ISAF OFFSHORE SPECIAL REGULATIONS

www.sailing.org/specialregs

Extract for Race Category 1 Monohulls 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

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)

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

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

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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

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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 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 Ballast 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) Means the item is effectively built-in by e.g. bolting, welding, glassing etc. and may Permanently Installed not be removed for or during racing. PLB Personal Locator Beacon Proa Asymmetric Catamaran ISAF - Racing Rules of Sailing **RRS** Search and Rescue SAR **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 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 **Fastened** 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. A safety line (usually shorter than a safety line carried with a harness) kept clipped **Static Safety** Line on at a work-station Water carried for the sole purpose of influencing stability and/or trim and which Variable may be varied in weight and/or moved while a boat is racing. Ballast ** 1.03.2 The words "shall" and "must" are mandatory, and "should" and "may" are permissive. ** The word "yacht" shall be taken as fully interchangeable with the word "boat". 1.03.3 **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: 2.01.2 Category 1 Races of long distance and well offshore, where yachts must be completely MoMu,1 self-sufficient for extended periods of time, capable of withstanding heavy storms and prepared to meet serious emergencies without the expectation of outside assistance. 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 be regularly checked, cleaned and serviced b) when not in use be stowed in conditions in which deterioration is minimised ** c) ** d) be readily accessible be of a type, size and capacity suitable and adequate for the intended use and ** e) size of the yacht. 2.03.2 Heavy items: ** ballast, ballast tanks and associated equipment shall be permanently installed a) heavy movable items including e.g. batteries, stoves, gas bottles, tanks, ** b) 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.	
SECTIO	N 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	
2 02 2	normal trim.	**
3.02.3	A canting keel pivot shall be completely contained within a watertight	de de
	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	**
3.02.4	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		MoMu0,1,2
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3.03.1 a) b)	A yacht of less than 24m in hull length (measured in accordance with ISO 8666) with the earliest of Age or Series Date on or after 1 January 2010 shall have: • been designed, built and maintained in accordance with the requirements of ISO 12215 Category A * • on board a certificate of building plan review from a notified body recognized by ISAF. • on board a declaration signed and dated by the builder to confirm the yacht is built in accordance with the plans reviewed by the Notified Body. A yacht of 24m in hull length and over (measured in accordance with ISO 8666) with the earliest of Age or Series Date on or after 1 January 2010 shall have: • been designed, built and maintained in accordance with the requirements of a Classification Society recognized by ISAF • on board a certificate of building plan review from a Classification Society recognized by ISAF • on board a declaration signed and dated by the builder to confirm the yacht is built in accordance with the plans reviewed by the Classification Society. A yacht of less than 24m in hull length (measured in accordance with ISO 8666), with the earliest of Age or Series Date on or after 1 January 2010, if subject to any significant repair or modification to the hull, deck, coachroof, keel or appendages on or after the 1 January 2010, shall have • the repair or modification designed and built in accordance with ISO 12215	Mo0,1,2 Mo0,1,2 Mo0,1,2

 on board a declaration signed and dated by the builder to confirm that the repair or modification is in accordance with the requirements of ISO 12215 Category A * b) A yacht of 24m in hull length and over (measured in accordance with ISO Mo0,1,28666), with the earliest of Age or Series Date on or after 1 January 2010, if subject to any significant repair or modification to the hull, deck, coachroof, keel or appendages on or after the 1 January 2010, shall have • the repair or modification designed and built in accordance with the requirements of a Classification Society recognized by ISAF • on board a certificate of building plan review for the repair or modification from a Classification Society recognized by ISAF • on board a declaration signed and dated by the builder to confirm that the repair or modification is in accordance with the plans reviewed by the Classification Society. 3.03.3 In cases when a builder no longer exists a race organizer or class rules may Mo0,1,2accept a signed statement by a naval architect or other person familiar with the requirements of 3.031 and 3.03.2 above and in lieu of the builders declaration required by 3.031 and 3.03.2 above. 3.03.4 A monohull with the earliest of Age or Series Date before the 1 January 2010 Extract File Only shall comply with 3.03.1, 3.03.2 and 3.03.3 above or with appendix M to these Mo0,1,2OSR. A multihull shall comply with appendix M to these OSR. * or as from time to time specified by ISAF 3.04 **Stability - Monohulls** Mo0,1,2,3,4 3.04.2 A yacht shall be designed and built to resist capsize. Mo0,1,2,3,4 3.04.3 A race organizer should require compliance with a minimum stability or Mo0,1,2,3,4 stability/buoyancy index. Attention is drawn to the stability index in the ORC Rules and Regulations. 3.04.4 Achievement of Design Category A under ISO 12217-2 may be accepted by a extract file only Cat race organizer as a guide to general suitability for competition in a Special 1 Regulations Category 1 race. 3.04.5 Use of the ISO or any other index does not guarantee total safety or total Mo0,1,2,3,4 freedom of risk from capsize or sinking. For boats with moveable or variable ballast the method in OSR 3.04.4 shall 3.04.6 Mo0,1,2,3,4 apply plus the relevant additional requirement of OSR Appendix K. 3.04.7 Tanks for variable ballast shall be permanently installed and shall be provided Mo0,1,2,3,4 with a system of isolating valves and pump(s) capable of manual operation at any angle of heel. A plan of the plumbing system shall be displayed aboard the boat. 3.06 **Exits - Monohulls** Mo0,1,2,3,4 3.06.1 Yachts of LOA of 8.5 m (28 ft) and over with age or series date after January Mo0,1,2,3,4 1995 and after shall have at least two exits. At least one exit shall be located forward of the foremost mast except where structural features prevent its installation. 3.06.2 Yachts first launched on or after January 2014 have a hatch with the following Mo0,1,2,3,4 minimum clear openings in compliance with ISO 9094: - Circular shape: diameter 450mm; - Any other shape: minimum dimension of 380mm and minimum area of 0.18m2. The dimension must be large enough to allow for a 380mm diameter circle to be inscribed. The measurement of the minimum clear opening is illustrated in Figure 1.

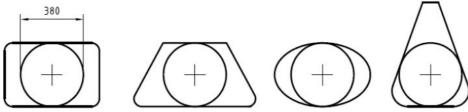


Figure 1 - Measurements of Minimum Clear Opening

	3.06.3	when first launched prior to January 2014, if possible have each escape hatch in compliance with the dimensions in OSR 3.07.2(a)(ii);	Mo0,1,2,3,4
	3.08	Hatches & Companionways	
,	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 0.071m2 (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 0.071m2 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:	
•	a)	so arranged as to be above the water when the hull is heeled 90 degrees. Hatches over lockers that open to the interior of the vessel shall be included in this requirement. A yacht may have a maximum of four (two on each side of centerline) hatches that do not conform to this requirement, provided that the opening of each is less than 0.071 sq m (110 sq in). Effective for boats of a series begun after January 1, 2009, a written statement signed by the designer or other person who performed the downflooding analysis shall be carried on board. For purposes of this rule the vessel's displacement condition for the analysis shall be the Light Craft Condition LCC (in conformity with 6.3 of the EN ISO 8666 standard and 3.5.1 of the EN ISO12217-2 standard).	Mo0,1,2,3,4
	b)	permanently attached	**
	-		**
(c)	capable of being firmly shut immediately and remaining firmly shut in a 180	11-11-
	2 00 4	degree capsize (inversion)	
	3.08.4 a)	A companionway hatch shall: 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	**
	i ii	whether or not in position in the hatchway, secured to the yacht (e.g. by	**
	11	, , , , , , , , , , , , , , , , , , , ,	
	:::	lanyard) for the duration of the race, to prevent their being lost overboard	**
	iii	permit exit in the event of inversion	
	3.08.5	If the companionway extends below the local sheerline and the boat has a	Mo0,1,2,3,4
		cockpit opening aft to the sea the boat shall comply with one of the following:	
	a)	the companionway sill shall not extend below the local sheerline. Or	Mo0,1,2,3,4
	b)	be in full compliance with all aspects of ISO 11812 to design category A	Mo0,1,2,3,4
	3.08.6	For boats with a cockpit closed aft to the sea where the companionway hatch	Mo0,1,2,3,4
		extends below the local sheerline, the companionway shall be capable of being	
		blocked off up to the level of the local sheerline, provided that the	
		companionway hatch shall continue to give access to the interior with the	
		blocking devices (e.g. washboards) in place	
	3.09	Cockpits - Attention is Drawn to ISO 11812	
	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	**
•	5.05.5	purposes of OSR 3.09	
	3.09.6	In cockpits opening aft to the sea structural openings aft shall be not less in	**
•	J.UJ.U		
	2 00 7	area than 50% maximum cockpit depth x maximum cockpit width.	
	3.09.7	Cockpit Volume	
ı	i)	earliest of age or series date before April 1992	Endurant Eller Onli
		the total volume of all cockpits below lowest coamings shall not exceed 6%	Extract File Only

(LWL x maximum beam x freeboard abreast the cockpit). 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 Extract File Only ** 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 IMS-rated boats may instead of the terms LWL, maximum beam, freeboard Extract File Only ** abreast the cockpit, use the IMS terms L, B and FA. 3.09.8 **Cockpit Drains** See OSR 3.09.1. Cockpit drain cross section area (after allowance for screens if fitted) shall be:in yachts with earliest of age or series date before 1/72 or in any yacht under ** a) 8.5m (28ft) LOA - at least that of 2 x 25mm diameter (one inch) unobstructed openings or equivalent ** in yachts with earliest of age or series date 1/72 and later - at least that of 4 x b) 20mm diameter (3/4 inch) unobstructed openings or equivalent 3.10 **Sea Cocks or Valves** 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. 3.11 **Sheet Winches** ** Sheet winches shall be mounted in such a way that an operator is not required to be substantially below deck. **Mast Step** 3.12 The heel of a keel stepped mast shall be securely fastened to the mast step or ** adjoining structure. **Pulpits, Stanchions, Lifelines** 3.14 ** 3.14.2 Lifelines required in Special Regulations shall be "taut". **

- a) 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.
- 3.14.3 The following shall be provided:
- a) a bow pulpit with vertical height and openings essentially conforming to Table 7. Bow pulpits may be open but the opening between the pulpit and any part of the boat shall never be greater than 360mm (14.2") (this requirement shall be checked by presenting a 360mm (14.2") circle inside the opening)

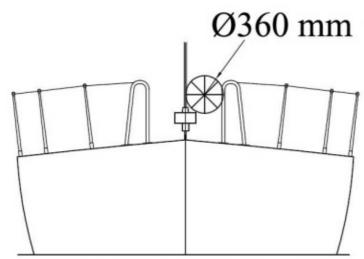


Figure 2 - Diagram Showing Pulpit Opening

- b) a stern pulpit, or lifelines arranged as an adequate substitute, with vertical openings conforming to Table 7
- 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

Mo0,1,2,3,4

**

**

Mo0,1,2,3,4

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:-	**
í	within the first 50 mm ($\frac{1}{2}$ 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 ($\frac{3}{8}$ 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.	**
<i>m)</i>	It is strongly recommended that designs also comply to ISO 15085	**
3.14.5	Lifeline Height, Vertical Openings, Number of Lifelines	

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

3.14.6 Lifeline Minimum Diameters, Required Materials, Specifications

working deck.

Lifelines shall be of: a)

- 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)			nall be uncoated and used without close-fitting	**		
		ng, nowever, temp red for inspection.	orary sleeving may be fitted provided it is regularly			
d)		-	sed, Grade 316 is recommended.	**		
<i>e)</i>			B/Spectra®) is used, it shall be spliced in accordance	**		
	with t	he manufacturer's	recommended procedures.			
f)			tic rope may be used to secure lifelines provided the	**		
			sceed 100 mm (4 in). This lanyard shall be replaced			
>		Illy at a minimum.	and the first was and leaven the shall assessing a	**		
g)			age points, fixtures and lanyards shall comprise a which has at all points at least the breaking strength	<i>ተ</i> ተ		
		required lifeline w	,			
	TABLE	•	пс.	**		
	LOA	- 0	minimum wire or rope diameter			
	unde	r 8.5 m (28ft)	3 mm (1/8 in)			
	8.5m	ı - 13 m	4 mm (5/32 in)			
		13 m (43 ft)	5 mm (3/16 in)			
3.14.7	-	•	ifelines - Limitations on Materials	**		
	TABLE		- Data datail	<i>ተ</i>		
		est of Age or Series re January 1987	s Date detail carbon fibre is not recommended in stanchions	nulnits and lifelines		
		ary 1987 and after				
3.17		Rail or Foot - Sto	· · ·	Mo0,1,2,3		
3.17.1			eight 25 mm (1 in) shall be permanently installed	Mo0,1,2,3		
			m abreast the mast, except in way of fittings and not			
			edge of the working deck than one third of the local			
2 17 2	half-b		ahall awah u	M-0 1 2 2		
3.17.2	TABLE	ollowing variations	snaii appiy:-	Mo0,1,2,3 Mo0,1,2,3		
		Earliest of Age	minimum requirements	1100,1,2,3		
	2071	or Series Date	Timiniani requiremente			
	any	before January	a toe rail minimum height of 20 mm (3/4 in) is accept	able.		
		1981				
	any	before January	an additional lifeline of minimum height 25 mm (1 in)			
		1994	50 mm (2 in) is acceptable in lieu of a toe rail (but sha intermediate lifeline).	all not count as an		
	any	January 1994	the toe rail shall be fitted as close as practicable to the	e vertical axis of		
	arry	and after	stanchion bases but not further inboard than 1/3 the I			
3.18	Toilet	t	,			
3.18.1		et, permanently ins	talled	MoMu0,1,2		
3.19	Bunk			**		
3.19.2 3.20		, permanently insta ing Facilities	alled	<i>ተ</i> ተ		
3.20.1		•	ently installed or securely fastened with safe	MoMu0,1,2,3		
3.20.1			ontrol and capable of being safely operated in a	1101100,1,2,3		
	seawa		The second companies of second control of second			
3.21	Drink	ing Water Tanks	s & Drinking Water	MoMu0,1,2,3		
3.21.1		ing Water Tanks		MoMu0,1,2,3		
a) ::	•	-	manently installed delivery pump and water tank(s):	MoMu0,1,2,3		
ii 3.21.3		ng tne water supply gency Drinking \	y into at least two compartments	MoMu1 MoMu0,1,2,3		
a)			llons, 2.4 US gallons) of drinking water for emergency	MoMu1,2,3		
u,			a dedicated and sealed container or container(s)	1 101 101/2/3		
3.22		Holds				
			all be fitted below deck so that crew members may	**		
		about safely at sea				
			rapable of withstanding without rupture a side force of			
3.23		<i>V - attention is dra</i>				
J.23	Piige	Bilge Pumps and Buckets				

3.23.1		arge into a cockpit unless that cockpit opens aft to	**
3.23.2	the sea.	connected to cockpit drains. (OSR 3.09)	**
3.23.2	9	exes shall be readily accessible for maintenance and	**
3.23.4	Unless permanently install lanyard or catch or similar	ed, each bilge pump handle shall be provided with a device to prevent accidental loss	**
3.23.5	The following shall be pro-		
a)	other from below deck. Ea hatches and companionwa discharge pipe(s) of suffic	manual bilge pumps, one operable from above, the ach pump shall be operable with all cockpit seats, ays shut and shall have permanently installed ient capacity to accommodate simultaneously both	Mo0,1,2
f)		truction each with at least 9 litres (2 UK gallons, 2.4 bucket to have a lanyard.	**
3.24	Compass	,	
3.24.1	The following shall be pro-		
a)	installed and correctly adju	ss, independent of any power supply, permanently usted with deviation card, and	**
b)	as a steering compass whi	pendent of any power supply, capable of being used ich may be hand-held	MoMu0,1,2,3
3.25 3.27	Halyards. No mast shall have less th Navigation Lights (see	an two halyards, each capable of hoisting a sail.	**
3.27.1		mounted so that they will not be masked by sails or	**
3.27.2	Navigation lights shall not	be mounted below deck level and should be at no ely under the upper lifeline.	**
3.27.3	Navigation light intensity TABLE 11	,	
	LOA under 12 m (39.4 ft)	Guide to required minimum power rating for an electronavigation light 10 W	ric bulb in a
	12 m (39.4 ft) and above	25 W	
3.27.4	specifications as the navig	shall be carried having the same minimum ation lights above, with a separable power source, m essentially separate from that used for the normal	MoMu0,1,2,3
3.27.5	5	lights shall be carried, or for lights not dependent on	**
3.28	Engines, Generators, F	uel	
3.28.1	Propulsion Engines		**
a)	manufacturers' guidelines	stems shall be installed in accordance with their and shall be of a type, strength, capacity, and e size and intended use of the yacht.	**
b)	An inboard propulsion eng permanently installed exha- tank(s); be securely cover	pine when fitted shall: be provided with a aust, coolant, and fuel supply systems and fuel ed; and have adequate protection from the effects of	**
- \	heavy weather.	and hy Consist Descriptions shall must ide a minimum	MaMile 1 2 2
c)		red by Special Regulations shall provide a minimum quare root of LWL in metres) or (square root of LWL	MoMu0,1,2,3
e) 3.28.2	•	ine shall be provided for yachts	Mo0,1,2Mu0
	A separate generator for e generator is carried it shall shall have permanently in	electricity is optional. However, when a separate I be permanently installed, securely covered, and stalled exhaust, cooling and fuel supply systems and equate protection from the effects of heavy weather.	**

2 20 2	Final Contains	
3.28.3	Fuel Systems Each fuel tank provided with a shutoff valve. Except for permanently installed	MoMu0,1,2,3
a)	linings or liners, a flexible tank is not permitted as a fuel tank.	1401410,1,2,3
b)	The propulsion engine shall have a minimum amount of fuel which may be	MoMu0,1,2,3
5)	specified in the Notice of Race but if not, shall be sufficient to be able to meet	110.100/1/2/5
	charging requirements for the duration of the race and to motor at the above	
	minimum speed for at least 8 hours	
3.28.4	Battery Systems	
a)	When an electric starter is the only method for starting the engine, the yacht	MoMu0,1,2,3
	shall have a separate battery, the primary purpose of which is to start the	
.	engine	
b)	All rechargeable batteries on board shall be of the sealed type from which	MoMu0,1,2,3
	liquid electrolyte cannot escape. Other types of battery installed on board at	
2 20	1/12 may continue in use for the remainder of their service lives.	**
3.29	Communications Equipment, EPFS (Electronic Position-Fixing System), Radar, AIS	
	Provision of GMDSS and DSC is unlikely to be mandatory for small craft during	MoMu0,1,2,3
	the term of the present Special Regulations However it is recommended that	1101140,1,2,3
	persons in charge include these facilities when installing new equipment.	
3.29.1	The following shall be provided:	**
a)	A marine radio transceiver (or if stated in the Notice of Race, an installed	MoMu0,1,2,3
	satcom terminal), and	
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	MoMu0,1,2,3
;;;	40% power loss	MaMu() 1 2 2
iii	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	MoMu0,1,2,3
	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).	
iv	it should include channel 72 (an international ship-ship channel which, by	MoMu0,1,2,3
	common use, has become widely accepted as primary choice for ocean racing	
	yachts anywhere in the world)	
e)	A hand-held marine VHF transceiver, watertight or with a waterproof cover.	MoMu1,2,3,4
	When not in use to be stowed in a grab bag or emergency container (see OSR	
f)	4.21) Independent of a main radio transceiver, a radio receiver capable of receiving	**
f)	weather bulletins	
i)	An EPFS (Electronic Position-Fixing System) (e.g. GPS)	MoMu0,1,2,3
n)	An AIS Transponder	MoMu1,2
3.29.2	Yachts are reminded that no reflector, active or passive, is a guarantee of	**
	detection or tracking by a vessel using radar.	
a)	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.	
	N 4 - PORTABLE EQUIPMENT & SUPPLIES for the yacht	
-	ter & fuel see OSR 3.21 and OSR 3.28)	
4.01 4.01.1	Sail Letters & Numbers Yachts which are not in an ISAF International Class or Recognized Class shall	**
T.U1.1	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)	Mo0,1,Mu0,1,2,3,4
4.02.1	To assist in SAR location:-	
<i>b)</i>	Each yacht is recommended to show at least 1 m^2 of fluorescent pink or	MoMu1

orange or yellow colour as far as possible in a single area on the coachroof	
,	
Each yacht is recommended to show on each underwater appendage an area	MoMu0,1
of highly-visible colour	
	. No. of
	**
	MaM0 1 2 2
•	MoMu0,1,2,3
· ·	MaN0 1 2 2
· · · · · · · · · · · · · · · · · · ·	MoMu0,1,2,3
· ·	MoMu0,1,2,3
	1401400,1,2,3
•	MoMu0,1,2,3
•	1 101 100,1,2,0
, 5.	MoMu0,1,2,3
	MoMu0,1,2,3
anchorage points adjacent to stations such as the helm, sheet winches and	, , , -
masts, where crew members work for long periods:-	
which, together with jackstays and static safety lines shall enable a crew	MoMu0,1,2,3
member-	
to clip on before coming on deck and unclip after going below;	MoMu0,1,2,3
whilst continuously clipped on, to move readily between the working areas on	MoMu0,1,2,3
deck and the cockpit(s) with the minimum of clipping and unclipping	
·	
	MoMu0,1,2,3
, ,,	
•	**
	MoMu0,1,2,3
	1110111110,1,2,3
·	**
	**
For yachts of 8.5 m LOA (28 ft) and over there shall be 2 anchors together	MoMu1,2,3
with a suitable combination of chain and rope, all ready for immediate use	, ,
For yachts under 8.5 m LOA (28 ft) there shall be 1 anchor together with a	MoMu1,2,3
suitable combination of chain and rope, all ready for immediate use	
Flashlight(s) and Searchlight(s)	
·	
The following shall be provided:-	
The following shall be provided:- A watertight, high-powered searchlight, suitable for searching for a person	**
The following shall be provided:- A watertight, high-powered searchlight, suitable for searching for a person overboard at night and for collision avoidance with spare batteries and bulbs,	**
The following shall be provided:- A watertight, high-powered searchlight, suitable for searching for a person overboard at night and for collision avoidance with spare batteries and bulbs, and	
The following shall be provided:- A watertight, high-powered searchlight, suitable for searching for a person overboard at night and for collision avoidance with spare batteries and bulbs, and a watertight flashlight with spare batteries and bulb	**
The following shall be provided:- A watertight, high-powered searchlight, suitable for searching for a person overboard at night and for collision avoidance with spare batteries and bulbs, and a watertight flashlight with spare batteries and bulb First Aid Manual and First Aid Kit	** **
The following shall be provided:- A watertight, high-powered searchlight, suitable for searching for a person overboard at night and for collision avoidance with spare batteries and bulbs, and a watertight flashlight with spare batteries and bulb First Aid Manual and First Aid Kit A suitable First Aid Manual shall be provided	** ** **
The following shall be provided:- A watertight, high-powered searchlight, suitable for searching for a person overboard at night and for collision avoidance with spare batteries and bulbs, and a watertight flashlight with spare batteries and bulb First Aid Manual and First Aid Kit A suitable First Aid Manual shall be provided In the absence of a National Authority's requirement, the latest edition of one	** **
The following shall be provided:- A watertight, high-powered searchlight, suitable for searching for a person overboard at night and for collision avoidance with spare batteries and bulbs, and a watertight flashlight with spare batteries and bulb First Aid Manual and First Aid Kit A suitable First Aid Manual shall be provided	** ** **
	and/or deck where it can best be seen Each yacht is recommended to show on each underwater appendage an area of highly-visible colour Soft Wood Plugs Soft wood plugs, tapered and of the appropriate size, shall be attached or stowed adjacent to the appropriate fitting for every through-hull opening. Jackstays, Clipping Points and Static Safety Lines The following shall be provided: Jackstays: Shall be provided- 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: 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; which, when made from stainless steel wire shall be uncoated and used without any sleeving; 20kN (2,040 kgf or 4,500 lbf) min breaking strain webbing is recommended; Clipping Points: shall be provided- 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:- which, together with jackstays and static safety lines shall enable a crew member- to clip on before coming on deck and unclip after going below; 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. The provision of clipping points shall enable two-thirds of the crew to be simultaneously clipped on without depending on jackstays Warning - U-bolts as clipping points - see OSR 5.02.1(a) Fire Extinguishers, at least two, readily accessible in suitable and different parts of the yacht Fire Extinguishers, at least two, of minimum 2kgs each of dry powder or equivalent A fire blanket adjacent to every cooking device with an open flame Anchor(s) An anchor or anchors shall be carried according to the table below: The following anchors shall be provided

c)	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 www.msos.org.uk	**
4.08.2	A First Aid Kit shall be provided	**
4.08.3	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.	**
4.09	Foghorn A foghorn shall be provided	**
4.10	Radar Reflector	
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 octahedral it must have a documented RCS (radar cross-section) of not less than 10 m2 at 0° elevation and be capable of performance around 360° in azimuth.	**
_	The minimum effective height above water is 4.0 m (13 ft).	**
<i>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	**
4.10.2	The most effective radar response from a yacht may be provided by an RTE	MoMu1,2,3,4
	(Radar Target Enhancer) which may be on board in addition to the required passive reflector. An RTE should conform to ISO 8729-2:2009. An RTE is strongly recommended.	
<i>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.	**
4.10.3	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.	
4.10.4	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.	
4.11 4.11.1	Navigation Equipment Charts	
	Navigational charts (not solely electronic), light list and chart plotting equipment shall be provided	**
4.11.2	Reserve Navigation System	44.44.0.4
	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	MoMu0,1
	www.navcen.uscg.gov/archive/2001/Oct/FinalReport-v4.6.pdf)	
4.12	Safety Equipment Location Chart	
	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.	**
4.13	Echo Sounder or Lead Line	
4.13.1	An echo sounder or lead line shall be provided	MoMu1,2,3,4
4.14	Speedometer or Distance Measuring Instrument (log)	
	A speedometer or distance measuring instrument (log) shall be provided	MoMu0,1,2,3
4.15	Emergency Steering	
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
4.16	Tools and Spare Parts	
	Tools and spare parts, including effective means to quickly disconnect or sever the standing rigging from the hull shall be provided.	**
4.17	Yacht's name Yacht's name shall be on miscellaneous buoyant equipment, such as lifejackets, cushions, lifebuoys, lifeslings, grab bags etc.	**
4.18	Marine grade retro-reflective material Marine grade retro-reflective material shall be fitted to lifebuoys, lifeslings, liferafts and lifejackets. See OSRs 5.04, 5.08.	**
4.19	EPIRBs	
4.19.1	A 406 MHz EPIRB shall be provided	MoMu1,2
<i>b)</i>	It is recommended that a 406 MHz EPIRB should include an internal GPS, and also a 121.5MHz transmitter for local homing.	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
<i>e)</i>	EPIRBs should be tested in accordance with manufacturer's instructions when first commissioned and then at least annually.	MoMu0,1,2
f)	A list of registration numbers of 406 EPIRBs should be notified to event organizers and kept available for immediate use.	MoMu0,1,2
g)	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.	MoMu0,1,2
h)	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 bearing by an board D/F systems and for local bearing by	MoMu0,1,2
	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.	
4 20	SAR units. Type "E" EPIRBs are no longer supported and should be replaced immediately.	MoMuO 1 2
4.20 4.20.1	SAR units. Type "E" EPIRBs are no longer supported and should be replaced immediately. Liferafts	MoMu0,1,2
4.20 4.20.1 4.20.2	SAR units. Type "E" EPIRBs are no longer supported and should be replaced immediately. Liferafts Liferaft Construction and Packed Equipment Liferaft(s) shall be provided capable of carrying the whole crew when each	MoMu0,1,2 MoMu1,2
4.20.1	SAR units. Type "E" EPIRBs are no longer supported and should be replaced immediately. Liferafts Liferaft Construction and Packed Equipment	, ,
4.20.1 4.20.2	SAR units. Type "E" EPIRBs are no longer supported and should be replaced immediately. Liferafts Liferaft Construction and Packed Equipment Liferaft(s) shall be provided capable of carrying the whole crew when each liferaft shall comply with either:- 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	MoMu1,2
4.20.1 4.20.2 a)	SAR units. Type "E" EPIRBs are no longer supported and should be replaced immediately. Liferafts Liferaft Construction and Packed Equipment Liferaft(s) shall be provided capable of carrying the whole crew when each liferaft shall comply with either:- 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 or for liferafts manufactured prior to January 2003, OSR Appendix A part I (ORC),	MoMu1,2 Extract File MoMu1,2
4.20.1 4.20.2 a)	SAR units. Type "E" EPIRBs are no longer supported and should be replaced immediately. Liferafts Liferaft Construction and Packed Equipment Liferaft(s) shall be provided capable of carrying the whole crew when each liferaft shall comply with either:- 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 or for liferafts manufactured prior to January 2003, OSR Appendix A part I (ORC), or OSR Appendix A part II (ISAF) when, unless otherwise specified by a race	MoMu1,2 Extract File MoMu1,2 MoMu1,2
4.20.1 4.20.2 a) b) c) d)	SAR units. Type "E" EPIRBs are no longer supported and should be replaced immediately. Liferafts Liferaft Construction and Packed Equipment Liferaft(s) shall be provided capable of carrying the whole crew when each liferaft shall comply with either:- 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 or for liferafts manufactured prior to January 2003, OSR Appendix A part I (ORC), or OSR Appendix A part II (ISAF) when, unless otherwise specified by a race organizer, the floor shall include thermal insulation, or ISO 9650 Part I Type I Group A (ISO) when each liferaft shall contain at least a Pack 2 (<24h) and-shall have a semi-rigid boarding ramp, and	MoMu1,2 Extract File MoMu1,2 MoMu1,2 MoMu1,2 MoMu1,2 MoMu1,2
4.20.1 4.20.2 a) b) c) d) i	SAR units. Type "E" EPIRBs are no longer supported and should be replaced immediately. Liferafts Liferaft Construction and Packed Equipment Liferaft(s) shall be provided capable of carrying the whole crew when each liferaft shall comply with either:- 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 or for liferafts manufactured prior to January 2003, OSR Appendix A part I (ORC), or OSR Appendix A part II (ISAF) when, unless otherwise specified by a race organizer, the floor shall include thermal insulation, or ISO 9650 Part I Type I Group A (ISO) when each liferaft shall contain at least a Pack 2 (<24h) and-shall have a semi-rigid boarding ramp, and shall be so arranged that any high-pressure hose shall not impede the boarding process, and	MoMu1,2 Extract File MoMu1,2 MoMu1,2 MoMu1,2 MoMu1,2 MoMu1,2 MoMu1,2 MoMu1,2
4.20.1 4.20.2 a) b) c) d)	SAR units. Type "E" EPIRBs are no longer supported and should be replaced immediately. Liferafts Liferaft Construction and Packed Equipment Liferaft(s) shall be provided capable of carrying the whole crew when each liferaft shall comply with either:- 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 or for liferafts manufactured prior to January 2003, OSR Appendix A part I (ORC), or OSR Appendix A part II (ISAF) when, unless otherwise specified by a race organizer, the floor shall include thermal insulation, or ISO 9650 Part I Type I Group A (ISO) when each liferaft shall contain at least a Pack 2 (<24h) and-shall have a semi-rigid boarding ramp, and shall be so arranged that any high-pressure hose shall not impede the boarding process, and shall have a topping-up means provided for any inflatable boarding ramp, and when the liferaft is designed with a single ballast pocket this shall be accepted provided the liferaft otherwise complies with ISO 9650 and meets a suitable test of ballast pocket strength devised by the manufacturer and	MoMu1,2 Extract File MoMu1,2 MoMu1,2 MoMu1,2 MoMu1,2 MoMu1,2 MoMu1,2 MoMu1,2 MoMu1,2 MoMu1,2
4.20.1 4.20.2 a) b) c) d) ii iii iii	Liferafts Liferaft Construction and Packed Equipment Liferaft(s) shall be provided capable of carrying the whole crew when each liferaft shall comply with either:- 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 or for liferafts manufactured prior to January 2003, OSR Appendix A part I (ORC), or OSR Appendix A part II (ISAF) when, unless otherwise specified by a race organizer, the floor shall include thermal insulation, or ISO 9650 Part I Type I Group A (ISO) when each liferaft shall contain at least a Pack 2 (<24h) and-shall have a semi-rigid boarding ramp, and shall be so arranged that any high-pressure hose shall not impede the boarding process, and shall have a topping-up means provided for any inflatable boarding ramp, and when the liferaft is designed with a single ballast pocket this shall be accepted provided the liferaft otherwise complies with ISO 9650 and meets a suitable test of ballast pocket strength devised by the manufacturer and compliance with OSR 4.20.2 (d) i-iv shall be indicated on the liferaft certificate.	MoMu1,2 Extract File MoMu1,2 MoMu1,2 MoMu1,2 MoMu1,2 MoMu1,2 MoMu1,2 MoMu1,2 MoMu1,2 MoMu1,2
4.20.1 4.20.2 a) b) c) d) i ii iii iv	Liferafts Liferaft Construction and Packed Equipment Liferaft(s) shall be provided capable of carrying the whole crew when each liferaft shall comply with either:- 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 or for liferafts manufactured prior to January 2003, OSR Appendix A part I (ORC), or OSR Appendix A part II (ISAF) when, unless otherwise specified by a race organizer, the floor shall include thermal insulation, or ISO 9650 Part I Type I Group A (ISO) when each liferaft shall contain at least a Pack 2 (<24h) and-shall have a semi-rigid boarding ramp, and shall be so arranged that any high-pressure hose shall not impede the boarding process, and shall have a topping-up means provided for any inflatable boarding ramp, and when the liferaft is designed with a single ballast pocket this shall be accepted provided the liferaft otherwise complies with ISO 9650 and meets a suitable test of ballast pocket strength devised by the manufacturer and compliance with OSR 4.20.2 (d) i-iv shall be indicated on the liferaft certificate. Liferaft Packing and Stowage	MoMu1,2
4.20.1 4.20.2 a) b) c) d) ii iii iv	Liferafts Liferaft Construction and Packed Equipment Liferaft(s) shall be provided capable of carrying the whole crew when each liferaft shall comply with either:- 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 or for liferafts manufactured prior to January 2003, OSR Appendix A part I (ORC), or OSR Appendix A part II (ISAF) when, unless otherwise specified by a race organizer, the floor shall include thermal insulation, or ISO 9650 Part I Type I Group A (ISO) when each liferaft shall contain at least a Pack 2 (<24h) and-shall have a semi-rigid boarding ramp, and shall be so arranged that any high-pressure hose shall not impede the boarding process, and shall have a topping-up means provided for any inflatable boarding ramp, and when the liferaft is designed with a single ballast pocket this shall be accepted provided the liferaft otherwise complies with ISO 9650 and meets a suitable test of ballast pocket strength devised by the manufacturer and compliance with OSR 4.20.2 (d) i-iv shall be indicated on the liferaft certificate. Liferaft Packing and Stowage A Liferaft shall be either:-	MoMu1,2 MoMu1,2
4.20.1 4.20.2 a) b) c) d) ii iii iii	Liferafts Liferaft Construction and Packed Equipment Liferaft(s) shall be provided capable of carrying the whole crew when each liferaft shall comply with either:- 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 or for liferafts manufactured prior to January 2003, OSR Appendix A part I (ORC), or OSR Appendix A part II (ISAF) when, unless otherwise specified by a race organizer, the floor shall include thermal insulation, or ISO 9650 Part I Type I Group A (ISO) when each liferaft shall contain at least a Pack 2 (<24h) and-shall have a semi-rigid boarding ramp, and shall be so arranged that any high-pressure hose shall not impede the boarding process, and shall have a topping-up means provided for any inflatable boarding ramp, and when the liferaft is designed with a single ballast pocket this shall be accepted provided the liferaft otherwise complies with ISO 9650 and meets a suitable test of ballast pocket strength devised by the manufacturer and compliance with OSR 4.20.2 (d) i-iv shall be indicated on the liferaft certificate. Liferaft Packing and Stowage	MoMu1,2

	into or adjacent to the cockpit or working deck, or through a transom, provided	
i	that:- each compartment is watertight or self-draining (self-draining compartments	MoMu0,1,2
•	will be counted as part of the cockpit volume except when entirely above	1101100,1,2
	working deck level or when draining independently overboard from a transom	
	stowage - see OSR 3.09) and-	
ii	the cover of each compartment is capable of being easily opened under water	MoMu0,1,2
iii	pressure, and- the compartment is designed and built to allow a liferaft to be removed and	MoMu0,1,2
111	launched quickly and easily, or-	1401400,1,2
iv	in a yacht with age or series date before June 2001, a liferaft may be packed in	MoMu1,2
	a valise not exceeding 40kg securely stowed below deck adjacent to a	•
	companionway.	
c)	The end of each liferaft painter should be permanently made fast to a strong	MoMu0,1,2
4.20.4	point on board the yacht. Liferaft Launching	MoMu0,1,2
a)	Each raft shall be capable of being got to the lifelines or launched within 15	MoMu0,1,2
- /	seconds.	, ,
<i>b)</i>	Each liferaft of more than 40kg weight should be stowed in such a way that	MoMu0,1,2
4 20 5	the liferaft can be dragged or slid into the sea without significant lifting	M-M-0 4 2
4.20.5	Liferaft Servicing and Inspection IMPORTANT NOTICE Recent evidence has shown that packaged liferafts are	MoMu0,1,2 MoMu0,1,2
	vulnerable to serious damage when dropped (e.g. from a boat onto a marina	1401440,1,2
	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.	
a)	Certificates or copies, of servicing and/or inspection shall be kept on board the	MoMu0,1,2
	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.	
b)	A liferaft built to OSR Appendix A part I ("ORC") packed in a rigid container or	MoMu0,1,2
	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.	
c)	A liferaft built to OSR Appendix A part II ("ISAF") packed in a rigid container or	MoMu1,2
-,	canister shall either be serviced annually or may, when the manufacturer so	
	specifies, have its first service no longer than 3 years after commissioning and	
	its second service no longer than 2 years after the first. Subsequent services	
d)	shall be at intervals of not more than 12 months. A liferaft built to ISO 9650 Part 1 Type Group A, packed in a rigid container or	MoMu1,2
d)	canister shall be serviced in accordance with the manufacturer's instructions	1401401,2
	but NOT less frequently than every three years	
e)	A liferaft built to ISO 9650 Part 1 Type Group A packed in a valise shall be	MoMu1,2
	inspected annually by an approved manufacturer's agent and serviced in	
	accordance with the manufacturer's instructions but NOT less frequently than	
f)	every three years. Liferaft servicing certificates shall state the specification that the liferaft was	MoMu1,2
1)	built to. See OSR 4.20.2	1/101/101/2
4.21.2	Grab Bags to Accompany Liferafts	
a)	A yacht is recommended to have for each liferaft, a grab bag with the following	MoMu0,1,2
	minimum contents. A grab bag should have inherent flotation, at least 0.1	
	m^2 area of fluorescent orange colour on the outside, should be marked with	

	the name of the yacht, and should	ıld have a lanyard and clip.			
<i>b)</i>	Note: it is not intended to duplic	ate in a grab bag items requ	iired by other	MoMu	0,1,2
	OSRs to be on board the yacht -	these recommendations con	ver only the		
	stowage of those items				
4.21.3	Grab Bag Recommended Con	itents			
a)	2 red parachute and 2 red hand (red flares compliant with SOLAS		emical light sticks	MoMu	1,2
b)	watertight hand-held EPFS (Elect	tronic Position-Fixing Systen	n) (eg GPS) in at	MoMu	1,2
c)	least one of the grab bags carrie SART (Search and Rescue Trans		a arah haas	МоМи	11 2
C)	carried by a yacht	•		110110	1,2
d)	a combined 406MHz/121.5MHz one of the grab bags carried by		4.19.1) in at least	МоМи	1,2
<i>e)</i>	water in re-sealable containers of for water	r a hand-operated desalinat	or plus containers	MoMu	1,2
f)	a watertight hand-held marine V	HF transceiver plus a spare	set of batteries	MoMu	0,1,2
g)	a watertight flashlight with spare			MoMu	
h)	dry suits or thermal protective an				, ,
i)	second sea anchor for the liferat		has already a	MoMu	0,1,2
,	spare sea anchor in its pack) (re and >30m line diameter >9.5 m	commended standard ISO 1	•		, ,
<i>(</i>)				MaMi	012
<i>j)</i>	two safety tin openers (if approp first-aid kit including at least 2 to	,	ings should be	MoMu MoMu	
<i>k)</i>	capable of being effectively used		_	MOM	0,1,2
	clearly marked and re-sealable.	THE THE	-alu Kit Si loulu De		
/)	•			MaMi	n 1 2
<i>()</i>	signalling mirror	I par parcan recommended t	for Cat Zara)	MoMu	
<i>m)</i>	high-energy food (min 10 000k)	•	-	MoMu	
n)	nylon string, polythene bags, sea recommended)	asickriess tablets (IIIIII o per	person	MoMu	0,1,2
0)	watertight hand-held aviation VF	HF transceiver (if race area v	varrants)	MoMu	0,1,2
4.22	Lifebuoys	·	•		
4.22.1	The following shall be provided vinstant use:	vithin reach of the helmsma	n and ready for	**	
a)	a lifebuoy with a self-igniting ligh		g with a self-	**	
	igniting light and without a drogu				
b)	In addition to a) above, one lifeb	ouoy within reach of the helr	nsman and ready	MoMu	0,1,2
	for instant use, equipped with:				
i 	a whistle, a drogue, a self-ignitin			MoMu	
ii	a pole and flag. The pole shall be	•	<u>•</u>	MoMu	0,1,2
	of being fully automatically exter		-		
	seconds. It shall be attached to t		_		
	and is to be of a length and so b	allasted that the flag will fly	at least 1.8 m (6		
4 22 2	ft) off the water.	/au_ :faalings au_anuiad	t land one of	MaN4.	012
4.22.2	When at least two lifebuoys (and			MoMu	0,1,2
4 22 2	them shall depend entirely on pe			**	
4.22.3	Each inflatable lifebuoy and any	`	_	-11-	
	by compressed gas) shall be test		in accordance		
4 22 4	with its manufacturer's instructio		-ra raflactiva	**	
4.22.4	Each lifebuoy or lifesling shall be	ntted with marine grade rei	ro-renective	77	
4 22 E	material (4.18).		ati andrius in the	**	
4.22.5	It is recommended that the color	ur or eacri liteduoy de a safé	rly colour in the	$\tau \tau$	
4 22	yellow-red range.	_			
4.23	Pyrotechnic and Light Signal		CA Code Charter	**	
4.23.1	Pyrotechnic signals shall be prov	_	-	ጥጥ	
	III Visual Signals and not older t		e (11 atry) of IT NO		
	expiry date stamped , not older t		orongo emples I CA	TTT	***
	red parachute flares LSA III	red hand flares LSA III	orange smoke LSA	111	race
	3.1	3.2	3.3		category
	6	4	2		MoMu0,1

	4	4	2	MoMu2,3
	2	4 4	2 2	Mo4 Mu4
	TABLE 13	,	2	Tidi
4.24	Heaving Line			**
a)	accessible to cockpit		, -	**
b)		type is recommended - see	Appendix D	**
4.25	readily accessible fro	e, sheathed and securely resom the deck or a cockpit.	trained shall be provided	**
4.26	Storm & Heavy Wo	eather Sails		
4.26.1	Design		alanua aanault thair	**
a)	designer and sailn and heavy weather propulsion for the part of the racing areas are likely to other characterist	yacht in severe weather inventory. The areas belo suit some yachts accord	effective size for storm nese sails is to provide safe -they are not intended as ow are maxima. Smaller	2
4.26.2	High Visibility			
a)	pink, orange or yello the area of the sail (and also that a rotat on each side. A storr	ow) or have a highly-visible output oup to a maximum diameter	a highly-visible coloured patch ary 2014 shall have the	
<i>b)</i>		mended that the storm trysal	il should either be made of or	**
4.26.3	Materials			
a)	storm jib but spectra	a/dyneema and similar mate	•	
<i>b)</i> 4.26.4		and similar fibres other than	er jib does not contain aromat n spectra/dyneema.	
a)	_	n deck for each storm and h	eavy-weather sail:	**
b)	for each storm or he independent of any I means of attachmen attachment permane Storm and heavy we	eavy-weather jib, a means to luff-groove device. A heavy v it readily available. A storm j ently attached; eather jib areas shall be calco x (luff perpendicular + 2 x h	attach the luff to the stay, weather jib shall have the jib shall have the means of	**
c)	a storm trysail which boom with trysail are foot length (E). The x shortest distance be neither headboard no yacht with a rotating	n shall be capable of being slea not greater than 17.5% n storm trysail area shall be m between tack point and leech or battens, however a storm	neasured as (0.5 x leech lengt n). The storm trysail shall have n trysail is not required in a uately substitute for a trysail.	
d)	the storm trysail as r number and letter(s)	required by OSR 4.26.4 (c) s) shall be placed on both sid as substitute for a trysail) in	•	Extract File Only MoMu 0,1,2
e)	a storm jib of area n	ot greater than 5% height cength 65% height of the fore	of the foretriangle squared,	MoMu0,1,2
f)			yacht with no forestay) of are	a **
• /	not greater than 13.	5% height of the foretriangle	e squared;	

be capable of being set while the mainsail is furled.

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 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.

MoMu0,1,2

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

**

**

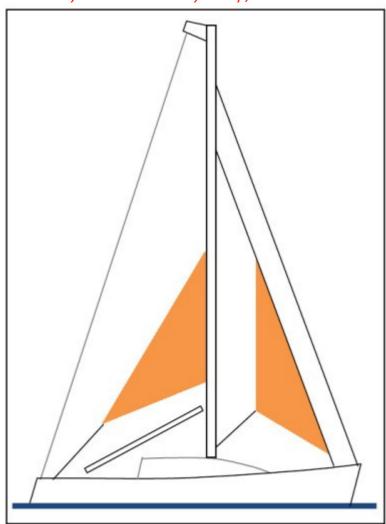


Figure 3 **Drogue, Sea Anchor** 4.27 MoMu0,1 4.27.1 MoMu1 A droque for deployment over the stern, or alternatively a sea anchor or parachute anchor for deployment over the bow, complete with all gear needed to rig and deploy the sea anchor or drogue, is strongly recommended to withstand long periods in rough conditions (see Appendix F). 4.28 **Man Overboard Alarm** MoMu0 4.28.2 A yacht is recommended to be equipped with an EPFS (e.g. GPS) capable of MoMu 1, 2 immediately recording a man overboard position from each helm station A yacht shall be equipped with an EPFS (e.g. GPS) capable of immediately 4.28.3 MoMu 1, 2 recording a man overboard position from each helm station (From January 2012) **SECTION 5 - PERSONAL EQUIPMENT** 5.01 Lifejacket ** 5.01.1 Each crew member shall have a lifejacket as follows:-**

In accordance with ISO 12402 – 3 (Level 150) or equivalent, including EN 396

Lifejackets manufactured after 1 January 2012 shall be in accordance with ISO

a)

or UL 1180

	12402–3 (Level 150) and shall be fitted with:- • an emergency light in accordance with either ISO 12402-8 or SOLAS LSA code 2.2.3.	
	 a sprayhood in accordance with ISO 12402-8. 	
	• 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).	
	If of an inflatable type either	
	(a) automatic, manual and oral inflation or	
	(b) manual and oral inflation	
	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.	
	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.	
b)	Wearing a Level 275 lifejacket may hamper entry into liferafts. fitted with either a crotch strap(s) / thigh straps or a full safety harness in accordance with ISO 12401,	**
	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.	
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, It is strongly recommended that a lifejacket has:	
j)	a splashguard / sprayhood See ISO 12402 – 8,	MoMu1,2,3,4
<i>k)</i>	a PLB unit (as with other types of EPIRB, should be properly registered with the appropriate authority)	MoMu1,2,3,4
<i>l)</i>	if of a gas inflatable type, a spare cylinder and if appropriate a spare activation head	MoMu1,2,3,4
5.01.4	The person in charge shall personally check each lifejacket at least once	**
	annually.	
5.02	Safety Harness and Safety Lines (Tethers)	MoMu0,1,2,3
5.02.1	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.	MoMu0,1,2,3
	Harnesses and safety lines manufactured prior to Jan 2010 shall comply with either ISO 12401 or EN 1095.	
a)	Harnesses and safety lines manufactured prior to Jan 2001 are not permitted. Warning it is possible for a plain snaphook to disengage from a U bolt	MoMu0,1,2,3
a)	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.	MOMUU,1,2,3
5.02.2	At least 30% of the crew shall each, in addition to the above be provided with	MoMu0,1,2,3
510212	either:-	1101140717273
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
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	MoMu0,1,2,3
E 02 4	overloaded shall be replaced as a matter of urgency.	MaMan 1 2 2
5.02.4 <i>5.02.5</i>	A crew member's lifejacket and harness shall be compatible	MoMu0,1,2,3
3.02.3 a)	It is strongly recommended that:- static safety lines should be securely fastened at work stations;	MoMu0,1,2,3 MoMu0,1,2,3
b)	A harness should be fitted with a crotch strap or thigh straps.	MoMu0,1,2,3

 to draw attention to wear and damage, stitching on harness and safety should be of a colour contrasting strongly with the surrounding material snaphooks should be of a type which will not self-release from a U-bolt OSR 5.02.1(a)) and which can be easily released under load (crew memare reminded that a personal knife may free them from a safety line in emergency); e) a crew member before a race should adjust a harness to fit then retain harness for the duration of the race. 5.02.6 Warning - a safety line and safety harness are not designed to tow a petthe water and it is important that the shortest safety line length possible used with a harness to minimise or eliminate the risk of a person's torse becoming immersed in water outside the boat, especially when working foredeck. Im safety lines or the midpoint snaphook on a 2m line should used for this purpose. The diligent use of a properly adjusted safety has and the shortest safety line practicable is regarded as by far the most every of preventing man overboard incidents. 	that MoMu0,1,2,3 erson in ** le be of on the dibe
OSR 5.02.1(a)) and which can be easily released under load (crew men are reminded that a personal knife may free them from a safety line in emergency); e) a crew member before a race should adjust a harness to fit then retain harness for the duration of the race. 5.02.6 Warning - a safety line and safety harness are not designed to tow a per the water and it is important that the shortest safety line length possible used with a harness to minimise or eliminate the risk of a person's torse becoming immersed in water outside the boat, especially when working foredeck. 1m safety lines or the midpoint snaphook on a 2m line should used for this purpose. The diligent use of a properly adjusted safety has and the shortest safety line practicable is regarded as by far the most elements.	that MoMu0,1,2,3 erson in ** le be o o on the d be
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vvav ui bieveiiliilu illali uvelbualu liitluelits.	
5.04 Foul Weather Suits	
b) it is recommended that a foul weather suit should be fitted with marine retro-reflective material, and should have high-visibility colours on its up parts and sleeve cuffs. See OSR 4.18	
5.07 Survival Equipment	MoMu0
d) 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	ΜοΜυθ,1,2
e) All PLB units, as with other types of EPIRB, should be properly registere the appropriate authority SECTION 6 - TRAINING	
6.01 At least 30% but not fewer than two members of a crew, include	ding MoMu1,2
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 ses	ssions
6.01.3 It is strongly recommended that all crew members should undertake tra as in OSR 6.01 at least once every five years	
6.01.4 Except as otherwise provided in the Notice of Race, an in-date certificat gained at an ISAF Approved Offshore Personal Survival Training course	
accepted by a race organizing authority as evidence of compliance with Regulation 6.01. See Appendix G - Model Training Course, for further d	Special
Regulation 6.01. See Appendix G - Model Training Course, for further d 6.02 Training Topics for Theoretical Sessions	Special letails.
Regulation 6.01. See Appendix G - Model Training Course, for further d 6.02 Training Topics for Theoretical Sessions 6.02.1 care and maintenance of safety equipment	Special letails. MoMu0,1,2
Regulation 6.01. See Appendix G - Model Training Course, for further domain to the foliation of the foliatio	Special letails. MoMu0,1,2 MoMu0,1,2
Regulation 6.01. See Appendix G - Model Training Course, for further d 6.02 Training Topics for Theoretical Sessions 6.02.1 care and maintenance of safety equipment 6.02.2 storm sails 6.02.3 damage control and repair	Special letails. MoMu0,1,2 MoMu0,1,2 MoMu0,1,2
Regulation 6.01. See Appendix G - Model Training Course, for further d 6.02 Training Topics for Theoretical Sessions 6.02.1 care and maintenance of safety equipment 6.02.2 storm sails 6.02.3 damage control and repair 6.02.4 heavy weather - crew routines, boat handling, drogues	Special letails. MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2
Regulation 6.01. See Appendix G - Model Training Course, for further domain to the following state of the followin	Special letails. MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2
Regulation 6.01. See Appendix G - Model Training Course, for further d 6.02 Training Topics for Theoretical Sessions 6.02.1 care and maintenance of safety equipment 6.02.2 storm sails 6.02.3 damage control and repair 6.02.4 heavy weather - crew routines, boat handling, drogues 6.02.5 man overboard prevention and recovery 6.02.6 giving assistance to other craft	Special letails. MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2
Regulation 6.01. See Appendix G - Model Training Course, for further domain to the following storm of the following storm sails damage control and repair heavy weather - crew routines, boat handling, drogues man overboard prevention and recovery giving assistance to other craft hypothermia	Special letails. MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2
Regulation 6.01. See Appendix G - Model Training Course, for further december 1.02.1 Care and maintenance of safety equipment storm sails damage control and repair 6.02.4 heavy weather - crew routines, boat handling, drogues man overboard prevention and recovery 6.02.6 giving assistance to other craft 6.02.7 hypothermia SAR organisation and methods	Special letails. MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2
Regulation 6.01. See Appendix G - Model Training Course, for further of Training Topics for Theoretical Sessions 6.02.1 care and maintenance of safety equipment 6.02.2 storm sails 6.02.3 damage control and repair 6.02.4 heavy weather - crew routines, boat handling, drogues 6.02.5 man overboard prevention and recovery 6.02.6 giving assistance to other craft 6.02.7 hypothermia 6.02.8 SAR organisation and methods 6.02.9 weather forecasting	Special letails. MoMu0,1,2
Regulation 6.01. See Appendix G - Model Training Course, for further december 1.02.1 Care and maintenance of safety equipment storm sails damage control and repair 6.02.4 heavy weather - crew routines, boat handling, drogues man overboard prevention and recovery 6.02.6 giving assistance to other craft 6.02.7 hypothermia SAR organisation and methods	Special letails. MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2 MoMu0,1,2
Regulation 6.01. See Appendix G - Model Training Course, for further of Training Topics for Theoretical Sessions 6.02.1 care and maintenance of safety equipment 6.02.2 storm sails 6.02.3 damage control and repair 6.02.4 heavy weather - crew routines, boat handling, drogues 6.02.5 man overboard prevention and recovery 6.02.6 giving assistance to other craft 6.02.7 hypothermia 6.02.8 SAR organisation and methods 6.02.9 weather forecasting 7 Training Topics for Practical, Hands-On Sessions 6.03.1 liferafts and lifejackets	Special letails. MoMu0,1,2
Regulation 6.01. See Appendix G - Model Training Course, for further of Training Topics for Theoretical Sessions 6.02.1 care and maintenance of safety equipment 6.02.2 storm sails 6.02.3 damage control and repair 6.02.4 heavy weather - crew routines, boat handling, drogues 6.02.5 man overboard prevention and recovery 6.02.6 giving assistance to other craft 6.02.7 hypothermia 6.02.8 SAR organisation and methods 6.02.9 weather forecasting Training Topics for Practical, Hands-On Sessions	Special letails. MoMu0,1,2
Regulation 6.01. See Appendix G - Model Training Course, for further of Training Topics for Theoretical Sessions 6.02.1 care and maintenance of safety equipment 6.02.2 storm sails 6.02.3 damage control and repair 6.02.4 heavy weather - crew routines, boat handling, drogues 6.02.5 man overboard prevention and recovery 6.02.6 giving assistance to other craft 6.02.7 hypothermia 6.02.8 SAR organisation and methods 6.02.9 weather forecasting Training Topics for Practical, Hands-On Sessions 6.03.1 liferafts and lifejackets	Special letails. MoMu0,1,2
Regulation 6.01. See Appendix G - Model Training Course, for further of G.02.1 care and maintenance of safety equipment storm sails damage control and repair heavy weather - crew routines, boat handling, drogues man overboard prevention and recovery giving assistance to other craft hypothermia SAR organisation and methods weather forecasting Training Topics for Practical, Hands-On Sessions liferafts and lifejackets fire precautions and use of fire extinguishers communications equipment (VHF, GMDSS, satcomms, etc.) pyrotechnics and EPIRBs	Special letails. MoMu0,1,2
Regulation 6.01. See Appendix G - Model Training Course, for further of G.02. Training Topics for Theoretical Sessions 6.02.1 care and maintenance of safety equipment 6.02.2 storm sails 6.02.3 damage control and repair 6.02.4 heavy weather - crew routines, boat handling, drogues 6.02.5 man overboard prevention and recovery 6.02.6 giving assistance to other craft 6.02.7 hypothermia 6.02.8 SAR organisation and methods 6.02.9 weather forecasting 6.03 Training Topics for Practical, Hands-On Sessions 6.03.1 liferafts and lifejackets 6.03.2 fire precautions and use of fire extinguishers 6.03.3 communications equipment (VHF, GMDSS, satcomms, etc.)	Special letails. MoMu0,1,2
Regulation 6.01. See Appendix G - Model Training Course, for further of G.02.1 care and maintenance of safety equipment storm sails damage control and repair heavy weather - crew routines, boat handling, drogues man overboard prevention and recovery giving assistance to other craft hypothermia SAR organisation and methods weather forecasting Training Topics for Practical, Hands-On Sessions liferafts and lifejackets fire precautions and use of fire extinguishers communications equipment (VHF, GMDSS, satcomms, etc.) pyrotechnics and EPIRBs	Special letails. MoMu0,1,2
Regulation 6.01. See Appendix G - Model Training Course, for further of Training Topics for Theoretical Sessions 6.02.1 care and maintenance of safety equipment 6.02.2 storm sails 6.02.3 damage control and repair 6.02.4 heavy weather - crew routines, boat handling, drogues 6.02.5 man overboard prevention and recovery 6.02.6 giving assistance to other craft 6.02.7 hypothermia 6.02.8 SAR organisation and methods 6.02.9 weather forecasting 6.03 Training Topics for Practical, Hands-On Sessions 6.03.1 liferafts and lifejackets 6.03.2 fire precautions and use of fire extinguishers 6.03.3 communications equipment (VHF, GMDSS, satcomms, etc.) 6.03.4 pyrotechnics and EPIRBs 6.04 Routine Training On-Board 6.04.1 It is recommended that crews should practice safety routines at reasonal	Special letails. MoMu0,1,2
Regulation 6.01. See Appendix G - Model Training Course, for further of G.02. Training Topics for Theoretical Sessions 6.02.1 care and maintenance of safety equipment 6.02.2 storm sails 6.02.3 damage control and repair 6.02.4 heavy weather - crew routines, boat handling, drogues 6.02.5 man overboard prevention and recovery 6.02.6 giving assistance to other craft 6.02.7 hypothermia 6.02.8 SAR organisation and methods 6.02.9 weather forecasting 6.03 Training Topics for Practical, Hands-On Sessions 6.03.1 liferafts and lifejackets 6.03.2 fire precautions and use of fire extinguishers 6.03.3 communications equipment (VHF, GMDSS, satcomms, etc.) 6.03.4 pyrotechnics and EPIRBs 6.04 Routine Training On-Board 6.04.1 It is recommended that crews should practice safety routines at reasonal intervals including the drill for man-overboard recovery	Special letails. MoMu0,1,2 MoMu0,1,
Regulation 6.01. See Appendix G - Model Training Course, for further of the course of	Special letails. MoMu0,1,2 MoMu0,1,

recognised courses

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.

**

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 K - Moveable and Variable Ballast

Appendix M - Hull Construction Standards (Scantlings)

Appendix N - Model First Aid Training Course

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

(Monor	iulis pre-2010 and Multinulis)				
m1	A monohull with the earliest of Age or shall comply with OSR 3.03.1, 3.03.2	MoMu0,1,2			
	multihull shall comply with this appendix.				
	TABLE 2				
	LOA	earliest of age or series date	MoMu0,1,2 race category		
	all		MoMu0,1		
		January 1986 and after	•		
	12m (39.4 feet) and over	January 1987 and after	MoMu2		
_	under 12m (39.4 feet)	January 1988 and after	MoMu2		
m2	•	all have been designed built, maintained,	MoMu0,1,2		
	modified and repaired in accordance v				
a)	the EC Recreational Craft Directive for	Category A (having obtained the CE	MoMu0,1,2		
	mark), or				
b)	the ABS Guide for Building and Classin	ng Offshore Yachts in which case the	MoMu0,1,2		
•	yacht shall have on board either a cert				
	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,	The yadrie in adderdance than the 7.55			
c)	ISO 12215 Category A, with written st	atements signed by the designer and	MoMu0,1,2		
C)	builder which confirm that they have r	1101100,1,2			
	•	espectively designed and built the yacht			
	in accordance with the ISO standard,				

in accordance with the ISO standard,
d) except that a race organizer or class rules may accept when that described in MoMu0,1,2
(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).

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

m3