ISAF OFFSHORE SPECIAL REGULATIONS

JANUARY 2014 - DECEMBER 2015 www.sailing.org/specialregs



Extract for Race Category 0 Monohulls

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Version 1_2 - 2014

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 2014 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 ** 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.

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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
	Mononuli	towards the centre-line.
	Moveable Ballast	Lead or other material including water which has no practical
	MOVEDUR Dallast	
		function in the boat other than to increase weight and/or to
		influence stability and/or trim and which may be moved
	000	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	Means the item is effectively built-in by e.g. bolting, welding,
	Installed	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	Held strongly in place by a method (e.g. rope lashings, wing-nuts)
	Fastened	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
	1	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.
-	The words "shall" a	nd "must" are mandatory, and "should" and "may" are **
	permissive.	
-	The word "vacht" sł	hall be taken as fully interchangeable with the word "boat". **

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

1.03.2

Trans-oceanic races, including races which pass through areas in which air or MoMu,0 sea temperatures are likely to be less than 5 degrees Celsius other than

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2.02	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. 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	**
5.02.1	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	**
5.02.2	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	ጥጥ
	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)	MoMu0,1,2
3.03.1		Mo0,1,2
a)	A yacht of less than 24m in hull length (measured in accordance with ISO	Mo0,1,2

	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.	
b)	• 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	Mo0,1,2
	 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 .	
3.03.2 a)	A yacht of less than 24m in hull length (measured in accordance with ISO	Mo0,1,2 Mo0,1,2
u)	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	1100,1,2
	 • on board a certificate of building plan review for the repair or modification 	
	from a notified body 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 requirements of ISO 12215 Category A *	
b)	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, 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	Mo0,1,2
	 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 	
3.03.3	Classification Society. In cases when a builder no longer exists a race organizer or class rules may	Mo0,1,2
	accept 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 shall comply with 3.03.1, 3.03.2 and 3.03.3 above or with appendix M to these OSR. A multihull shall comply with appendix M to these OSR. * or as from time to time specified by ISAF	Extract Mo0,1,2
3.03.5	Regular inspection of the keel and keel/hull attachment structure are strongly recommended	Mo0,1,2,3,4
3.04	Stability - Monohulls	Mo0,1,2,3,4
3.04.1	Either with, or without, reasonable intervention from the crew a yacht shall be capable of self-righting from an inverted position. Self-righting shall be achievable whether or not the rig is intact.	Mo0
a)	When there is a moveable or variable ballast system, written instructions on how to right the boat after a capsize shall be prominently and clearly displayed. All persons on board shall have a thorough knowledge of the	Mo0
3.04.2	righting procedures A yacht shall be designed and built to resist capsize.	Mo0,1,2,3,4

3.04.3	Yachts shall demonstrate compliance with ISO 12217-2*, either by EC Recreational Craft Directive certification (having obtained the CE mark) or the designer's declaration, for the race categories as follows:	Mo0,1,2,3
3.04.3	Yachts shall demonstrate compliance with ISO 12217-2* Design Category A or higher, either by EC Recreational Craft Directive certification (having obtained the CE mark) or the designer's declaration. * The latest effective version of ISO 12217-2 should be used unless the yacht	Extract Mo0,1,2
_	was already designed to a previous version	
3.04.4	For yachts which cannot demonstrate compliance in accordance with 3.04.3, a yacht shall provide, as specified by the race organiser, either:	Mo0,1,2,3
a)	the stability index/AVS in ORC Rating System of not less than 120; or	Extract Mo0
b)	IRC SSS Base value of not less than 35; or	Extract Mo0,1
c)	a minimum STIX value of 32 and AVS not less than 130 - 0.002*m (Where "m" is the mass of the boat in the minimum operating condition as defined by ISO 12217-2.)	Extract Mo0,1,2
3.04.6	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.	
3.04.7	For boats with moveable or variable ballast the method in OSR 3.04.4 shall apply plus the relevant additional requirement of OSR Appendix K.	Mo0,1,2,3,4
3.04.8	Tanks for variable ballast shall be permanently installed and shall be provided 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.	Mo0,1,2,3,4
3.04.9	A boat fitted with moveable and/or variable ballast shall have a maximum static heel angle in the condition of Light Craft Condition (see ISO 12217-2) with moveable ballast moved fully to one side and variable ballast in the condition that produces maximum angle of heel of not greater than 35	Mo0,1,2,3,4
	degrees.	M-01224
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 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.	Mo0,1,2,3,4
3.06.2	Yachts first launched on or after January 2014 have a hatch with the following minimum clear openings in compliance with ISO 9094: - Circular shape: diameter 450mm;	Mo0,1,2,3,4
	- 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.	
	The measurement of the minimum clear opening is musurated in Figure 1.	

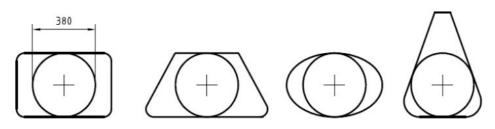


Figure 1 - Measurements of Minimum Clear Opening

3.06.3 when first launched prior to January 2014, if possible have each escape hatch Mo0, in compliance with the dimensions in OSR 3.07.2(a)(ii);

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 batch fitted forward of the maximum beam station, located on the side of **
- 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

Mo0,1,2,3,4

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. Mo0,1,2,3,4 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). ** b) permanently attached ** c) capable of being firmly shut immediately and remaining firmly shut in a 180 degree capsize (inversion) 3.08.4 A companionway hatch shall: ** be fitted with a strong securing arrangement which shall be operable from the a) exterior and interior including when the yacht is inverted ** have any blocking devices: b) capable of being retained in position with the hatch open or shut ** i ** whether or not in position in the hatchway, secured to the yacht (e.g. by ii lanyard) for the duration of the race, to prevent their being lost overboard permit exit in the event of inversion ** iii 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: the companionway sill shall not extend below the local sheerline. Or Mo0,1,2,3,4 a) 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 **Cockpits - Attention is Drawn to ISO 11812** 3.09 ** 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. 3.09.7 **Cockpit Volume** i) earliest of age or series date before April 1992 the total volume of all cockpits below lowest coamings shall not exceed 6% Extract MoMu0,1 (LWL x maximum beam x freeboard abreast the cockpit). ii) earliest of age or series date April 1992 and after as above for the appropriate category except that "lowest coamings" shall not Extract ** 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 ** abreast the cockpit, use the IMS terms L, B and FA. **Cockpit Drains** 3.09.8

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	**
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.	**
3.12	Mast Step The heel of a keel stepped mast shall be securely fastened to the mast step or adjoining structure.	**
3.13	Watertight Bulkheads	
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
3.13.3	A yacht shall have at least two watertight transverse main bulkheads in addition to any bulkheads positioned within the forward and aft 15 percent of the boat's LOA.	Mo0
3.13.4	Outside deck access for inspection and pumping shall be provided to every watertight compartment terminated by a hull section bulkhead, except that deck access to extreme end "crash" compartments is not required.	Mo0
3.13.5	An access hatch shall be provided in every required watertight bulkhead (except a "crash" bulkhead). The access hatch shall have means of watertight closure permanently attached to the main panel, or lid, or cover of the hatch. The closure shall not require tools to operate.	Mo0
a)	An access hatch should be capable of being securely shut within 5 seconds	ΜοΟ
3,13,6		ΜοΟ
a)	an extreme end "crash" bulkhead should be provided at the stern. If practicable the aft "crash" bulkhead should be forward of the rudder post.	ΜοΟ
<i>b)</i>	after flooding any one major compartment, a yacht should be capable of providing shelter and sustenance for a full crew for 2 weeks in an essentially dry compartment having direct access to the deck	ΜοΟ
с)	compartments between watertight bulkheads should be provided with a means of manually pumping out from within the hull from a position outside the compartment	ΜοΟ
3.14	Pulpits, Stanchions, Lifelines	
3.14.2	Lifeline deflection shall not exceed the following:	**
a)	When a deflecting force of 4 kg/f (39.2 N) is applied to a lifeline midway	**
~,	between supports of an upper or single lifeline, the lifeline shall not deflect more than 50mm. This measurement shall be taken at the widest span	
b)	between supports that are aft of the mast. When a deflecting force of 4 kg/f (39.2 N) is applied midway between supports of an intermediate lifeline of all spans that are aft of the mast, deflection shall not exceed 120mm from a straight line between the stanchions.	**
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)	Mo0,1,2,3,4

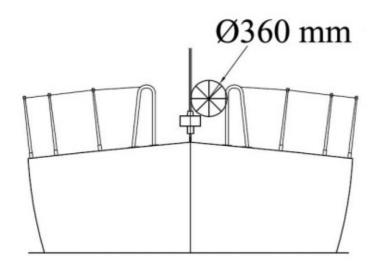


Figure 2 - Diagram Showing Pulpit Opening

b)	a stern pulpit, or lifelines arranged as an adequate substitute, with vertical openings conforming to Table 7	Mo0,1,2,3,4
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.	**
I)	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.	**
<i>m)</i>	It is strongly recommended that designs also comply to ISO 15085	**

3.14.5 Lifeline Height, Vertical Openings, Number of Lifelines

	LOA	earliest of age/serio		minin	num requirements		Cate	jory
	under 8.5 m(28 ft)	before Ja 1992		in) ab	e lifeline at a height of no lest pove the working deck. No ve ed 560 mm (22 in).			
	under 8.5 m(28 ft)	January after	1992 and	as for when	r under 8.5 m(28 ft) in table an intermediate lifeline is fit ing shall exceed 380 mm (15	ted no vertical	nat **	
	8.5 m (28 ft) and over	before Ja 1993	anuary	doubl than	le lifeline with upper lifeline a 600 mm (24 in) above the w cal opening shall exceed 560	at a height of no le orking deck. No	SS **	
	8.5 m (28 ft)and ove	-	1993 and		5 m (28 ft) and over in Table ertical opening shall exceed 3		hat **	
	all	all		line s	achts with intermediate lifelin hall be not less than 230 mm ing deck.		e **	
.14.6			ameters,	Requi	red Materials, Specification			
)	Lifelines sha					**		
		ded stainles				**		
	equivalent)			•	E) (Dyneema®/Spectra® or			
)					ible 8 below.	**		
)			•		d and used without close-fitti	na **		
					nay be fitted provided it is re	-		
	removed for		•	sting i		galary		
)				le 316	is recommended.	**		
)					used, it shall be spliced in a	cordance **		
	with the ma	• •			•			
		ard of synth	letic rope m	nav be	used to secure lifelines provi			
			exceed 100		4 in). This lanyard shall be re			
)	annually at All wire, fitt lifeline enclo of the requi	a minimum ings, ancho osure syste ired lifeline	exceed 100 n. prage points m which ha wire.) mm (5, fixtu		eplaced		
)	annually at All wire, fitt lifeline enclo	a minimum ings, ancho osure syste ired lifeline	exceed 100 n. prage points m which ha wire.) mm (5, fixtu	4 in). This lanyard shall be re res and lanyards shall compr Il points at least the breaking	eplaced ise a ** strength **	aid on braid)
	annually at All wire, fitt lifeline enclo of the requi TABLE 8 - N	a minimum ings, ancho osure syste red lifeline <u>linimum Dia</u>	exceed 100 n. orage points m which ha wire. ameters) mm (5, fixtu as at al	4 in). This lanyard shall be re res and lanyards shall compr Il points at least the breaking HMPE rope (Single braid)	eplaced ise a ** strength ** HMPE Core (Bra	aid on braid)
	annually at All wire, fitt lifeline enclo of the requi TABLE 8 - N	a minimum ings, ancho osure system red lifeline <u>Ainimum Dia</u> n (28ft)	exceed 100 n. orage points m which ha wire. ameters wire	mm (s, fixtu as at al	4 in). This lanyard shall be re res and lanyards shall compr Il points at least the breaking	eplaced ise a ** strength **	aid on braid)
I	annually at All wire, fitt lifeline enclo of the requi TABLE 8 - M LOA under 8.5r	a minimum ings, ancho osure system ired lifeline <u>Ainimum Dia</u> n (28ft) n	exceed 100 n. orage points m which ha wire. ameters wire 3mm (1/8	in) in) in)	4 in). This lanyard shall be reres and lanyards shall compr Il points at least the breaking HMPE rope (Single braid) 4mm (5/32 in)	eplaced ise a ** strength ** HMPE Core (Bra 4mm (5/32 in)	aid on braid)
	annually at All wire, fitt lifeline enclo of the requi TABLE 8 - N LOA under 8.5r 8.5m - 13r over 13m (Toe Rail o	a minimum ings, ancho osure syste red lifeline 4inimum Dia n (28ft) n (43 ft) r Foot - St	exceed 100 a. brage points m which ha wire. ameters wire 3mm (1/8 4mm (5/32 5mm (3/16 op	in) in) in) in) in) in) in) in)	4 in). This lanyard shall be reader the set of the set of the shall compresent the set of the set o	eplaced ise a ** strength ** HMPE Core (Bra 4mm (5/32 in) 5mm (3/16 in) 5mm (3/16in) MOO	aid on braid)
.17	annually at All wire, fitt lifeline enclo of the requi TABLE 8 - M LOA under 8.5r 8.5m - 13r over 13m Toe Rail of around the	a minimum ings, ancho osure system red lifeline <u>dinimum Dia</u> <u>n (28ft)</u> <u>n</u> (43 ft) r Foot - St foredeck fro	exceed 100 a. brage points m which ha wire. ameters wire 3mm (1/8 4mm (5/32 5mm (3/16 op height 25 m om abreast	in) in) in) in) in) inn (1 in) inn (4 in). This lanyard shall be reres and lanyards shall compr Il points at least the breaking HMPE rope (Single braid) 4mm (5/32 in) 5mm (3/16 in)	eplaced ise a ** strength ** HMPE Core (Bra 4mm (5/32 in) 5mm (3/16 in) 5mm (3/16 in) 5mm (3/16in) MoO alled MoO, and not	,1,2,3)
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.17 17.1	annually at All wire, fitt lifeline enclo of the requi TABLE 8 - M LOA under 8.5r 8.5m - 13r over 13m (Toe Rail of around the further inbo half-beam. The followir TABLE 10 LOA Earli or S	a minimum ings, ancho osure system red lifeline <u>Ainimum Dia</u> (<u>Ainimum Dia</u>) (<u>Ainimum Dia</u>	exceed 100 n. prage points m which ha wire. ameters wire 3mm (1/8 4mm (5/32 5mm (3/16 op height 25 m om abreast he edge of t is shall appl minimut	in) (in) (in) (in) (in) (in) (in) (in) (4 in). This lanyard shall be reader of the second lanyards shall compresent langer of the breaking HMPE rope (Single braid) 4mm (5/32 in) 5mm (3/16 in) 5mm (3/16 in) 5mm (3/16 in) in) shall be permanently instants, except in way of fittings borking deck than one third of discrete of the second s	eplaced ise a ** strength ** HMPE Core (Bra 4mm (5/32 in) 5mm (3/16 in) 5mm (3/16 in) 5mm (3/16in) Mo0, alled Mo0, and not the local Mo0, Mo0,	,1,2,3 1,2,3 1,2,3)
) .17.1 .17.2	annually at All wire, fitt lifeline enclo of the requi TABLE 8 - N LOA under 8.5r 8.5m - 13r over 13m over 13m over Toe Rail or A toe rail of around the further inbo half-beam. The followir TABLE 10 LOA Earli or S any befo 198:	a minimum ings, ancho osure system red lifeline dinimum Dia (13 ft) r Foot - St foredeck fro bard from the oard from the oard from the oard from the oard from the part of Age eries Date ore January 1	exceed 100 a. brage points m which have wire. ameters wire 3mm (1/8 4mm (5/32 5mm (3/16) op height 25 m om abreast he edge of t as shall appl minimum a toe ra	in) (in) (in) (in) (in) (in) (in) (in) (4 in). This lanyard shall be reader of the second lanyards shall comproved lipoints at least the breaking HMPE rope (Single braid) 4mm (5/32 in) 5mm (3/16 in) 5mm (3/16 in) 5mm (3/16 in) 5mm (3/16 in) 10 shall be permanently instants, except in way of fittings brking deck than one third of the second deck than one third of the universements 10 mm height of 20 mm (3/4 in the second deck that the second dec	eplaced ise a ** strength ** HMPE Core (Bra 4mm (5/32 in) 5mm (3/16 in) 5mm (3/16 in) 5mm (3/16 in) MoO, alled MoO, and not the local MoO, MoO, MoO,	,1,2,3 1,2,3 1,2,3 1,2,3	
.17 17.1	annually at All wire, fitt lifeline enclo of the requi TABLE 8 - N LOA under 8.5r 8.5m - 13r over 13m over 13m over Toe Rail or A toe rail of around the further inbo half-beam. The followir TABLE 10 LOA Earli or S any befo 198:	a minimum ings, ancho osure system red lifeline <u>Ainimum Dia</u> (<u>Ainimum Dia</u>) (<u>Ainimum D</u>	exceed 100 a. brage points m which have wire. ameters wire 3mm (1/8 4mm (5/32 5mm (3/16 op height 25 m om abreast he edge of t as shall appl minimum a toe ra an addit 50 mm interme	in) in) in) in) inn (1 i the m the wo ly:- m requ il mini tional l (2 in) diate l	4 in). This lanyard shall be reader of the second lanyards shall compresent langer of the breaking with the breaking of the breaking o	eplaced ise a ** strength ** HMPE Core (Bra 4mm (5/32 in) 5mm (3/16 in) 5mm (3/16 in) 5mm (3/16in) MoO, alled MoO, and not the local MoO, moD, moD,	,1,2,3 1,2,3 1,2,3 1,2,3 1,2,3 aximum hei	ght

3.18	Toilet	
3.18.1	A toilet, permanently installed	MoMu0,1,2
3.19	Bunks	1101100,1,2
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	MoMu0,1,2,3
5.20.1	accessible fuel shutoff control and capable of being safely operated in a	101100,1,2,5
	seaway.	
3.21	Drinking Water Tanks & Drinking Water	MoMu0,1,2,3
3.21.1	Drinking Water Tanks	MoMu0,1,2,3
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	MoMu0
	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	
3.21.3	Emergency Drinking Water	MoMu0,1,2,3
b)	In the absence of a power driven watermaker, at least 1 litre per person per	MoMu0
- /	day in at least two separate containers shall be provided for the expected	
	duration of the voyage	
c)	When a power-driven watermaker is on board, at least 500ml per person per	MoMu0
-	day in at least two separate containers shall be provided for the expected	
	duration of the voyage	
d)	Facilities shall be provided to collect rainwater for drinking purposes including	MoMu0
	when dismasted	
3.22	Hand Holds	
	Adequate hand holds shall be fitted below deck so that crew members may	**
	move about safely at sea.	
	A hand hold should be capable of withstanding without rupture a side force of	
	1500N - attention is drawn to ISO 15085.	
3.23	Bilge Pumps and Buckets	
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	**
2 22 4	for clearing out debris	**
3.23.4	Unless permanently installed, each bilge pump handle shall be provided with a	**
2 22 Г	lanyard or catch or similar device to prevent accidental loss	
3.23.5	The following shall be provided:	MaQ 1 2
a)	two permanently installed manual bilge pumps, one operable from above, the	Mo0,1,2
	other from below deck. Each pump shall be operable with all cockpit seats,	
	hatches and companionways shut and shall have permanently installed discharge pipe(s) of sufficient capacity to accommodate simultaneously both	
	pumps	
f)	two buckets of stout construction each with at least 9 litres (2 UK gallons, 2.4	**
1)	US gallons) capacity. Each bucket to have a lanyard.	
3.24	Compass	
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	MoMu0,1,2,3
-1	as a steering compass which may be hand-held	
3.25	Halyards.	
	No mast shall have less than two halyards, each capable of hoisting a sail.	**
3.26	Bow Fairlead	
	A bow fairlead, closed or closable and a cleat or securing arrangement,	Mo0
	suitable for towing shall be permanently installed.	
	-	

3.27 Navigation Lights (see OSR 2.03.3)

- 3.27.1 Navigation lights shall be mounted so that they will not be masked by sails or ** the heeling of the yacht.
- Navigation lights shall not be mounted below deck level and should be at no ** 3.27.2 less height than immediately under the upper lifeline.
- 3.27.3 Navigation light intensity
 - TABLE 11

	TABLE 11		
	LOA	Guide to required minimum power rating for an elect	ric bulb in a
		navigation light	
	under 12 m (39.4 ft)	10 W	
	12 m (39.4 ft) and	25 W	
	above		
3.27.4		shall be carried having the same minimum	MoMu0,1,2,3
512711		gation lights above, with a separable power source,	1101100/1/2/0
		em essentially separate from that used for the normal	
	navigation lights	en essentially separate from that used for the normal	
3.27.5	5	n lights shall be carried, or for lights not dependent on	**
5.27.5	bulbs, appropriate spares		
3.28	Engines, Generators, I		
3.28.1	Propulsion Engines		**
a)		systems shall be installed in accordance with their	**
uj	-	s and shall be of a type, strength, capacity, and	
	-	he size and intended use of the yacht.	
b)		igine when fitted shall: be provided with a	**
U)		naust, coolant, and fuel supply systems and fuel	
	• •	ered; and have adequate protection from the effects of	
	heavy weather.	and have adequate protection from the effects of	
c)	,	ired by Special Regulations shall provide a minimum	MoMu0,1,2,3
C)		square root of LWL in metres) or (square root of LWL	1101100,1,2,5
	in feet)	Square root of LVVL III metres of (Square root of LVVL	
	,	gine shall be provided for yachts	
e) 3.28.2	Generator	Mo0,1,2Mu0	
J.20.2		**	
	A separate generator for		
	-	all be permanently installed, securely covered, and nstalled exhaust, cooling and fuel supply systems and	
3.28.3	Fuel Systems	lequate protection from the effects of heavy weather.	
	-	with a shutoff valve. Except for permanently installed	
a)	•	· · · · ·	MoMu0,1,2,3
b)		e tank is not permitted as a fuel tank.	ΜοΜυθίος
b)	••••	all have a minimum amount of fuel which may be	MoMu0,1,2,3
	•	Race but if not, shall be sufficient to be able to meet	
		or the duration of the race and to motor at the above	
2 20 4	minimum speed for at lea	asl o hours	
3.28.4	Battery Systems	is the only method for starting the ongine, the vest	
a)		is the only method for starting the engine, the yacht	MoMu0,1,2,3
	•	tery, the primary purpose of which is to start the	
L)	engine	an based shall be of the secled time form which	MaMuo 1 2 2
b)	-	s on board shall be of the sealed type from which	MoMu0,1,2,3
	• •	escape. Other types of battery installed on board at	
2.20		e for the remainder of their service lives.	**
3.29	-	pment, EPFS (Electronic Position-Fixing	**
	System), Radar, AIS		
		nlikely to be mandatory for small craft during the term	МоМи0,1,2,3
0 00 i	of the present Special Re	-	**
3.29.1	The following shall be pro		**
a)	A marine radio transceive	er (or if stated in the Notice of Race, an installed	MoMu0,1,2,3
	cotcom torminal) and		

satcom terminal), and an emergency antenna when the regular antenna depends upon the mast. i MoMu0,1,2,3

b) i	When the marine radio transceiver is VHF: it shall have a rated output power of 25W	MoMu0,1,2,2 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	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	МоМи0,1,2,3
	supplier Times Microwave).	
iv	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)	МоМи0,1,2,3
V	VHF transceivers installed after 31 December 2015 shall be DSC capable	MoMu1,2,3
vi	DSC capable VHF transceivers shall be programmed with an assigned MMSI	MoMu1,2,3
	(unique to the boat), be connected to a GPS receiver and be capable of making	
	distress alert calls as well as sending and receiving a DSC position report with	
	another DSC equipped station	M - M - O
vii	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 specification of the ITU.	MoMu0
c)	At least two hand-held satellite telephones, watertight or with waterproof	MoMu0
,	covers and internal batteries. When not in use each to be stowed in a grab	
	bag (see OSR 4.21)	
d)	At least two hand-held marine VHF transceivers each with min 5w output	MoMu0
	power, watertight or with waterproof covers. When not in use to be stowed in	
_	a grab bag (see OSR 4.21)	
f)	Independent of a main radio transceiver, a radio receiver capable of receiving	**
	weather bulletins	14-14-0
<i>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.	ΜοΜυθ
	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	
b)	bag (see OSR 4.21.2)	MaMuo
h)	A D/F (direction-finding) radio receiver operating on 121.5MHz to take a	MoMu0
	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);	
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	MoMu0
	permanently powered up for the duration of the race and for which the race	
	committee shall have polling authority.	
k)	An MF/HF marine SSB transceiver (GMDSS/DSC) with at least 125 watts	MoMu0
	transmitter power and frequency range from at least 1.6 to 29.9 MHz with	
•	permanently installed antenna and earth.	
l)	An active radar set permanently installed either:	MoMu0
I	A pulse (magnetron) unit with not less than 4kW PEP and an antenna unit with	
ii	a maximum dimension not less than 533mm; Or A frequency modulated continuous wave (FMCW) Broadband Radar™ unit	
	The radar antenna unit shall remain essentially horizontal when the yacht is	
	heeled and at least 7 meters above the water. Installations in place before	
	January 2006 shall comply as closely as possible with OSR 3.29(L).	
■ m)	A class A AIS	MoMu0
p)	An AIS antenna shall be mounted on top of the main mast.	MoMu0,1,2
3.29.2	Yachts are reminded that no reflector, active or passive, is a guarantee of	**
	detection or tracking by a vessel using radar.	
<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.	
	IN 4 - PORTABLE EQUIPMENT & SUPPLIES for the yacht	
•	ter & 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 4.02.1	Hull marking (colour blaze) To assist in SAR location:-	Mo0,1,Mu0,1,2,3,4
a)	Each yacht shall show at least 4 m ² 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
4.02.3	Each yacht is recommended to show on each underwater appendage an area of highly-visible colour	ΜοΜυθ,1
4.03	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.	**
4.04	Jackstays, Clipping Points and Static Safety Lines	
4.04.1	Jackstays shall be provided-	MoMu0,1,2,3
a)	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
b)	comprising stainless steel 1×19 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
c)	which, when made from stainless steel wire shall be uncoated and used without any sleeving;	MoMu0,1,2,3
d)	20kN (2,040 kgf or 4,500 lbf) min breaking strain webbing is recommended;	МоМи0,1,2,3
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
e)	Warning - U-bolts as clipping points - see OSR 5.02.1(a)	МоМи0,1,2,3
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 a)	An anchor or anchors shall be carried according to the table below: 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,	**
b)	and	**
b) d)	a watertight flashlight with spare batteries and bulb a watertight high-intensity heavy duty handlamp powered by the ships' batteries, instantly available for use on deck and in the cockpit, with spare	MoMu0
	bulbs	
4.08	First Aid Manual and First Aid Kit	**
4.08.1	A suitable First Aid Manual shall be provided	**
	In the absence of a National Authority's requirement, the latest edition of one of the following is recommended:-	**
а) с)	International Medical Guide for Ships, World Health Organisation, Geneva Le Guide de la medecine a distance, by Docteur J Y Chauve, published by	<i>MoMu0,1</i> **
	Distance Assistance BP33 F-La Baule, cedex, France.	
e)	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	
4.05	A foghorn shall be provided	**
4.10	Radar Reflector	
4.10.1	An octahedral passive radar reflector shall be carried with circular sector plates of minimum diameter 30 cm (12") or a reflector with a documented minimum Radar Cross Section (RCS) area of 2 m2	**
4.10.2	A Radar Target Enhancer (RTE) shall be carried which complies with ISO 8729-2:2009 or equivalent.	MoMu0
4.11	Navigation Equipment	
4.11.1	Charts	
	Navigational charts (not solely electronic), light list and chart plotting equipment shall be provided	**
4.11.2	Reserve Navigation System	
	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	<i>MoMu0,1</i>
	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	
4.13.2	Two independent echo sounders shall be provided	MoMu0
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	**
4 1 0	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	
a)	At least two 406 MHz EPIRBs shall be provided	MoMu0
b)	It is recommended that a 406 MHz EPIRB should include an internal GPS, and	МоМи0,1,2
c)	also a 121.5MHz transmitter for local homing. Every EPIRB shall be registered with the appropriate authority associated with	MoMu0,1,2
C)	the country code in the hexadecimal identification (15 Hex ID) of the beacon.	1101100,1,2
	A beacon can be registered online with the Cospas-Sarsat IBRD if the country	
	does not provide a registration facility and the country has allowed direct	
-1)	registration in the IBRD	M-M-0 1 2
d)	Every ship's 406 MHz EPIRB shall be water and manually activated. A list of registration numbers of 406 EPIRBs should be notified to event	MoMu0,1,2 <i>MoMu0,1,2</i>
e)	organizers and kept available for immediate use.	MOMU0,1,2
f)	Consideration should be given to the provision of a locator device (e.g. an	МоМи0,1,2
-	"Argos" beacon) operating on non - SAR frequencies, to aid salvage if a yacht	
	is abandoned.	
g)	See OSR 3.29.1(e) for on-board D/F and OSR 5.07.1(b) for personal EPIRBs (PLBs)	ΜοΜυθ
4.20	Liferafts	MoMu0,1,2
4.20.		
a)	A sufficient number of liferafts shall be provided so that in the event of any	MoMu0
	one liferaft being lost or rendered unserviceable, sufficient aggregate capacity	
b)	remains for all persons on board Liferafts shall comply with SOLAS LSA code 1997 Chapter IV or later version	MoMu0
U)	except that they are acceptable with a capacity of 4 persons and may be	Mondo
	packed in a valise. A SOLAS liferaft shall contain at least a SOLAS "A" pack.	
4.20.		MoMu0,1,2
2)	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	MoMu0,1,2
-	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,	
i	provided that:- each compartment is watertight or self-draining (self-draining compartments	MoMu0,1,2
1	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
	launched quickly and easily, or-	1101100/172
V	Liferaft stowage on a multihull and a monohull with moveable ballast shall be	MoMu0,1,2
	such that each liferaft may be readily removed and launched whether or not	
	the yacht is inverted. The end of each liferaft painter should be permanently made fast to a strong	MoMu0,1,2
c)	point on board the yacht.	momuo,1,2
4.20.4		MoMu0,1,2
a)	Each raft shall be capable of being got to the lifelines or launched within 15	MoMu0,1,2
<i>(</i> .)	seconds.	
<i>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	МоМи0,1,2
4.20.		MoMu0,1,2
	IMPORTANT NOTICE Recent evidence has shown that packaged liferafts are	МоМи0,1,2

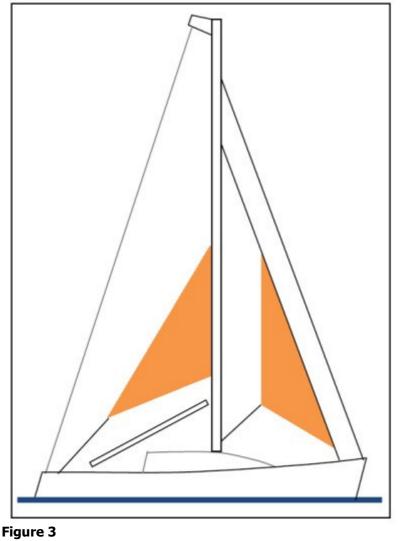
	vulnerable to serious damage when dropped (e.g. from a boat onto a marina pontoon) or when subjected to the weight of a crew member or heavy object	
	(e.g. an anchor). Damage can be caused internally by the weight of the heavy steel CO2 bottle abrading or splitting neighbouring layers of buoyancy tube	
	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.	
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	
b)	approved service station.	
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	MoMu0,1,2
	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.	
4.21.		
a)	A yacht is recommended to have for each liferaft, a grab bag with the following	МоМи0,1,2
	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 have a lanyard and clip.	
b)	Note: it is not intended to duplicate in a grab bag items required by other	МоМи0,1,2
-	OSRs to be on board the yacht - these recommendations cover only the	
	stowage of those items	
4.21 .		MaMuQ 1 2
g) h)	a watertight flashlight with spare batteries and bulb dry suits or thermal protective aids or survival bags	МоМи0,1,2
i)	second sea anchor for the liferaft (not required if the liferaft has already a	МоМи0,1,2
	spare sea anchor in its pack) (recommended standard ISO 17339) with swivel	
	and >30m line diameter >9.5 mm	
j)	two safety tin openers (if appropriate)	МоМи0,1,2
k)	first-aid kit including at least 2 tubes of sunscreen. All dressings should be capable of being effectively used in wet conditions. The first-aid kit should be	МоМи0,1,2
	clearly marked and re-sealable.	
1)	signalling mirror	МоМи0,1,2
m)	high-energy food (min 10 000kJ per person recommended for Cat Zero)	МоМи0,1,2
n)	nylon string, polythene bags, seasickness tablets (min 6 per person	МоМи0,1,2
	recommended)	Manua 1 7
о) р)	watertight hand-held aviation VHF transceiver (if race area warrants) water in re-sealable containers and a hand-operated desalinator	ΜοΜu0,1,2 ΜοΜu0
q	hand-held satellite telephone with waterproof cover and internal batteries	ΜοΜυθ
r)	strobe light	ΜοΜυθ
<i>s)</i>	medical supplies including any for pre-existing medical conditions of any crew member	ΜοΜυθ
t)	spare unbreakable spectacles for any crew members needing them	ΜοΜυθ
u)	wet notebook with captive pencil	ΜοΜυθ
V)	powerful whistle (operated by mouth)	ΜοΜυθ
W)	6 red SOLAS compliant parachute flares, 3 white parachute flares, 2 orange	ΜοΜυθ
V)	SOLAS compliant smoke flares, cyalume-type light sticks a watertight, high-powered torch (flashlight) with spare batteries and bulbs	ΜοΜυθ
x) Y)	watertight hand-held EPFS (Electronic Position-Fixing System) (e.g. GPS)	ΜοΜμΟ ΜοΜμΟ
z)	SART (Search and Rescue Transponder)	ΜοΜμΟ
4.21.4		MoMu0
a)	It is recommended to keep a bag, stored ready for immediate use within reach	ΜοΜυθ
	of the main companionway hatch, to facilitate the recovery of a man overboard	
	by a swimmer of the watch and containing-	

<i>b)</i>	50 metres of buoyant 8mi	n rope		ΜοΜυθ	
<i>ć</i>)	a pair of swim fins	,		ΜοΜυθ	
<i>d</i>)	a semi-automatic life jacket			ΜοΜυθ	
<i>e)</i>	suitable clothing to effect a man overboard recovery in cold water				
4.22	Lifebuoys				
4.22.1	The following shall be prov	vided within reach of the	helmsman and ready for	**	
	instant use:				
a)	a lifebuoy with a self-igniti			**	
b)	In addition to a) above, or	•	of the helmsman and read	y MoMu0,1,2	
	for instant use, equipped w			Ma M. O. 1. 2	
ı ii	a whistle, a drogue, a self		the outcoded or be capable	MoMu0,1,2	
11	a pole and flag. The pole s of being fully automatically	-	•		
	seconds. It shall be attach			20	
	and is to be of a length ar			6	
	ft) off the water.			0	
iii	Each lifebuoy shall be equ	ipped with a sachet of flu	Joresceine dve	MoMu0	
4.22.2	When at least two lifebuoy			MoMu0,1,2	
	them shall depend entirely		-	, ,	
4.22.3	Each inflatable lifebuoy an	d any automatic device (e.g. pole and flag extended	ed **	
	by compressed gas) shall		t intervals in accordance		
	with its manufacturer's ins				
4.22.4	Each lifebuoy or lifesling s	hall be fitted with marine	e grade retro-reflective	**	
4 2 - Г	material (4.18).	a calaur of anch lifeburg	, ha a cafat , calaur in the	**	
4.22.5	It is recommended that the yellow-red range.	e colour of each lifeduoy	' De a salety colour in the	1. J.	
4.23	Pyrotechnic and Light S	Signals			
4.23.1		-	SOLAS I SA Code Chante	r **	
1.23.1	3.1 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	red hand flares LSA	orange smoke LSA	race category	
	LSA III 3.1	III 3.2	III 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 pro	vided 15 m - 25 m (50 ft	: - 75 ft) length readily	**	
()	accessible to cockpit.	is used and and the	mandix D	**	
<i>b)</i>	the "throwing sock" type i	-	ipenaix D		
c) 4.25	A lifesling shall be provide Cockpit Knife	u		MoMu0,1,2,3	
7.23	A strong, sharp knife, shea	athed and securely restra	nined shall he provided	**	
	readily accessible from the	-			
4.26	Storm & Heavy Weathe	•			
4.26.1	Design				
a)	it is strongly recommen	nded that persons in c	harge consult their	**	
	designer and sailmaker	to decide the most effective the	ffective size for storm		
	and heavy weather sail		-		
	propulsion for the yach		-	S	
	part of the racing inver				
	areas are likely to suit	some yachts according	g to their stability and		
	other characteristics.				

4.26.2 High Visibility

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>	
4.26.3	Materials	
a)	aromatic polyamides, carbon and similar fibres shall not be used in a trysail or	**
۵,	storm jib but spectra/dyneema and similar materials are permitted.	
b)	it is strongly recommended that a heavy-weather jib does not contain aromatic	**
	polyamides, carbon and similar fibres other than spectra/dyneema.	
4.26.4		
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:	
	$(0.255 \times 10^{10} \text{ km})^*$ To apply to sails	
	made in January 2012 and after.	
c)	a storm trysail which shall be capable of being sheeted independently of the	MoMu 0,1,2
	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.	
d)	the storm trysail as required by OSR 4.26.4 (c) shall have the yacht's sail	Extract MoMu 0,1,2
- 1	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;	
e)	a storm jib of area not greater than 5% height of the foretriangle squared,	MoMu0,1,2
	with luff maximum length 65% height of the foretriangle;	
f)	a heavy-weather jib (or heavy-weather sail in a yacht with no forestay) of area	**
b)	not greater than 13.5% height of the foretriangle squared;	MaMuO 1 2
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)	A trysail track should allow for the trysail to be hoisted quickly when the	МоМи0,1,2
'/	mainsail is lowered whether or not the mainsail is stowed on the main boom.	1101100,1,2
	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	ΜοΜυθ,1,2
	permanently installed or readily set up, on which to set the storm jib.	



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)

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
- 4.28.2 A yacht shall be equipped with an EPFS (e.g. GPS) capable of recording a man MoMu1,2 overboard position within 10 seconds and monitoring that position. M₀0

4.29 **Deck Bags**

- 4.29.1 OSR 4.29 shall apply only when RRS 51 moveable ballast is changed in the Mo0 Notice of Race, Sailing Instructions or Class Rules to permit deck bags a) A deck bag or bags may be provided for the stowage of sails on deck Mo0 M₀0
- b) A deck bag shall be:i so constructed to ensure rapid draining of water
- securely fastened in such a way that the integrity of deck fittings e.g. ii stanchions and lifelines, is not compromised

SECTION 5 - PERSONAL EOUIPMENT

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	**

MoMu0,1

MoMu0

MoMu0

MoMu0

Mo0

Mo0

ii	Lifejackets manufactured after 1 January 2012 shall be in accordance with ISO	**
	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 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.	
	Wearing a Level 275 lifejacket may hamper entry into liferafts.	
b)	fitted with either a crotch strap(s) / thigh straps or a full safety harness in	**
- 1	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,	
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	MoMu0
5.01.2	activation head shall be carried.	
5.01.3	Each yacht shall carry a spare lifejacket or lifejacket(s) as required in OSR	MoMu0
	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.	
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	MoMu0,1,2,3
	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.	
2)	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)		MOMUU, 1, 2, 3
		, , ,
	if the hook is rotated under load at right-angles to the axis of the U-	
	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	
5.02.2	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.	
5.02.2	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	MoMu0,1,2,3
	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. At least 30% of the crew shall each, in addition to the above be provided with either:-	
5.02.2 a) b)	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. At least 30% of the crew shall each, in addition to the above be provided with	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. At least 30% of the crew shall each, in addition to the above be provided with either:- a safety line not more than 1m long, or	MoMu0,1,2,3 MoMu0,1,2,3
a) b)	 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. At least 30% of the crew shall each, in addition to the above be provided with either:- a safety line not more than 1m long, or a mid-point snaphook on a 2m safety line Each yacht shall carry spare harness and safety line units as required in OSR 5.02.1 above sufficient for at least 10% of the total number of persons on 	MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3
a) b) c)	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. At least 30% of the crew shall each, in addition to the above be provided with either:- a safety line not more than 1m long, or a mid-point snaphook on a 2m safety line Each yacht shall carry spare harness and safety line units as required in OSR 5.02.1 above sufficient for at least 10% of the total number of persons on board (minimum one unit).	MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 Mo0
a) b)	 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. At least 30% of the crew shall each, in addition to the above be provided with either:- a safety line not more than 1m long, or a mid-point snaphook on a 2m safety line Each yacht shall carry spare harness and safety line units as required in OSR 5.02.1 above sufficient for at least 10% of the total number of persons on 	MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3

	embedded in the stitching, to indicate an overload. A line which has been overloaded shall be replaced as a matter of urgency.	
5.02.4	A crew member's lifejacket and harness shall be compatible	MoMu0,1,2,3
5.02.5	It is strongly recommended that:-	MoMu0,1,2,3
a)	static safety lines should be securely fastened at work stations;	MoMu0,1,2,3
b)	A harness should be fitted with a crotch strap or thigh straps.	МоМи0,1,2,3
<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;	МоМи0,1,2,3
<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);	МоМи0,1,2,3
<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.	МоМи0,1,2,3
5.02.6	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.	
5.03	Personal Location Lights	MoMu0
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
5.04	Foul Weather Suits	
a)	a foul weather suit with hood shall be supplied to each crew member.	MoMu0
<i>b</i>)	<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>	**
5.05	Knife	MoMu0
	A knife, one shall be supplied to each crew member to be worn on the person at all times	MoMu0
5.06	Watertight flashlight	MoMu0
5.07	A buoyant watertight flashlight, one shall be supplied to each crew member. Survival Equipment	MoMu0 MoMu0
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
<i>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	МоМи0,1,2
	overboard incident independent of the equipment carried by the parent vessel	
e)	Where possible every PLB shall be registered with the appropriate authority associated with the country code in the hexadecimal identification (15 Hex ID) of the beacon. A beacon can be registered online with the Cospas-Sarsat IBRD	MoMu0,1,2
	if the country does not provide a registration facility and the country has	
	allowed direct registration in the IBRD.	
5.08	Diving Equipment	
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	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 sessions.	
6.01.2	Every member of a crew including the skipper shall have undertaken training	MoMu0
0.01.2	as in OSR 6.01	
6.01.4	Except as otherwise provided in the Notice of Race, an in-date certificate	MoMu0,1,2
0.01.4	gained at an ISAF Approved Offshore Personal Survival Training course shall be	1101100,1,2
	accepted by a race organizing authority as evidence of compliance with Special	
	Regulation 6.01. See Appendix G - Model Training Course, for further details.	
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	**
0.04.1	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	MoMu0
0.05.1	(Proficiency In Medical Care) certificate or equivalent	Momuo
6.05.2	In addition to 6.05.1 another member of the crew	MoMu0
0.05.2		MOMUU
	shall have a first aid certificate completed within the last five years meeting	
	any of the following requirements:	
i	A certificate listed on the ISAF website www.sailing.org/specialregs of MNA	
	recognised courses	
ii	STCW 95 First Aid Training complying with A-VI/1-3 – Elementary First Aid or	
6 95 4	higher STCW level	ste ste
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	MoMu0
	enable them to carry out basic repairs underwater and to provide assistance if	
	necessary in recovery of a man overboard	
APPEND	DICES 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)

(Monol	nulls pre-2010 and Multihulls)		
m1	A monohull with the earliest of Age of shall comply with OSR 3.03.1, 3.03.2	Series Date before the 1 January 2010 and 3.03.3 or with this appendix. A	MoMu0,1,2
	multihull shall comply with this appen	••	
	TABLE 2		MoMu0,1,2
	LOA	earliest of age or series date	race category
	all	January 1986 and after	MoMu0,1
	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
1112	modified and repaired in accordance		1101100,1,2
a)	the EC Recreational Craft Directive for		MoMu0,1,2
aj	mark), or	Category A (naving obtained the CE	1101100,1,2
b)	the ABS Guide for Building and Classi	ng Offshore Vachts in which case the	MoMu0,1,2
5)		tificate of plan approval issued by ABS,	1101100,1,2
	,	esigner and builder which confirm that	
		built the yacht in accordance with the ABS	
	Guide,	Suit the yacht in accordance with the ADS	
c)		tatements signed by the designer and	MoMu0,1,2
C		respectively designed and built the yacht	101100,1,2
	in accordance with the ISO standard,		
d)		ules may accept when that described in	MoMu0,1,2
u)	(a), (b), or (c) above is not available,		1101100,1,2
		the standards listed above that the yacht	
	fulfills the requirements of (a), (b), or	•	
m3	Any significant repairs or modification		MoMu0,1,2
mo	appendages, on a yacht defined in tal		1101100,1,2
		ritten statement or statements shall be	
	on board.	ficen statement of statements shall be	

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