

## ISAF OFFSHORE SPECIAL REGULATIONS

www.sailing.org/specialregs

### Extract for Race Category 0 Multihulls

**JANUARY 2012 - DECEMBER 2013**

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**Version 1.2 - 2012**

**Because this is an extract not all paragraph numbers will be present**

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Official interpretations shall take precedence over these Special Regulations and will be indexed, numbered, dated and displayed on the ISAF web site [www.sailing.org/specialregs](http://www.sailing.org/specialregs)

### Language & Abbreviations Used

Mo - Monohull

Mu - Multihull

" \*\* " means the item applies to all types of yacht in all Categories except 5 for which see Appendix J or 6 for which see Appendix L.

RED TYPE indicates a significant changes in 2012

*Guidance notes and recommendations are in italics*

*The use of the masculine gender shall be taken to mean either gender*

### Administration

*The Offshore Special Regulation are administered by the ISAF Special Regulation Sub-Committee whose terms of reference are as follows: ([www.sailing.org/regulations](http://www.sailing.org/regulations))*

*ISAF Regulation 6.8.8.3 - The Special Regulations Sub-Committee shall:*

*(a) be responsible for the maintenance, revision and changes to the ISAF Offshore Special Regulations governing offshore racing, under licence from ORC Ltd. Such changes shall be biennial with revised editions published in January of each even year, except that matters of an urgent nature affecting safety may be dealt with by changes to the Regulations on a shorter time scale;*

*(b) monitor developments in offshore racing relative to the standards of safety and seaworthiness.*

*Any queries please E-Mail: [technical@isaf.co.uk](mailto:technical@isaf.co.uk)*

## SECTION 1 - FUNDAMENTAL AND DEFINITIONS

### 1.01 Purpose and Use

- 1.01.1 It is the purpose of these Special Regulations to establish uniform minimum equipment, accommodation and training standards for monohull and multihull yachts racing offshore. A Proa is excluded from these regulations. \*\*
- 1.01.2 These Special Regulations do not replace, but rather supplement, the requirements of governmental authority, the Racing Rules and the rules of Class Associations and Rating Systems. The attention of persons in charge is called to restrictions in the Rules on the location and movement of \*\*

- equipment.
- 1.01.3 These Special Regulations, adopted internationally, are strongly recommended for use by all organizers of offshore races. Race Committees may select the category deemed most suitable for the type of race to be sailed. \*\*

## 1.02 Responsibility of Person in Charge

- 1.02.1 The safety of a yacht and her crew is the sole and inescapable responsibility of the person in charge who must do his best to ensure that the yacht is fully found, thoroughly seaworthy and manned by an experienced crew who have undergone appropriate training and are physically fit to face bad weather. He must be satisfied as to the soundness of hull, spars, rigging, sails and all gear. He must ensure that all safety equipment is properly maintained and stowed and that the crew know where it is kept and how it is to be used. He shall also nominate a person to take over the responsibilities of the Person in Charge in the event of his incapacitation.** \*\*

- 1.02.2 Neither the establishment of these Special Regulations, their use by race organizers, nor the inspection of a yacht under these Special Regulations in any way limits or reduces the complete and unlimited responsibility of the person in charge. \*\*

- 1.02.3 Decision to race -The responsibility for a yacht's decision to participate in a race or to continue racing is hers alone - RRS Fundamental Rule 4.** \*\*

## 1.03 Definitions, Abbreviations, Word Usage

- 1.03.1 Definitions of Terms used in this document \*\*

### TABLE 1

Age Date	Month/year of first launch
AIS	Automatic Identification Systems
CEN	Comité Européen de Normalisation
CPR	Cardio-Pulmonary Resuscitation
Coaming	Includes the transverse after limit of the cockpit over which water would run in the event that when the yacht is floating level the cockpit is flooded or filled to overflowing.
DSC	Digital Selective Calling
EN	European Norm
EPFS	Electronic Position-Fixing System
EPIRB	Emergency Position-Indicating Radio Beacon
FA Station	The transverse station at which the upper corner of the transom meets the sheerline.
Foul-Weather Suit	A foul weather suit is clothing designed to keep the wearer dry and maybe either a jacket and trousers worn together, or a single garment comprising jacket and trousers.
GMDSS	Global Maritime Distress & Safety System
GNSS	Global Navigation Satellite System
GPIRB	EPIRB, with integral GPS position-fixing
ITU	International Telecommunications Union
GPS	Global Positioning System
Hatch	The term hatch includes the entire hatch assembly and also the lid or cover as part of that assembly (the part itself may be described as a hatch).
INMARSAT	This is Inmarsat Global Limited, the private company that provides GMDSS satellite distress and safety communications, plus general communications via voice, fax and data
IMO	International Maritime Organisation
IMSO	The International Mobile Satellite Organisation, the independent, intergovernmental organisation that oversees Inmarsat's performance of its Public Service Obligations for the GMDSS and reports on these to IMO
ISAF	International Sailing Federation.
ISO	International Standard or International Organization for Standardization.

Lifeline	Rope or wire line rigged as guardrail / guardline around the deck
LOA	Length overall not including pulpits, bowsprits, boomkins etc.
LWL	(Length of) loaded waterline
Monohull	Yacht in which the hull depth in any section does not decrease towards the centre-line.
Moveable Ballast	Lead or other material including water which has no practical function in the boat other than to increase weight and/or to influence stability and/or trim and which may be moved transversely but not varied in weight while a boat is racing.
ORC	Offshore Racing Congress (formerly Offshore Racing Council)
OSR	Offshore Special Regulation(s)
Permanently Installed	Means the item is effectively built-in by e.g. bolting, welding, glassing etc. and may not be removed for or during racing.
PLB	Personal Locator Beacon
Proa	Asymmetric Catamaran
RRS	ISAF - Racing Rules of Sailing
SAR	Search and Rescue
SART	Search and Rescue Transponder
Series Date	Month & Year of first launch of the first yacht of the production series
SOLAS	Safety of Life at Sea Convention
Safety Line	A tether used to connect a safety harness to a strong point
Securely Fastened	Held strongly in place by a method (e.g. rope lashings, wing-nuts) which will safely retain the fastened object in severe conditions including a 180 degree capsize and allows for the item to be removed and replaced during racing
Static Ballast	Lead or other material including water which has no practical function in the boat other than to increase weight and/or to influence stability and/or trim and which may not be moved or varied in weight while a boat is racing.
Static Safety Line	A safety line (usually shorter than a safety line carried with a harness) kept clipped on at a work-station
Variable Ballast	Water carried for the sole purpose of influencing stability and/or trim and which may be varied in weight and/or moved while a boat is racing.

1.03.2 The words "shall" and "must" are mandatory, and "should" and "may" are permissive. \*\*

1.03.3 The word "yacht" shall be taken as fully interchangeable with the word "boat". \*\*

## SECTION 2 - APPLICATION & GENERAL REQUIREMENTS

### 2.01 Categories of Events

*In many types of race, ranging from trans-oceanic sailed under adverse conditions to short-course day races sailed in protected waters, seven categories are established, to provide for differences in the minimum standards of safety and accommodation required for such varying circumstances:* \*\*

#### 2.01.1 Category 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. MoMu,0

### 2.02 Inspection

A yacht may be inspected at any time. If she does not comply with these Special Regulations her entry may be rejected, or she will be liable to disqualification or such other penalty as may be prescribed by the national authority or the race organizers. \*\*

### 2.03 General Requirements

2.03.1 All equipment required by Special Regulations shall:-

- a) function properly \*\*
- b) be regularly checked, cleaned and serviced \*\*
- c) when not in use be stowed in conditions in which deterioration is minimised \*\*

- d) be readily accessible \*\*
- e) be of a type, size and capacity suitable and adequate for the intended use and size of the yacht. \*\*
- 2.03.2 Heavy items:
  - a) ballast, ballast tanks and associated equipment shall be permanently installed \*\*
  - b) heavy movable items including e.g. batteries, stoves, gas bottles, tanks, toolboxes and anchors and chain shall be securely fastened \*\*
  - c) heavy items for which fixing is not specified in Special Regulations shall be permanently installed or securely fastened, as appropriate \*\*
- 2.03.3 When to show navigation lights \*\*
  - a) navigation lights (OSR 3.27) shall be shown as required by the International Regulations for Preventing Collision at Sea, (Part C and Technical Annex 1). All yachts shall exhibit sidelights and a sternlight at the required times. \*\*

## **SECTION 3 - STRUCTURAL FEATURES, STABILITY, FIXED EQUIPMENT**

### **3.01 Strength of Build, Ballast and Rig**

Yachts shall be strongly built, watertight and, particularly with regard to hulls, decks and cabin trunks capable of withstanding solid water and knockdowns. They must be properly rigged and ballasted, be fully seaworthy and must meet the standards set forth herein. Shrouds shall never be disconnected. \*\*

### **3.02 Watertight Integrity of a Hull**

3.02.1 A hull, including, deck, coach roof, windows, hatches and all other parts, shall form an integral, essentially watertight unit and any openings in it shall be capable of being immediately secured to maintain this integrity. \*\*

3.02.2 Centreboard and daggerboard trunks and the like shall not open into the interior of a hull except via a watertight inspection/maintenance hatch of which the opening shall be entirely above the waterline of the yacht floating level in normal trim. \*\*

3.02.3 A canting keel pivot shall be completely contained within a watertight enclosure which shall comply with OSR 3.02.2. Access points in the watertight enclosure for control and actuation systems or any other purpose shall comply with OSR 3.02.1. \*\*

3.02.4 Moveable ballast systems shall be fitted with a manual control and actuation secondary system which shall be capable of controlling the full sailing load of the keel in the event of failure of the primary system. Such failures would include electrical and hydraulic failure and mechanical failure of the components and the structure to which it mounts. The system must be capable of being operational quickly and shall be operable at any angle of heel. It would be desirable if this system was capable of securing the keel on the centreline. \*\*

### **3.03 Hull Construction Standards (Scantlings)**

3.03.4 A multihull shall comply with appendix M to these OSR. **MoMu0,1,2**  
Extract File Only

### **3.05 Stability and Flotation - Multihulls**

*Attention is drawn to ISO 12217-2.*

3.05.1 Adequate watertight bulkheads and compartments (which may include permanently installed flotation material) in each hull shall be provided to ensure that a multihull is effectively unsinkable and capable of floating in a stable position with at least half the length of one hull flooded. (see OSR 3.13.2). **Mu0,1,2,3,4**  
*Mu0,1,2,3,4*

3.05.2 Multihulls built on or after Jan 1999 shall in every hull without accommodation be divided at intervals of not more than 4m (13ft 3") by one or more transverse watertight bulkheads **Mu0,1,2,3,4**

3.05.3 A yacht shall be designed and built to resist capsizes. **Mu0,1,2,3,4**

### **3.07 Exits and Escape Hatches - Multihulls**

3.07.1 Exits

a) In a multihull of 8m (26.2ft) LOA and greater, each hull which contains **Mu0,1,2,3,4**

	accommodation shall have at least two exits.	
b)	In a multihull of less than 8m (26.2ft) LOA each hull which contains accommodation shall have at least two exits.	Mu0,1,2,3
<b>3.07.2 Escape Hatches, Underside Clipping Points &amp; Handholds</b>		
a)	In a multihull of 12m (39.4ft) LOA and greater each hull which contains accommodation shall:-	Mu0,1,2,3,4
i	have an escape hatch for access to and from the hull in the event of an inversion;	Mu0,1,2,3,4
ii	when first launched on or after January 2003 have a minimum clearance diameter through each escape hatch of 450mm or when an escape hatch is not circular, sufficient clearance to allow a crew member to pass through fully clothed;	Mu0,1,2,3,4
iii	<i>when first launched prior to January 2003, if possible have each escape hatch in compliance with the dimensions in OSR 3.07.2(a)(ii);</i>	<i>Mu0,1,2,3,4</i>
iv	when the yacht is inverted have each escape hatch above the waterline;	Mu0,1,2,3,4
v	when first launched on or after January 2001 have each escape hatch at or near the midships station;	Mu0,1,2,3,4
vi	in a catamaran first launched on or after January 2003 have each escape hatch on the side nearest the vessel's central axis.	Mu0,1,2,3,4
b)	A trimaran of 12m (39.4ft) LOA and greater first launched on or after 1/03 shall have at least two escape hatches in compliance with the dimensions in OSR 3.07.2(a) (ii)	Mu0,1,2,3,4
c)	Each escape hatch must have been opened both from inside and outside within 6 months prior to an intended race	Mu0,1,2,3,4
d)	A multihull shall have on the underside appropriate handholds/clipping points sufficient for all crew (on a trimaran these shall be around the central hull).	Mu0,1,2,3,4
e)	A catamaran first launched on or after 1/03 with a central nacelle shall have on the underside around the central nacelle, handholds of sufficient capacity to enable all persons on board to hold on and/or clip on securely	Mu0,1,2,3,4
f)	<i>In a catamaran with a central nacelle, it is recommended that each hull has an emergency refuge, accessible via a special hatch in the side of the hull nearest the vessel's central axis, which hatch may be opened and closed from the inside and outside</i>	<i>Mu0,1,2,3,4</i>
<b>3.08 Hatches &amp; Companionways</b>		
3.08.1	No hatch forward of the maximum beam station, other than a hatch in the side of a coachroof, 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 0.071m <sup>2</sup> (110 sq in)).	**
3.08.2	A hatch fitted forward of the maximum beam station, located on the side of the coachroof, opening into the interior of the boat ,and of area greater than 0.071m <sup>2</sup> shall comply with ISO12216 design category A and be clearly labelled and used in accordance with the following instruction: "NOT TO BE OPENED AT SEA" Attention is drawn to SR 3.02.1	**
3.08.3	A hatch shall be:	
b)	permanently attached	**
c)	capable of being firmly shut immediately and remaining firmly shut in a 180 degree capsized (inversion)	**
3.08.4	A companionway hatch shall:	
a)	be fitted with a strong securing arrangement which shall be operable from the exterior and interior including when the yacht is inverted	**
b)	have any blocking devices:	**
i	capable of being retained in position with the hatch open or shut	**
ii	whether or not in position in the hatchway, secured to the yacht (e.g. by lanyard) for the duration of the race, to prevent their being lost overboard	**
iii	permit exit in the event of inversion	**
3.08.7	A companionway hatch extending below the local sheerline and shall comply with either (a) or (b):	Mu0,1,2,3,4
a)	be capable of being blocked off up to the level of the local sheerline, whilst	Mu0,1,2,3,4

giving access to the interior with the blocking devices (e.g. washboards) in place with a minimum sill height of 300 mm.

b)		
i)	A companionway hatch shall be in compliance with ISO 11812 – Watertight cockpits and quick-draining cockpits to design category A	Mu0,1,2,3
<b>3.09</b>	<b>Cockpits - Attention is Drawn to ISO 11812</b>	
3.09.1	Cockpits shall be structurally strong, self-draining quickly by gravity at all angles of heel and permanently incorporated as an integral part of the hull.	**
3.09.2	Cockpits must be essentially watertight, that is, all openings to the hull must be capable of being strongly and rigidly secured	**
3.09.3	A bilge pump outlet pipe shall not be connected to a cockpit drain. See OSR 3.09.8 for cockpit drain minimum sizes	**
3.09.4	A cockpit sole shall be at least 2% LWL above LWL (or in IMS yachts first launched before 1/03, at least 2% L above LWL)	**
3.09.5	A bow, lateral, central or stern well shall be considered a cockpit for the purposes of OSR 3.09	**
3.09.6	In cockpits opening aft to the sea structural openings aft shall be not less in area than 50% maximum cockpit depth x maximum cockpit width.	**
<b>3.09.7</b>	<b>Cockpit Volume</b>	
i)	earliest of age or series date before April 1992 the total volume of all cockpits below lowest coamings shall not exceed 6% (LWL x maximum beam x freeboard abreast the cockpit).	Extract File Only MoMu0,1
ii)	earliest of age or series date April 1992 and after as above for the appropriate category except that "lowest coamings" shall not include any aft of the FA station and no extension of a cockpit aft of the working deck shall be included in calculation of cockpit volume <i>IMS-rated boats may instead of the terms LWL, maximum beam, freeboard abreast the cockpit, use the IMS terms L, B and FA.</i>	Extract File Only ** <i>Extract File Only **</i>
<b>3.09.8</b>	<b>Cockpit Drains</b> See OSR 3.09.1. Cockpit drain cross section area (after allowance for screens if fitted) shall be:-	
a)	in yachts with earliest of age or series date before 1/72 or in any yacht under 8.5m (28ft) LOA - at least that of 2 x 25mm diameter (one inch) unobstructed openings or equivalent	**
b)	in yachts with earliest of age or series date 1/72 and later - at least that of 4 x 20mm diameter (3/4 inch) unobstructed openings or equivalent	**
<b>3.10</b>	<b>Sea Cocks or Valves</b> Sea cocks or valves shall be permanently installed on all through-hull openings below the waterline except integral deck scuppers, speed indicators, depth finders and the like, however a means of closing such openings shall be provided.	**
<b>3.11</b>	<b>Sheet Winches</b> Sheet winches shall be mounted in such a way that an operator is not required to be substantially below deck.	**
<b>3.12</b>	<b>Mast Step</b> The heel of a keel stepped mast shall be securely fastened to the mast step or adjoining structure.	**
<b>3.13</b>	<b>Watertight Bulkheads</b> <i>multihulls also see OSR 3.05</i>	<i>Mu0,1,2,3,4</i>
3.13.1	A hull shall have either a watertight "crash" bulkhead within 15% of LOA from the bow and abaft the forward end of LWL, or permanently installed closed-cell foam buoyancy effectively filling the forward 30% LOA of the hull.	Mo0Mu0,1,2,3,4
3.13.2	Any required watertight bulkhead shall be strongly built to take a full head of water pressure without allowing any leakage into the adjacent compartment.	Mo0Mu0,1,2,3,4
<b>3.14</b>	<b>Pulpits, Stanchions, Lifelines</b>	
3.14.1	When due to the particular design of a multihull it is impractical to precisely follow Special Regulations regarding pulpits, stanchions, lifelines, the	Mu0,1,2,3,4,



	regulations for monohulls shall be followed as closely as possible with the aim of minimising the risk of people falling overboard.	**
3.14.2	Lifelines required in Special Regulations shall be "taut".	**
a)	<i>As a guide, when a deflecting force of 50 N (5.1 kgf, 11.2 lbf) is applied to a lifeline midway between supports, the lifeline should not deflect more than 50 mm.</i>	**
3.14.3	The following shall be provided:	**
c)	lifelines (guardlines) supported on stanchions, which, with pulpits, shall form an effectively continuous barrier around a working deck for man-overboard prevention. Lifelines shall be permanently supported at intervals of not more than 2.20m (86.6") and shall not pass outboard of supporting stanchions	**
d)	upper rails of pulpits at no less height above the working deck than the upper lifelines as in Table 7.	**
e)	Openable upper rails in bow pulpits shall be secured shut whilst racing	**
f)	Pulpits and stanchions shall be permanently installed. When there are sockets or studs, these shall be through-bolted, bonded or welded. The pulpit(s) and/or stanchions fitted to these shall be mechanically retained without the help of the life-lines. Without sockets or studs, pulpits and/or stanchions shall be through-bolted, bonded or welded.	**
g)	The bases of pulpits and stanchions shall not be further inboard from the edge of the appropriate working deck than 5% of maximum beam or 150 mm (6 in), whichever is greater.	**
h)	Stanchion or pulpit or pushpit bases shall not be situated outboard of a working deck. For the purpose of this rule the base shall be taken to include a sleeve or socket into which the tube is fitted but shall exclude a baseplate which carries fixings into the deck or hull.	**
i)	Provided the complete lifeline enclosure is supported by stanchions and pulpit bases effectively within the working deck, lifeline terminals and support struts may be fixed to a hull aft of the working deck	**
j)	Lifelines need not be fixed to a bow pulpit if they terminate at, or pass through, adequately braced stanchions set inside and overlapping the bow pulpit, provided that the gap between the upper lifeline and the bow pulpit does not exceed 150 mm (6 in).	**
k)	Lifelines shall be continuous and fixed only at (or near) the bow and stern. However a bona fide gate shall be permitted in the lifelines on each side of a yacht. Except at its end fittings, the movement of a lifeline in a fore-and-aft direction shall not be constrained. Temporary sleeving in 3.14.6 (c) shall not modify tension in the lifeline.	**
l)	Stanchions shall be straight and vertical except that:-	**
i	within the first 50 mm (2 in) from the deck, stanchions shall not be displaced horizontally from the point at which they emerge from the deck or stanchion base by more than 10 mm (3/8 in),and	**
ii	stanchions may be angled to not more than 10 degrees from vertical at any point above 50 mm (2 in) from the deck.	**
m)	<i>It is strongly recommended that designs also comply to ISO 15085</i>	**
<b>3.14.4</b>	<b>Special Requirements for Pulpits, Stanchions, Lifelines on Multihulls</b>	<b>Mu0,1,2,3,4</b>
	The following shall be provided:-	
a)	on a trimaran - a bow pulpit on the main hull, with lifelines around the main hull supported on stanchions. The lifelines may be interrupted where there are nets or crossbeam wings outboard of the main hull	Mu0,1,2,3,4
b)	on a trimaran - where a net joins the base of a bow pulpit on the main hull, an additional lifeline from the top of the pulpit to the forward crossbeam at or outboard of the crossbeam mid-point.	Mu0,1,2,3,4
c)	on a trimaran - at a main or emergency steering position on an outrigger with or without a cockpit, lifelines protecting an arc of 3 meters diameter centred on the steering position. (When measuring between lifelines their taut, undeflected positions shall be taken for this purpose).	Mu0,1,2,3,4

- d) on a catamaran - lifelines from bow to stern on each hull and transverse lifelines to form an effectively continuous barrier around the working area for man-overboard prevention. The transverse lifelines shall be attached to bow and stern pulpits or superstructure. A webbing, strop or rope (minimum diameter 6mm) shall be rove zig-zag between the transverse lifelines and the net. Mu0,1,2,3,4

### 3.14.5 Lifeline Height, Vertical Openings, Number of Lifelines

TABLE 7			**	Category
LOA	earliest of age/seriesdate	minimum requirements		
under 8.5 m(28 ft)	before January 1992	taut single lifeline at a height of no less than 450 mm (18 in) above the working deck. No vertical opening shall exceed 560 mm (22 in).		**
under 8.5 m(28 ft)	January 1992 and after	as for under 8.5 m(28 ft) in table 7 above, except that when an intermediate lifeline is fitted no vertical opening shall exceed 380 mm (15 in).		**
8.5 m (28 ft) and over	before January 1993	taut double lifeline with upper lifeline at a height of no less than 600 mm (24 in) above the working deck. No vertical opening shall exceed 560 mm (22 in)		**
8.5 m (28 ft)and over	January 1993 and after	as 8.5 m (28 ft) and over in Table 7 above, except that no vertical opening shall exceed 380 mm (15 in).		**
all	all	on yachts with intermediate lifelines the intermediate line shall be not less than 230 mm (9 in) above the working deck.		**

### 3.14.6 Lifeline Minimum Diameters, Required Materials, Specifications

- a) Lifelines shall be of : \*\*
- stranded stainless steel wire or
  - Single-braided High Modulus Polyethylene (HMPE) (Dyneema®/Spectra® or equivalent) rope
- b) The minimum diameter is specified in table 8 below. \*\*
- c) Stainless steel lifelines shall be uncoated and used without close-fitting sleeving, however, temporary sleeving may be fitted provided it is regularly removed for inspection. \*\*
- d) *When stainless wire is used, Grade 316 is recommended.* \*\*
- e) *When HMPE (Dyneema®/Spectra®) is used, it shall be spliced in accordance with the manufacturer's recommended procedures.* \*\*
- f) A taut lanyard of synthetic rope may be used to secure lifelines provided the gap it closes does not exceed 100 mm (4 in). This lanyard shall be replaced annually at a minimum. \*\*
- g) All wire, fittings, anchorage points, fixtures and lanyards shall comprise a lifeline enclosure system which has at all points at least the breaking strength of the required lifeline wire. \*\*

TABLE 8			**
LOA	minimum wire or rope diameter		
under 8.5 m (28ft)	3 mm (1/8 in)		
8.5m - 13 m	4 mm (5/32 in)		
over 13 m (43 ft)	5 mm (3/16 in)		

### 3.14.7 Pulpits, Stanchions, Lifelines - Limitations on Materials

TABLE 9			**
Earliest of Age or Series Date	detail		
before January 1987	carbon fibre is not recommended in stanchions pulpits and lifelines.		
January 1987 and after	stanchions, pulpits and lifelines shall not be made of carbon fibre.		

### 3.15 Multihull Nets or Trampolines

- 3.15.1 The word "net" is interchangeable with the word "trampoline" Mu0,1,2,3,4  
A net shall be:- Mu0.1.2.3.4



- |    |   |             |
|----|---|-------------|
| a) | essentially horizontal  | Mu0,1,2,3,4 |
| b) | made from durable woven webbing, water permeable fabric, or mesh with openings not larger than 5.08cm (2 inches) in any dimension. Attachment points shall be planned to avoid chafe. The junction between a net and a yacht shall present no risk of foot trapping | Mu0,1,2,3,4 |
| c) | solidly fixed at regular intervals on transverse and longitudinal support lines and shall be fine-stitched to a bolt rope   | Mu0,1,2,3,4 |
| d) | able to carry the full weight of the crew either in normal working conditions at sea or in case of capsizing when the yacht is inverted.  | Mu0,1,2,3,4 |
| e) | <i>It is recommended that lines used to tie the nets should be individually tied and not continuously connected to more than four attachment points per connecting line</i>   | Mu0,1,2,3,4 |

### 3.15.2 Trimarans with Double Crossbeams

- |    |  |             |
|----|--|-------------|
| a) | A trimaran with double crossbeams shall have nets on each side covering:-  |             |
| b) | the rectangles formed by the crossbeams, central hull and outriggers   | Mu0,1,2,3,4 |
| c) | the triangles formed by the aft end of the central pulpit, the mid-point of each forward crossbeam, and the intersection of the crossbeam and the central hull   | Mu0,1,2,3,4 |
| d) | the triangles formed by the aftermost part of the cockpit or steering position (whichever is furthest aft), the mid-point of each after crossbeam, and the intersection of the crossbeam and the central hull; except that:- | Mu0,1,2,3,4 |
| e) | the requirement in OSR 3.15.2(d) shall not apply when cockpit coamings and/or lifelines are present which comply with the minimum height requirements in Table 7   | Mu0,1,2,3,4 |

### 3.15.3 Trimarans with Single Crossbeams

- |    |   |             |
|----|---|-------------|
| a) | A trimaran with a single crossbeam shall have nets between the central hull and each outrigger:-  | Mu0,1,2,3,4 |
| b) | 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) | Mu0,1,2,3,4 |

### 3.16 Catamarans

On a catamaran the total net surface shall be limited:

- |    |  |             |
|----|--|-------------|
| a) | laterally by the hulls; and  | Mu0,1,2,3,4 |
| b) | longitudinally by 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 | Mu0,1,2,3,4 |

### 3.18 Toilet

- |        |                                 |           |
|--------|---------------------------------|-----------|
| 3.18.1 | A toilet, permanently installed | MoMu0,1,2 |
|--------|---------------------------------|-----------|

### 3.19 Bunks

- |        |  |       |
|--------|--|-------|
| 3.19.1 | Bunks, permanently installed, one for each member of the declared crew | MoMu0 |
| 3.19.2 | Bunks, permanently installed   | **    |

### 3.20 Cooking Facilities

- |        |   |             |
|--------|---|-------------|
| 3.20.1 | A cooking stove, permanently installed or securely fastened with safe accessible fuel shutoff control and capable of being safely operated in a seaway. | MoMu0,1,2,3 |
|--------|---|-------------|

### 3.21 Drinking Water Tanks & Drinking Water

#### 3.21.1 Drinking Water Tanks

- |    |   |             |
|----|---|-------------|
| a) | A yacht shall have a permanently installed delivery pump and water tank(s): | MoMu0,1,2,3 |
| i  | dividing the water supply into at least three compartments                  | MoMu0       |

#### 3.21.2 Drinking Water

- |    |   |       |
|----|---|-------|
| a) | Each yacht shall have the necessary equipment (which may include watermakers and tanks containing water) permanently installed to provide at least 3 litres of drinking water per person per day for at least the likely duration of the voyage | MoMu0 |
|----|---|-------|

#### 3.21.3 Emergency Drinking Water

- |    |  |                      |
|----|--|----------------------|
| b) | In the absence of a power driven watermaker, at least 1 litre per person per day in at least two separate containers shall be provided for the | MoMu0,1,2,3<br>MoMu0 |
|----|--|----------------------|

	expected duration of the voyage	
c)	When a power-driven watermaker is on board, at least 500ml per person per day in at least two separate containers shall be provided for the expected duration of the voyage	MoMu0
d)	Facilities shall be provided to collect rainwater for drinking purposes including when dismasted	MoMu0
e)	<i>All drinking water and any desalination units should be so arranged that drinking water is readily accessible when the yacht is inverted.</i>	<i>Mu0</i>
<b>3.22</b>	<b>Hand Holds</b>	
	Adequate hand holds shall be fitted below deck so that crew members may move about safely at sea. <i>A hand hold should be capable of withstanding without rupture a side force of 1500N - attention is drawn to ISO 15085.</i>	**
<b>3.23</b>	<b>Bilge Pumps and Buckets</b>	
3.23.1	No bilge pump may discharge into a cockpit unless that cockpit opens aft to the sea.	**
3.23.2	Bilge pumps shall not be connected to cockpit drains. (OSR 3.09)	**
3.23.3	Bilge pumps and strum boxes shall be readily accessible for maintenance and for clearing out debris	**
3.23.4	Unless permanently installed, each bilge pump handle shall be provided with a lanyard or catch or similar device to prevent accidental loss	**
3.23.5	The following shall be provided:	
b)	one permanently installed manual bilge pump either above or below deck. The pump shall be operable with all cockpit seats, hatches and companionways shut and shall have a permanently installed discharge pipe.	Mu0,1,2
c)	multihulls shall have provision to pump out all watertight compartments (except those filled with impermeable buoyancy).	Mu0,1,2,3,4
f)	two buckets of stout construction each with at least 9 litres (2 UK gallons, 2.4 US gallons) capacity. Each bucket to have a lanyard.	**
<b>3.24</b>	<b>Compass</b>	
3.24.1	The following shall be provided:-	
a)	a marine magnetic compass, independent of any power supply, permanently installed and correctly adjusted with deviation card, and	**
b)	a magnetic compass independent of any power supply, capable of being used as a steering compass which may be hand-held	MoMu0,1,2,3
<b>3.25</b>	<b>Halyards.</b>	
	No mast shall have less than two halyards, each capable of hoisting a sail.	**
<b>3.26</b>	<b>Bow Fairlead</b>	
	A bow fairlead, closed or closable and a cleat or securing arrangement, suitable for towing shall be permanently installed.	Mo0
<b>3.27</b>	<b>Navigation Lights (see OSR 2.03.3)</b>	
3.27.1	Navigation lights shall be mounted so that they will not be masked by sails or the heeling of the yacht.	**
3.27.2	Navigation lights shall not be mounted below deck level and should be at no less height than immediately under the upper lifeline.	**
3.27.3	Navigation light intensity TABLE 11	
	<i>LOA</i>	<i>Guide to required minimum power rating for an electric bulb in a navigation light</i>
	<i>under 12 m (39.4 ft)</i>	<i>10 W</i>
	<i>12 m (39.4 ft) and above</i>	<i>25 W</i>
3.27.4	Reserve navigation lights shall be carried having the same minimum specifications as the navigation lights above, with a separable power source, and wiring or supply system essentially separate from that used for the normal navigation lights	MoMu0,1,2,3
3.27.5	spare bulbs for navigation lights shall be carried, or for lights not dependent on bulbs, appropriate spares.	**

<b>3.28</b>	<b>Engines, Generators, Fuel</b>	
<b>3.28.1</b>	<b>Propulsion Engines</b>	**
a)	Engines and associated systems shall be installed in accordance with their manufacturers' guidelines and shall be of a type, strength, capacity, and installation suitable for the size and intended use of the yacht.	**
b)	An inboard propulsion engine when fitted shall: be provided with a permanently installed exhaust, coolant, and fuel supply systems and fuel tank(s); be securely covered; and have adequate protection from the effects of heavy weather.	**
c)	A propulsion engine required by Special Regulations shall provide a minimum speed in knots of (1.8 x square root of LWL in metres) or (square root of LWL in feet)	MoMu0,1,2,3
e)	An inboard propulsion engine shall be provided for yachts	Mo0,1,2Mu0
<b>3.28.2</b>	<b>Generator</b>	
	A separate generator for electricity is optional. However, when a separate generator is carried it shall be permanently installed, securely covered, and shall have permanently installed exhaust, cooling and fuel supply systems and fuel tank(s), and have adequate protection from the effects of heavy weather.	**
<b>3.28.3</b>	<b>Fuel Systems</b>	
a)	Each fuel tank provided with a shutoff valve. Except for permanently installed linings or liners, a flexible tank is not permitted as a fuel tank.	MoMu0,1,2,3
b)	The propulsion engine shall have a minimum amount of fuel which may be specified in the Notice of Race but if not, shall be sufficient to be able to meet charging requirements for the duration of the race and to motor at the above minimum speed for at least 8 hours	MoMu0,1,2,3
<b>3.28.4</b>	<b>Battery Systems</b>	
a)	When an electric starter is the only method for starting the engine, the yacht shall have a separate battery, the primary purpose of which is to start the engine	MoMu0,1,2,3
b)	All rechargeable batteries on board shall be of the sealed type from which liquid electrolyte cannot escape. Other types of battery installed on board at 1/12 may continue in use for the remainder of their service lives.	MoMu0,1,2,3
<b>3.29</b>	<b>Communications Equipment, EPFS (Electronic Position-Fixing System), Radar, AIS</b>	**
	<i>Provision of GMDSS and DSC is unlikely to be mandatory for small craft during the term of the present Special Regulations However it is recommended that persons in charge include these facilities when installing new equipment.</i>	MoMu0,1,2,3
3.29.1	The following shall be provided:	**
a)	A marine radio transceiver (or if stated in the Notice of Race, an installed satcom terminal), and	MoMu0,1,2,3
i	an emergency antenna when the regular antenna depends upon the mast.	MoMu0,1,2,3
b)	When the marine radio transceiver is VHF:	MoMu0,1,2,2
i	it shall have a rated output power of 25W	MoMu0,1,2,3
ii	it shall have a masthead antenna, and co-axial feeder cable with not more than 40% power loss	MoMu0,1,2,3
iii	<i>the following types and lengths of co-axial feeder cable will meet the requirements of OSR 3.29.1 (b)(ii): (a) up to 15m (50ft) - type RG8X ("mini 8"); (b) 15-28m (50-90ft) - type RG8U; (c) 28-43m (90-140ft) - type 9913F (uses conventional connectors, available from US supplier Belden); (d) 43-70m 140-230ft - type LMR600 (uses special connectors, available from US supplier Times Microwave).</i>	MoMu0,1,2,3
iv	<i>it should include channel 72 (an international ship-ship channel which, by common use, has become widely accepted as primary choice for ocean racing yachts anywhere in the world)</i>	MoMu0,1,2,3
v	Notwithstanding OSR 3.29.1 (b) a yacht in a Category Zero race shall have a marine VHF DSC radio in accordance with OSR 3.29.1 (b) (I) and (ii) covering all international and US marine channels and meeting the class D	MoMu0

	specification of the ITU.	
c)	At least two hand-held satellite telephones, watertight or with waterproof covers and internal batteries. When not in use each to be stowed in a grab bag (see OSR 4.21)	MoMu0
d)	At least two hand-held marine VHF transceivers each with min 5w output power, watertight or with waterproof covers. When not in use to be stowed in a grab bag (see OSR 4.21)	MoMu0
f)	Independent of a main radio transceiver, a radio receiver capable of receiving weather bulletins	**
g)	<i>It is strongly recommended that a hand-held watertight transceiver operating on one or more aviation frequencies including 121.5MHz should be provided. This will enable communications between the yacht and aircraft on SAR duties, not all of which have maritime VHF. When not in use to be stowed in a grab bag (see OSR 4.21.2)</i>	MoMu0
h)	A D/F (direction-finding) radio receiver operating on 121.5MHz to take a bearing on a PLB or EPIRB, or an alternative device for man-overboard location when each crew member has an appropriate personal unit (see OSR 5.07);	MoMu0
i)	An EPFS (Electronic Position-Fixing System) (e.g. GPS)	MoMu0,1,2,3
j)	A Standard-C satellite terminal (GMDSS) shall be permanently installed and permanently powered up for the duration of the race and for which the race committee shall have polling authority.	MoMu0
k)	An MF/HF marine SSB transceiver (GMDSS/DSC) with at least 125 watts transmitter power and frequency range from at least 1.6 to 29.9 MHz with permanently installed antenna and earth.	MoMu0
l)	An active radar set permanently installed, with not less than 4 kW PEP with antenna mounted at least 7 metres above the water. The radar antenna unit shall have a maximum dimension not less than 533 mm. The radar shall be mounted so that the antenna unit remains essentially horizontal when the yacht is heeled. Installations in place before January 2006 shall comply as closely as possible with OSR 3.29.(L)	MoMu0
m)	A class A AIS	MoMu0
3.29.2	<i>Yachts are reminded that no reflector, active or passive, is a guarantee of detection or tracking by a vessel using radar.</i>	**
a)	<i>The attention of persons in charge is drawn to legislation in force or imminent affecting the territorial seas of some countries in which the carriage of an AIS set is or will be mandatory for certain vessels including relatively small craft.</i>	**

**SECTION 4 - PORTABLE EQUIPMENT & SUPPLIES for the yacht  
(for water & fuel see OSR 3.21 and OSR 3.28)**

**4.01 Sail Letters & Numbers**

4.01.1	Yachts which are not in an ISAF International Class or Recognized Class shall comply with RRS 77 and Appendix G as closely as possible, except that sail numbers allotted by a State authority are acceptable.	**
4.01.2	Sail numbers and letters of the size carried on the mainsail must be displayed by alternative means when none of the numbered sails is set.	**

**4.02 Hull marking (colour blaze)**

4.02.1	To assist in SAR location:-	<b>Mo0,1,Mu0,1,2,3,4</b>
a)	Each yacht shall show at least 4 m <sup>2</sup> of fluorescent pink or orange or yellow colour as far as possible in a single area on the coachroof and/or deck where it can best be seen	MoMu0
4.02.2	Multihulls shall show on the underside, where they can be seen when inverted, an solid area of highly-visible colour (e.g. Day-Glo pink, orange, or yellow) of at least 1m <sup>2</sup>	Mu0,1,2,3,4
4.02.3	<i>Each yacht is recommended to show on each underwater appendage an area of highly-visible colour</i>	MoMu0,1
<b>4.03</b>	<b>Soft Wood Plugs</b>	
	Soft wood plugs, tapered and of the appropriate size, shall be attached or stowed adjacent to the appropriate fitting for every through-hull opening.	**

#### **4.04 Jackstays, Clipping Points and Static Safety Lines**

4.04.1 The following shall be provided:

- a) Jackstays:- MoMu0,1,2,3  
shall be provided-
  - i attached to through-bolted or welded deck plates or other suitable and strong anchorage fitted on deck, port and starboard of the yacht's centre line to provide secure attachments for safety harness:- MoMu0,1,2,3
  - ii comprising stainless steel 1 x 19 wire of minimum diameter 5 mm (3/16 in), high modulus polyethylene (such as Dyneema/Spectra) rope or webbing of equivalent strength; MoMu0,1,2,3
  - iii which, when made from stainless steel wire shall be uncoated and used without any sleeving; MoMu0,1,2,3
  - iv *20kN (2,040 kgf or 4,500 lbf) min breaking strain webbing is recommended;* MoMu0,1,2,3
  - v *at least two of which should be fitted on the underside of a multihull in case of inversion.* Mu0,1,2,3

#### **4.04.2 Clipping Points:-**

- shall be provided-
  - a) attached to through-bolted or welded deck plates or other suitable and strong anchorage points adjacent to stations such as the helm, sheet winches and masts, where crew members work for long periods:- MoMu0,1,2,3
  - b) which, together with jackstays and static safety lines shall enable a crew member- MoMu0,1,2,3
    - i to clip on before coming on deck and unclip after going below; MoMu0,1,2,3
    - ii whilst continuously clipped on, to move readily between the working areas on deck and the cockpit(s) with the minimum of clipping and unclipping operations. MoMu0,1,2,3
  - c) The provision of clipping points shall enable two-thirds of the crew to be simultaneously clipped on without depending on jackstays MoMu0,1,2,3
  - d) In a trimaran with a rudder on the outrigger, adequate clipping points shall be provided that are not part of the deck gear or the steering mechanism, in order that the steering mechanism can be reached by a crew member whilst clipped on. Mu0,1,2,3
  - e) *Warning - U-bolts as clipping points - see OSR 5.02.1(a)*

#### **4.05 Fire Extinguishers**

Shall be provided as follows:

- 4.05.1 Fire extinguishers, at least two, readily accessible in suitable and different parts of the yacht \*\*
- 4.05.2 Fire Extinguishers, at least two, of minimum 2kgs each of dry powder or equivalent MoMu0,1,2,3
- 4.05.3 Fire extinguishers, at least three of minimum 2 kgs each of dry powder or equivalent including at least one extinguisher or system suitable for dealing with fire in a machinery space MoMu0
- 4.05.4 A fire blanket adjacent to every cooking device with an open flame \*\*

#### **4.06 Anchor(s)**

4.06.1 An anchor or anchors shall be carried according to the table below: \*\*

- a) The specification of anchor, chain and rope shall be in accordance with relevant class rules or the rules of a recognised Classification Society (eg Lloyd's, DNV, etc.) MoMu0

#### **4.07 Flashlight(s) and Searchlight(s)**

4.07.1 The following shall be provided:-

- a) A watertight, high-powered searchlight, suitable for searching for a person overboard at night and for collision avoidance with spare batteries and bulbs, and \*\*
- b) a watertight flashlight with spare batteries and bulb \*\*
- d) a watertight high-intensity heavy duty handlamp powered by the ships' batteries, instantly available for use on deck and in the cockpit, with spare bulbs MoMu0

#### **4.08 First Aid Manual and First Aid Kit**

\*\*



4.08.1	A suitable First Aid Manual shall be provided <i>In the absence of a National Authority's requirement, the latest edition of one of the following is recommended:-</i>	** **
a)	<i>International Medical Guide for Ships, World Health Organisation, Geneva</i>	MoMu0,1
c)	<i>Le Guide de la medecine a distance, by Docteur J Y Chauve, published by Distance Assistance BP33 F-La Baule, cedex, France.</i>	**
e)	<i>Skipper's Medical Emergency Handbook by Dr Spike Briggs and Dr Campbell Mackenzie <a href="http://www.msos.org.uk">www.msos.org.uk</a></i>	**
4.08.2	A First Aid Kit shall be provided	**
4.08.3	<i>The contents and storage of the First Aid Kit should reflect the guidelines of the Manual carried, the likely conditions and duration of the passage, and the number of people aboard the yacht.</i>	**
<b>4.09</b>	<b>Foghorn</b>	
	A foghorn shall be provided	**
<b>4.10</b>	<b>Radar Reflector</b>	
4.10.1	A passive Radar Reflector (that is, a Radar Reflector without any power) shall be provided	**
a)	If a radar reflector is :	**
i	octahedral with triangular plates making up each pocket it must have a minimum diagonal measurement of 456 mm (18in).	**
ii	octahederal with circular sector plates making up each pocket it must have a minimum diameter of 304mm (12in).	**
iii	not octahederal it must have a documented RCS (radar cross-section) of not less than 10 m <sup>2</sup> at 0° elevation and be capable of performance around 360° in azimuth.	**
	The minimum effective height above water is 4.0 m (13 ft).	**
b)	<i>The passive and active devices referred to in these notes and in 4.10.1 and 4.10.2 above are primarily intended for use in the X (9GHz) band</i>	**
a)	An RTE shall be provided in compliance with ISO8729-2:2009 or ITU-R 1176	MoMu0
b)	<i>The display of a passive reflector or the operation of an RTE is for the person in charge to decide according to prevailing conditions.</i>	**
4.10.3	<i>When available, a passive radar reflector in compliance with ISO8729-1:2010 will offer improved performance over earlier models and has a size typified by a cylinder of not more than weight 5kg, height 750mm and diameter 300mm.</i>	**
4.10.4	<i>S (3GHz) band radar is often used by ships in bad weather to complement X (9GHz) band radar. On S (3GHz) band a passive reflector offers about 1/10 the response obtained on the X (9GHz) band. Unless specifically designed to operate in the S(3GHz) band, an RTE will provide no response at all.</i>	**
<b>4.11</b>	<b>Navigation Equipment</b>	
4.11.1	Charts Navigational charts (not solely electronic), light list and chart plotting equipment shall be provided	**
4.11.2	<i>Reserve Navigation System</i> <i>Navigators are recommended to carry a sextant with suitable tables and a timepiece or an adequate reserve navigation system so that total reliance is not placed on dead-reckoning and a single form of EPFS (Electronic Position-Fixing System) (see Volpe Report at <a href="http://www.navcen.uscg.gov/archive/2001/Oct/FinalReport-v4.6.pdf">www.navcen.uscg.gov/archive/2001/Oct/FinalReport-v4.6.pdf</a>)</i>	MoMu0,1
<b>4.12</b>	<b>Safety Equipment Location Chart</b>	
	A safety equipment location chart in durable waterproof material shall be displayed in the main accommodation where it can best be seen, clearly marked with the location of principal items of safety equipment.	**
<b>4.13</b>	<b>Echo Sounder or Lead Line</b>	
4.13.2	Two independent echo sounders shall be provided	MoMu0
<b>4.14</b>	<b>Speedometer or Distance Measuring Instrument (log)</b>	
	A speedometer or distance measuring instrument (log) shall be provided	MoMu0,1,2,3



<b>4.15</b>	<b>Emergency Steering</b>	
4.15.1	Emergency steering shall be provided as follows:	
a)	except when the principal method of steering is by means of an unbreakable metal tiller, an emergency tiller capable of being fitted to the rudder stock;	MoMu0,1,2,3
b)	crews must be aware of alternative methods of steering the yacht in any sea condition in the event of rudder loss. At least one method must have been proven to work on board the yacht. An inspector may require that this method be demonstrated.	MoMu0,1,2,3
<b>4.16</b>	<b>Tools and Spare Parts</b>	
	Tools and spare parts, including effective means to quickly disconnect or sever the standing rigging from the hull shall be provided.	**
<b>4.17</b>	<b>Yacht's name</b>	
	Yacht's name shall be on miscellaneous buoyant equipment, such as lifejackets, cushions, lifebuoys, lifeslings, grab bags etc.	**
<b>4.18</b>	<b>Marine grade retro-reflective material</b>	
	Marine grade retro-reflective material shall be fitted to lifebuoys, lifeslings, liferafts and lifejackets. See OSRs 5.04, 5.08.	**
<b>4.19</b>	<b>EPIRBs</b>	
a)	At least two 406 MHz EPIRBs shall be provided	MoMu0
b)	<i>It is recommended that a 406 MHz EPIRB should include an internal GPS, and also a 121.5MHz transmitter for local homing.</i>	MoMu0,1,2
c)	Every 406 MHz EPIRB shall be properly registered with the appropriate authority.	MoMu0,1,2
d)	Every ship's 406 MHz EPIRB shall be water and manually activated.	MoMu0,1,2
e)	<i>EPIRBs should be tested in accordance with manufacturer's instructions when first commissioned and then at least annually.</i>	MoMu0,1,2
f)	<i>A list of registration numbers of 406 EPIRBs should be notified to event organizers and kept available for immediate use.</i>	MoMu0,1,2
g)	<i>Consideration should be given to the provision of a locator device (e.g. an "Argos" beacon) operating on non - SAR frequencies, to aid salvage if a yacht is abandoned.</i>	MoMu0,1,2
h)	<i>Beacons with only 121.5MHz are no longer recommended for distress alerting. Satellite processing of 121.5 MHz is being phased out. 121.5MHz will continue to be used for local homing by on-board D/F systems and for local homing by SAR units. Type "E" EPIRBs are no longer supported and should be replaced immediately.</i>	MoMu0,1,2
i)	<i>See OSR 3.29.1(e) for on-board D/F and OSR 5.07.1(b) for personal EPIRBs (PLBs)</i>	MoMu0
<b>4.20</b>	<b>Liferafts</b>	<b>MoMu0,1,2</b>
<b>4.20.1</b>	<b>Liferaft Construction and Packed Equipment</b>	
a)	A sufficient number of liferafts shall be provided so that in the event of any one liferaft being lost or rendered unserviceable, sufficient aggregate capacity remains for all persons on board	MoMu0
b)	Liferafts shall comply with SOLAS LSA code 1997 Chapter IV or later version except that they are acceptable with a capacity of 4 persons and may be packed in a valise. A SOLAS liferaft shall contain at least a SOLAS "A" pack.	MoMu0
<b>4.20.3</b>	<b>Liferaft Packing and Stowage</b>	<b>MoMu0,1,2</b>
	A Liferaft shall be either:-	MoMu0,1,2
a)	packed in a transportable rigid container or canister and stowed on the working deck or in the cockpit, or:-	MoMu0,1,2
b)	packed in a transportable rigid container or canister or in a valise and stowed in a purpose-built rigid compartment containing liferaft(s) only and opening into or adjacent to the cockpit or working deck, or through a transom, provided that:-	MoMu0,1,2
i	each compartment is watertight or self-draining (self-draining compartments will be counted as part of the cockpit volume except when entirely above working deck level or when draining independently	MoMu0,1,2

ii	overboard from a transom stowage - see OSR 3.09) and- the cover of each compartment is capable of being easily opened under water pressure, and-	MoMu0,1,2
iii	the compartment is designed and built to allow a liferaft to be removed and launched quickly and easily, or-	MoMu0,1,2
v	Liferaft stowage on a multihull shall be such that each liferaft may be readily removed and launched whether or not the yacht is inverted.	Mu0,1,2
c)	The end of each liferaft painter should be permanently made fast to a strong point on board the yacht.	MoMu0,1,2
<b>4.20.4</b>	<b>Liferaft Launching</b>	<b>MoMu0,1,2</b>
a)	Each raft shall be capable of being got to the lifelines or launched within 15 seconds.	MoMu0,1,2
b)	<i>Each liferaft of more than 40kg weight should be stowed in such a way that the liferaft can be dragged or slid into the sea without significant lifting</i>	MoMu0,1,2
<b>4.20.5</b>	<b>Liferaft Servicing and Inspection</b>	<b>MoMu0,1,2</b>
	<i>IMPORTANT NOTICE Recent evidence has shown that packaged liferafts are vulnerable to serious damage when dropped (e.g. from a boat onto a marina pontoon) or when subjected to the weight of a crew member or heavy object (e.g. an anchor). Damage can be caused internally by the weight of the heavy steel CO2 bottle abrading or splitting neighbouring layers of buoyancy tube material. ISAF has instituted an investigation into this effect and as an interim measure requires that every valise-packed liferaft shall have an annual certificate of servicing. A liferaft should be taken for servicing if there is any sign of damage or deterioration (including on the underside of the pack). Persons in charge should insist on great care in handling liferafts and apply the rules NO STEP and DO NOT DROP UNLESS LAUNCHING INTO THE SEA.</i>	MoMu0,1,2
a)	Certificates or copies, of servicing and/or inspection shall be kept on board the yacht. Every SOLAS liferaft and every valise-packed liferaft shall have a valid annual certificate of new or serviced status from the manufacturer or his approved service station.	MoMu0,1,2
b)	A liferaft built to OSR Appendix A part I ("ORC") packed in a rigid container or canister shall either be serviced annually or may, when the manufacturer so specifies, be inspected annually (not necessarily unpacked) provided the yacht has on board written confirmation from the manufacturer's approved service station stating that the inspection was satisfactory.	MoMu0,1,2
<b>4.21.2</b>	<b>Grab Bags to Accompany Liferafts</b>	
a)	<i>A yacht is recommended to have for each liferaft, a grab bag with the following minimum contents. A grab bag should have inherent flotation, at least 0.1 m<sup>2</sup> area of fluorescent orange colour on the outside, should be marked with the name of the yacht, and should have a lanyard and clip.</i>	MoMu0,1,2
b)	<i>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</i>	MoMu0,1,2
<b>4.21.3</b>	<b>Grab Bag Recommended Contents</b>	
g)	<i>a watertight flashlight with spare batteries and bulb</i>	MoMu0,1,2
h)	<i>dry suits or thermal protective aids or survival bags</i>	
i)	<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 &gt;30m line diameter &gt;9.5 mm</i>	MoMu0,1,2
j)	<i>two safety tin openers (if appropriate)</i>	MoMu0,1,2
k)	<i>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.</i>	MoMu0,1,2
l)	<i>signalling mirror</i>	MoMu0,1,2
m)	<i>high-energy food (min 10 000kJ per person recommended for Cat Zero)</i>	MoMu0,1,2
n)	<i>nylon string, polythene bags, seasickness tablets (min 6 per person)</i>	MoMu0,1,2

- recommended)*
- o) *watertight hand-held aviation VHF transceiver (if race area warrants)* MoMu0,1,2
  - p) *water in re-sealable containers and a hand-operated desalinator* MoMu0
  - q) *hand-held satellite telephone with waterproof cover and internal batteries* MoMu0
  - r) *strobe light* MoMu0
  - s) *medical supplies including any for pre-existing medical conditions of any crew member* MoMu0
  - t) *spare unbreakable spectacles for any crew members needing them* MoMu0
  - u) *wet notebook with captive pencil* MoMu0
  - v) *powerful whistle (operated by mouth)* MoMu0
  - w) *6 red SOLAS compliant parachute flares, 3 white parachute flares, 2 orange SOLAS compliant smoke flares, cyalume-type light sticks* MoMu0
  - x) *a watertight, high-powered torch (flashlight) with spare batteries and bulbs* MoMu0
  - y) *watertight hand-held EPFS (Electronic Position-Fixing System) (e.g. GPS)* MoMu0
  - z) *SART (Search and Rescue Transponder)* MoMu0
  - aa) *406MHz or type "E" EPIRB registered to the yacht (see OSR 4.19.2)* MoMu0

**4.21.4 Swimmer of the Watch Bag** MoMu0

- a) *It is recommended to keep a bag, stored ready for immediate use within reach of the main companionway hatch, to facilitate the recovery of a man overboard by a swimmer of the watch and containing-* MoMu0
- b) *50 metres of buoyant 8mm rope* MoMu0
- c) *a pair of swim fins* MoMu0
- d) *a semi-automatic life jacket* MoMu0
- e) *suitable clothing to effect a man overboard recovery in cold water* MoMu0

**4.22 Lifebuoys**

- 4.22.1 The following shall be provided within reach of the helmsman and ready for instant use: \*\*
- a) a lifebuoy with a self-igniting light and a drogue or a Lifesling with a self-igniting light and without a drogue. \*\*
  - b) In addition to a) above, one lifebuoy within reach of the helmsman and ready for instant use, equipped with: MoMu0,1,2
    - i a whistle, a drogue, a self-igniting light and MoMu0,1,2
    - ii a pole and flag. The pole shall be either permanently extended or be capable of being fully automatically extended (not extendable by hand) in less than 20 seconds. It shall be attached to the lifebuoy with 3 m (10 ft) of floating line and is to be of a length and so ballasted that the flag will fly at least 1.8 m (6 ft) off the water. MoMu0,1,2
    - iii Each lifebuoy shall be equipped with a sachet of fluoresceine dye MoMu0
- 4.22.2 When at least two lifebuoys (and/or Lifeslings) are carried, at least one of them shall depend entirely on permanent (e.g. foam) buoyancy. MoMu0,1,2
- 4.22.3 Each inflatable lifebuoy and any automatic device (e.g. pole and flag extended by compressed gas) shall be tested and serviced at intervals in accordance with its manufacturer's instructions. \*\*
- 4.22.4 Each lifebuoy or lifesling shall be fitted with marine grade retro-reflective material (4.18). \*\*
- 4.22.5** *It is recommended that the colour of each lifebuoy be a safety colour in the yellow-red range.* \*\*

**4.23 Pyrotechnic and Light Signals**

- 4.23.1 Pyrotechnic signals shall be provided conforming to SOLAS LSA Code Chapter III Visual Signals and not older than the stamped expiry date (if any) or if no expiry date stamped, not older than 4 years. \*\*
- | red parachute flares LSA III | red hand flares LSA III | orange smoke LSA III | race category |
|------------------------------|-------------------------|----------------------|---------------|
| 3.1                          | 3.2                     | 3.3                  |               |
| 6                            | 4                       | 2                    | MoMu0,1       |
| 4                            | 4                       | 2                    | MoMu2,3       |
|                              | 4                       | 2                    | Mo4           |
| 2                            | 4                       | 2                    | Mu4           |

TABLE 13

**4.24 Heaving Line** \*\*

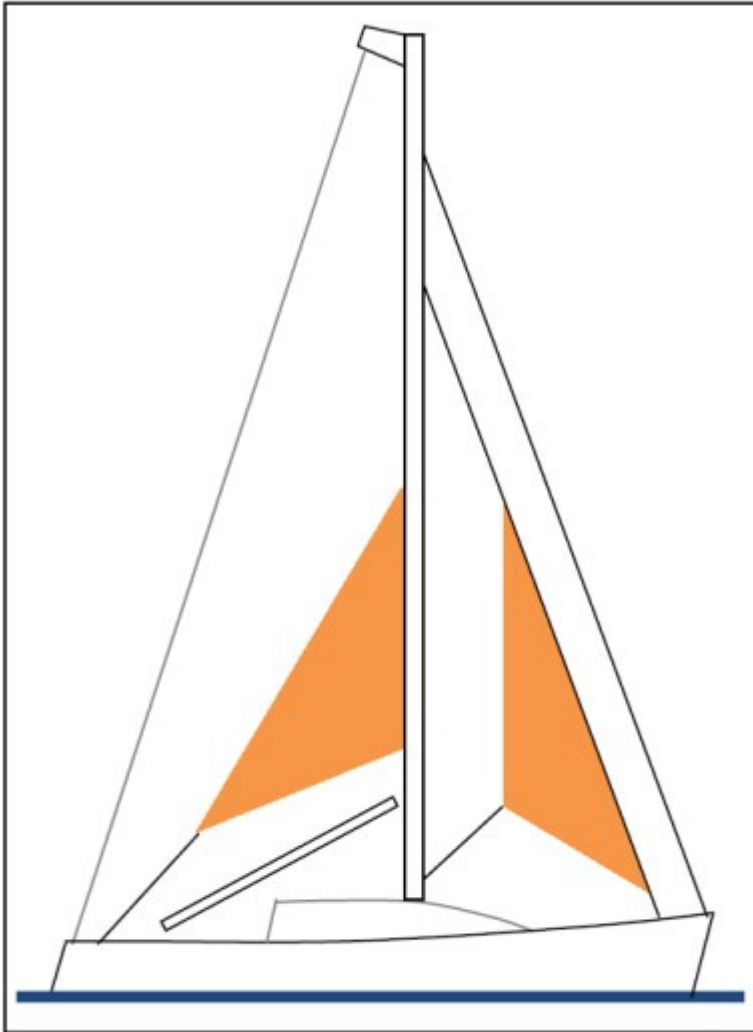
a)	a heaving line shall be provided 15 m - 25 m (50 ft - 75 ft) length readily accessible to cockpit.	**
b)	<i>the "throwing sock" type is recommended - see Appendix D</i>	**
<b>4.25</b>	<b>Cockpit Knife</b>	
	A strong, sharp knife, sheathed and securely restrained shall be provided readily accessible from the deck or a cockpit.	**
<b>4.26</b>	<b>Storm &amp; Heavy Weather Sails</b>	
<b>4.26.1</b>	<b>Design</b>	
a)	<b>it is strongly recommended that persons in charge consult their designer and sailmaker to decide the most effective size for storm and heavy weather sails. The purpose of these sails is to provide safe propulsion for the yacht in severe weather -they are not intended as part of the racing inventory. The areas below are maxima. Smaller areas are likely to suit some yachts according to their stability and other characteristics.</b>	**
<b>4.26.2</b>	<b>High Visibility</b>	
a)	Every storm jib shall either be of highly-visible coloured material (e.g. dayglo pink, orange or yellow) or have a highly-visible coloured patch at least 50% of the area of the sail (up to a maximum diameter of 3m) added on each side; and also that a rotating wing mast should have a highly-visible coloured patch on each side. A storm sail purchased after January 2014 shall have the material of the body of the sail a highly-visible colour.	**
b)	<i>it is strongly recommended that the storm trysail should either be made of or have a patch of highly visible colour.</i>	**
<b>4.26.3</b>	<b>Materials</b>	
a)	aromatic polyamides, carbon and similar fibres shall not be used in a trysail or storm jib but spectra/dyneema and similar materials are permitted.	**
b)	<i>it is strongly recommended that a heavy-weather jib does not contain aromatic polyamides, carbon and similar fibres other than spectra/dyneema.</i>	**
<b>4.26.4</b>	<b>The following shall be provided:-</b>	
a)	sheeting positions on deck for each storm and heavy-weather sail;	**
b)	for each storm or heavy-weather jib, a means to attach the luff to the stay, independent of any luff-groove device. A heavy weather jib shall have the means of attachment readily available. A storm jib shall have the means of attachment permanently attached; Storm and heavy weather jib areas shall be calculated as: (0.255 x luff length x (luff perpendicular + 2 x half width))* To apply to sails made in January 2012 and after.	**
c)	a storm trysail which shall be capable of being sheeted independently of the boom with trysail area not greater than 17.5% mainsail hoist (P) x mainsail foot length (E). The storm trysail area shall be measured as (0.5 x leech length x shortest distance between tack point and leech). The storm trysail shall have neither headboard nor battens, however a storm trysail is not required in a yacht with a rotating wing mast which can adequately substitute for a trysail. The method of calculating area applies to sails made in January 2012 and after.	MoMu 0,1,2
d)	the storm trysail as required by OSR 4.26.4 (c) shall have the yacht's sail number and letter(s) shall be placed on both sides of the trysail (or on a rotating wing mast as substitute for a trysail) in as large a size as practicable;	Extract File Only MoMu 0,1,2
e)	a storm jib of area not greater than 5% height of the foretriangle squared, with luff maximum length 65% height of the foretriangle;	MoMu0,1,2
f)	a heavy-weather jib (or heavy-weather sail in a yacht with no forestay) of area not greater than 13.5% height of the foretriangle squared;	**
h)	in the case of a yacht with an in-mast furling mainsail, the storm trysail must be capable of being set while the mainsail is furled.	MoMu0,1,2
i)	<i>A trysail track should allow for the trysail to be hoisted quickly when the mainsail is lowered whether or not the mainsail is stowed on the main</i>	<i>MoMu0,1,2</i>

boom.

*It is strongly recommended that a boat has either a dedicated trysail track permanently installed with the entry point accessible to a person standing on the main deck or coachroof, or a permanently installed stay on which to hank the trysail.*

- k) *It is strongly recommended that an inner forestay is provided either permanently installed or readily set up, on which to set the storm jib.*

MoMu0,1,2



**Figure 3**

**4.27 Drogue, Sea Anchor**

- 4.27.2 A drogue for deployment over the stern, or alternatively a sea anchor or parachute anchor for deployment at the bow, shall be provided complete with all gear needed to rig and deploy the sea anchor or drogue to withstand long periods in rough conditions (see OSR Appendix F)

**MoMu0,1**  
MoMu0

**4.28 Man Overboard Alarm**

- 4.28.1 Each yacht shall be equipped with a man overboard alarm including an emergency button immediately accessible to a helmsman which will sound an audible alarm in the accommodation and simultaneously send an appropriate signal to the ship's navigational software

**MoMu0**  
MoMu0

- 4.28.2 *A yacht is recommended to be equipped with an EPFS (e.g. GPS) capable of immediately recording a man overboard position from each helm station*

*MoMu 1, 2*

- 4.28.3 A yacht shall be equipped with an EPFS (e.g. GPS) capable of immediately recording a man overboard position from each helm station (From January 2012)

MoMu 1, 2

**SECTION 5 - PERSONAL EQUIPMENT**

**5.01 Lifejacket**

- 5.01.1 Each crew member shall have a lifejacket as follows:-

\*\*

- a)

\*\*

- i In accordance with ISO 12402 – 3 (Level 150) or equivalent, including EN

\*\*



	396 or UL 1180	
ii	<p>Lifejackets manufactured after 1 January 2012 shall be in accordance with ISO 12402-3 (Level 150) and shall be fitted with:-</p> <ul style="list-style-type: none"> <li>• an emergency light in accordance with either ISO 12402-8 or SOLAS LSA code 2.2.3.</li> <li>• a sprayhood in accordance with ISO 12402-8.</li> <li>• a full deck safety harness in accordance with ISO 12401 (ISO 1095) including a crotch or thigh strap (holding down device) as specified in ISO 12401 (ISO 1095).</li> <li>• If of an inflatable type either <ul style="list-style-type: none"> <li>(a) automatic, manual and oral inflation or</li> <li>(b) manual and oral inflation</li> </ul> </li> </ul> <p>Notes: ISO 12402 requires Level 150 lifejackets to be fitted with a mandatory whistle and retro-reflective material. Also, when fitted with a safety harness, ISO 12402 requires that this shall be the full safety harness in accordance with ISO 12401. Any equivalent lifejacket shall have equal requirements.</p> <p>Persons of larger than average build are generally more buoyant than those of average build and so do not require a lifejacket with greater levels of flotation. Wearing a Level 275 lifejacket may hamper entry into liferafts.</p>	**
b)	<p>fitted with either a crotch strap(s) / thigh straps or a full safety harness in accordance with ISO 12401,</p> <p>Note: The function of lifejacket crotch/thigh straps is to hold the buoyancy element down. A crew member before a race should adjust a lifejacket to fit then retain that lifejacket for the duration of the race. Correct adjustment is fundamental to the lifejacket functioning correctly.</p>	**
c)	fitted with a lifejacket light in accordance with SOLAS LSA code 2.2.3 (white, >0.75 candelas, >8 hours),	**
d)	if inflatable have a compressed gas inflation system,	**
e)	if inflatable, regularly checked for gas retention,	**
f)	compatible with the wearer's safety harness,	**
g)	clearly marked with the yacht's or wearer's name,	**
h)	fitted with a splashguard / sprayhood in accordance with ISO 12402 – 8,	MoMu0
i)	Fitted with a PLB unit (as with other types of EPIRB, should be properly registered with the appropriate authority)	MoMu0
5.01.2	For every gas inflatable lifejacket a spare cylinder and if appropriate a spare activation head shall be carried.	MoMu0
5.01.3	Each yacht shall carry a spare lifejacket or lifejacket(s) as required in OSR 5.01.1 sufficient for at least 10% of the total number of persons on board (minimum one spare lifejacket). At least one of the required spare lifejacket(s) shall be a semi - automatic for use in man overboard recovery.	MoMu0
5.01.4	The person in charge shall personally check each lifejacket at least once annually.	**
<b>5.02</b>	<b>Safety Harness and Safety Lines (Tethers)</b>	<b>MoMu0,1,2,3</b>
5.02.1	<p>Each crew member shall have a harness and safety line that complies with ISO 12401 or equivalent with a safety line not more than 2m in length. Harnesses and safety lines manufactured prior to Jan 2010 shall comply with either ISO 12401 or EN 1095.</p> <p>Harnesses and safety lines manufactured prior to Jan 2001 are not permitted.</p>	MoMu0,1,2,3
<b>a)</b>	<b>Warning it is possible for a plain snaphook to disengage from a U bolt if the hook is rotated under load at right-angles to the axis of the U-bolt. For this reason the use of snaphooks with positive locking devices is strongly recommended.</b>	<b>MoMu0,1,2,3</b>
5.02.2	At least 30% of the crew shall each, in addition to the above be provided with either:-	MoMu0,1,2,3
a)	a safety line not more than 1m long, or	MoMu0,1,2,3
b)	a mid-point snaphook on a 2m safety line	MoMu0,1,2,3
c)	Each yacht shall carry spare harness and safety line units as required in	Mo0



	OSR 5.02.1 above sufficient for at least 10% of the total number of persons on board (minimum one unit).	
5.02.3	A safety line purchased in January 2001 or later shall have a coloured flag embedded in the stitching, to indicate an overload. A line which has been overloaded shall be replaced as a matter of urgency.	MoMu0,1,2,3
5.02.4	A crew member's lifejacket and harness shall be compatible	MoMu0,1,2,3
5.02.5	<i>It is strongly recommended that:-</i>	<i>MoMu0,1,2,3</i>
a)	<i>static safety lines should be securely fastened at work stations;</i>	<i>MoMu0,1,2,3</i>
b)	<i>A harness should be fitted with a crotch strap or thigh straps.</i>	<i>MoMu0,1,2,3</i>
c)	<i>to draw attention to wear and damage, stitching on harness and safety lines should be of a colour contrasting strongly with the surrounding material;</i>	<i>MoMu0,1,2,3</i>
d)	<i>snaphooks should be of a type which will not self-release from a U-bolt (see OSR 5.02.1(a)) and which can be easily released under load (crew members are reminded that a personal knife may free them from a safety line in emergency);</i>	<i>MoMu0,1,2,3</i>
e)	<i>a crew member before a race should adjust a harness to fit then retain that harness for the duration of the race.</i>	<i>MoMu0,1,2,3</i>
5.02.6	<i>Warning - a safety line and safety harness are not designed to tow a person in the water and it is important that the shortest safety line length possible be used with a harness to minimise or eliminate the risk of a person's torso becoming immersed in water outside the boat, especially when working on the foredeck. 1m safety lines or the midpoint snaphook on a 2m line should be used for this purpose. The diligent use of a properly adjusted safety harness and the shortest safety line practicable is regarded as by far the most effective way of preventing man overboard incidents.</i>	<i>**</i>
<b>5.03</b>	<b>Personal Location Lights</b>	<b>MoMu0</b>
a)	two packs of miniflares or two personal location lights (either SOLAS or strobe) shall be provided for each crew member: one should be attached to, or carried on, the person when on deck at night.	MoMu0
<b>5.04</b>	<b>Foul Weather Suits</b>	
a)	a foul weather suit with hood shall be supplied to each crew member .	MoMu0
b)	<i>it is recommended that a foul weather suit should be fitted with marine-grade retro-reflective material, and should have high-visibility colours on its upper parts and sleeve cuffs. See OSR 4.18</i>	<i>**</i>
<b>5.05</b>	<b>Knife</b>	<b>MoMu0</b>
	A knife, one shall be supplied to each crew member to be worn on the person at all times	MoMu0
<b>5.06</b>	<b>Watertight flashlight</b>	<b>MoMu0</b>
	A buoyant watertight flashlight, one shall be supplied to each crew member.	MoMu0
<b>5.07</b>	<b>Survival Equipment</b>	<b>MoMu0</b>
5.07.1	One set of Survival Equipment shall be supplied to each crew member to include:-	MoMu0
a)	an immersion suit (attention is drawn to EN ISO 15027-1 constant wear suits, and EN ISO 15027-2 abandonment suits and the LSA Code Chapter II, 2,3);	MoMu0
b)	a PLB (Personal Locator Beacon) equipped with 406MHz and 121.5Mhz;	MoMu0
c)	a personal unit in addition to the PLB in OSR 4.07.1(b) if the location device carried by the yacht in accordance with OSR 3.29.1(h) requires it;	MoMu0
d)	<i>Attention is drawn to the value of keeping on the person a combined 406MHz/121.5MHz PLB when on deck: this may aid location in a man overboard incident independent of the equipment carried by the parent vessel</i>	<i>MoMu0,1,2</i>
e)	<i>All PLB units, as with other types of EPIRB, should be properly registered with the appropriate authority</i>	<i>MoMu0,1,2</i>
<b>5.08</b>	<b>Diving Equipment</b>	

5.08.1 A yacht shall carry at least two diving suits each to cover the entire body and including gloves, fins and portable air supplies. MoMu0

## SECTION 6 - TRAINING

**6.01 At least 30% but not fewer than two members of a crew, including the skipper shall have undertaken training within the five years before the start of the race in both 6.02 topics for theoretical sessions, and 6.03 topics which include practical, hands-on sessions.** MoMu1,2

6.01.2 Every member of a crew including the skipper shall have undertaken training as in OSR 6.01 MoMu0

6.01.4 Except as otherwise provided in the Notice of Race, an in-date certificate gained at an ISAF Approved Offshore Personal Survival Training course shall be accepted by a race organizing authority as evidence of compliance with Special Regulation 6.01. See Appendix G - Model Training Course, for further details. MoMu0,1,2

### 6.02 Training Topics for Theoretical Sessions

6.02.1 care and maintenance of safety equipment MoMu0,1,2

6.02.2 storm sails MoMu0,1,2

6.02.3 damage control and repair MoMu0,1,2

6.02.4 heavy weather - crew routines, boat handling, drogues MoMu0,1,2

6.02.5 man overboard prevention and recovery MoMu0,1,2

6.02.6 giving assistance to other craft MoMu0,1,2

6.02.7 hypothermia MoMu0,1,2

6.02.8 SAR organisation and methods MoMu0,1,2

6.02.9 weather forecasting MoMu0,1,2

### 6.03 Training Topics for Practical, Hands-On Sessions MoMu0,1,2

6.03.1 liferafts and lifejackets MoMu0,1,2

6.03.2 fire precautions and use of fire extinguishers MoMu0,1,2

6.03.3 communications equipment (VHF, GMDSS, satcomms, etc.) MoMu0,1,2

6.03.4 pyrotechnics and EPIRBs MoMu0,1,2

### 6.04 Routine Training On-Board \*\*

6.04.1 *It is recommended that crews should practice safety routines at reasonable intervals including the drill for man-overboard recovery* \*\*

### 6.05 Medical Training MoMu0

6.05.1 At least one member of the crew shall have a valid STCW 95 A-VI/4-2 (Proficiency In Medical Care) certificate or equivalent MoMu0

6.05.2 In addition to 6.05.1 another member of the crew shall have a first aid certificate completed within the last five years meeting any of the following requirements: MoMu0

i A certificate listed on the ISAF website [www.sailing.org/specialregs](http://www.sailing.org/specialregs) of MNA recognised courses

ii STCW 95 First Aid Training complying with A-VI/1-3 – Elementary First Aid or higher STCW level

6.05.4 *An example model first aid training course is included in Appendix N.* \*\*

### 6.06 Diving Training MoMu0

6.06.1 At least 30% of the crew shall have received appropriate diving training to enable them to carry out basic repairs underwater and to provide assistance if necessary in recovery of a man overboard MoMu0

## APPENDICES TO SPECIAL REGULATIONS

Appendix A - Minimum Specification for Yachtsmens Liferafts

Appendix B - A guide to ISO and other Standards

Appendix C - Standard Inspection Card

Appendix D - Quickstop & Lifesling

Appendix E - Hypothermia

Appendix F - Drogues and sea anchors

Appendix G - Model Training Course

Appendix H - ISAF Code for the organisation of Oceanic Races

Appendix M - Hull Construction Standards (Scantlings)

**APPENDIX M - Hull Construction Standards (Scantlings)  
(Monohulls pre-2010 and Multihulls)**

m1	A monohull with the earliest of Age or Series Date before the 1 January 2010 shall comply with OSR 3.03.1, 3.03.2 and 3.03.3 or with this appendix. A multihull shall comply with this appendix.	MoMu0,1,2
	TABLE 2	MoMu0,1,2
	LOA	race category
	all	MoMu0,1
	12m (39.4 feet) and over	MoMu2
	under 12m (39.4 feet)	MoMu2
m2	A yacht defined in the table above shall have been designed built, maintained, modified and repaired in accordance with the requirements of either:	MoMu0,1,2
a)	the EC Recreational Craft Directive for Category A (having obtained the CE mark), or	MoMu0,1,2
b)	the ABS Guide for Building and Classing Offshore Yachts in which case the yacht shall have on board either a certificate of plan approval issued by ABS, or written statements signed by the designer and builder which confirm that they have respectively designed and built the yacht in accordance with the ABS Guide,	MoMu0,1,2
c)	ISO 12215 Category A, with written statements signed by the designer and builder which confirm that they have respectively designed and built the yacht in accordance with the ISO standard,	MoMu0,1,2
d)	except that a race organizer or class rules may accept when that described in (a), (b), or (c) above is not available, the signed statement by a naval architect or other person familiar with the standards listed above that the yacht fulfills the requirements of (a), (b), or (c).	MoMu0,1,2
m3	Any significant repairs or modifications to the hull, deck, coachroof, keel or appendages, on a yacht defined in table 2 shall be certified by one of the methods above and an appropriate written statement or statements shall be on board.	MoMu0,1,2

end of  
file