____

Printed Name: _____

DISCREPANCIES

List below and on opposite side

1.

2.

3.

4.

5.