ISAF OFFSHORE SPECIAL REGULATIONS

JANUARY 2014 - DECEMBER 2015 (Incorporating Amendments Effective 1st January 2015) www.sailing.org/specialregs



Extract for Race Category 3 Multihulls with Life Raft

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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 2015

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.
- **Responsibility of Person in Charge** 1.02
- The safety of a yacht and her crew is the sole and inescapable 1.02.1 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.
- Neither the establishment of these Special Regulations, their use by race 1.02.2 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.
- Decision to race -The responsibility for a yacht's decision to ** 1.02.3 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 TARIF 1

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	A foul weather suit is clothing designed to keep the wearer
Suit	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

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

- 1.03.2 The words "shall" and "must" are mandatory, and "should" and "may" are ** permissive.
- 1.03.3 The word "yacht" shall be taken as fully interchangeable with the word "boat".

SECTION 2 - APPLICATION & GENERAL REQUIREMENTS

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:

	Standards of Safety and accommodation required for Such varying	
	circumstances:	
2.01.4	Category 3	
	Races across open water, most of which is relatively protected or close to	MoMu,3
	shorelines.	
	Short races, close to shore in relatively warm or protected waters	MoMu,4
	normally held in daylight.	
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	
2.02	national authority or the race organizers.	
2.03	General Requirements	
2.03.1	All equipment required by Special Regulations shall:-	slasla
a)	function properly	**
b)	be regularly checked, cleaned and serviced	**
c)	when not in use be stowed in conditions in which deterioration is	<u> </u>
٩/	minimised	**
d)	be readily accessible	**
e)	be of a type, size and capacity suitable and adequate for the intended use	7.7
2.03.2	and size of the yacht.	
	Heavy items: ballast, ballast tanks and associated equipment shall be permanently	**
a)	installed	
b)	heavy movable items including e.g. batteries, stoves, gas bottles, tanks,	**
U)	toolboxes and anchors and chain shall be securely fastened	
c)	heavy items for which fixing is not specified in Special Regulations shall	**
C)	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	**
۵,	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 normal trim.	
3.02.3	A canting keel pivot shall be completely contained within a watertight	**
	enclosure which shall comply with OSR 3.02.2. Access points in the	
	watertight enclosure for control and actuation systems or any other	

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

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purpose shall comply with OSR 3.02.1.

	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.	
3.05	Stability and Flotation - Multihulls	Mu0,1,2,3,4
3.05.1	Attention is drawn to ISO 12217-2. Adequate watertight bulkheads and compartments (which may include permanently installed flotation material) in each hull shall be provided to ensure that a multihull is effectively unsinkable and capable of floating in a stable position with at least half the length of one hull flooded. (see OSR 3.13.2).	<i>Mu0,1,2,3,4</i> Mu0,1,2,3,4
3.05.2	Multihulls built on or after Jan 1999 shall in every hull without accommodation be divided at intervals of not more than 4m (13ft 3") by one or more transverse watertight bulkheads	Mu0,1,2,3,4
3.05.3 3.07 3.07.1	A yacht shall be designed and built to resist capsize. Exits and Escape Hatches - Multihulls Exits	Mu0,1,2,3,4 Mu0,1,2,3,4
a)	In a multihull of 8m (26.2ft) LOA and greater, each hull which contains accommodation shall have at least two exits.	Mu0,1,2,3,4
b)	In a multihull of less than 8m (26.2ft) LOA each hull which contains accommodation shall have at least two exits.	Mu0,1,2,3
3.07.2	Escape Hatches, Underside Clipping Points & Handholds	MuO 1 2 2 4
a)	In a multihull of 12m (39.4ft) LOA and greater each hull which contains accommodation shall:-	Mu0,1,2,3,4
i	have an escape hatch for access to and from the hull in the event of an inversion;	Mu0,1,2,3,4
ii	when first launched on or after January 2003 have a minimum clearance diameter through each escape hatch of 450mm or when an escape hatch is not circular, sufficient clearance to allow a crew member to pass through fully clothed;	Mu0,1,2,3,4
iii	when first launched prior to January 2003, if possible have each escape hatch in compliance with the dimensions in OSR 3.07.2(a)(ii);	Mu0,1,2,3,4
iv	when the yacht is inverted have each escape hatch above the waterline;	Mu0,1,2,3,4
V	when first launched on or after January 2001 have each escape hatch at or near the midships station;	Mu0,1,2,3,4
Vİ	in a catamaran first launched on or after January 2003 have each escape hatch on the side nearest the vessel's central axis.	Mu0,1,2,3,4
b)	A trimaran of 12m (39.4ft) LOA and greater first launched on or after 1/03 shall have at least two escape hatches in compliance with the dimensions in OSR 3.07.2(a) (ii)	Mu0,1,2,3,4
c)	Each escape hatch must have been opened both from inside and outside within 6 months prior to an intended race	Mu0,1,2,3,4
d)	A multihull shall have on the underside appropriate handholds/clipping points sufficient for all crew (on a trimaran these shall be around the central hull).	Mu0,1,2,3,4
e)	A catamaran first launched on or after 1/03 with a central nacelle shall have on the underside around the central nacelle, handholds of sufficient	Mu0,1,2,3,4
f)	capacity to enable all persons on board to hold on and/or clip on securely In a catamaran with a central nacelle, it is recommended that each hull has an emergency refuge, accessible via a special hatch in the side of the hull nearest the vessel's central axis, which hatch may be opened and closed from the inside and outside	Mu0,1,2,3,4
3.07.3	A multihull of less than 12m (39.4ft) LOA shall either have escape hatches in compliance with OSR 3.07.2 (a)(b) and (c)or shall comply with OSR 3.07.3 (a) and (b):	Mu2,3,4
a)	each hull which contains accommodation shall have, for the purpose of cutting an escape hatch, appropriate tools kept ready for instant use adjacent to the intended cutting site. Each tool shall be secured to the vessel by a line and a clip, and	Mu2,3,4
b)	in each hull at a station where an emergency hatch may be cut, the	Mu2,3,4

	cutting line shall be clearly marked both inside and outside with an outline and the words ESCAPE CUT HERE	
3.08	Hatches & Companionways	
3.08.1	No hatch forward of the maximum beam station, other than a hatch in	**
3.00.1	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	**
3.00.2	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:	
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:	
a)	be fitted with a strong securing arrangement which shall be operable	**
•	from the exterior and interior including when the yacht is inverted	
b)	have any blocking devices:	**
i	capable of being retained in position with the hatch open or shut	**
ii	whether or not in position in the hatchway, secured to the yacht (e.g. by	**
	lanyard) for the duration of the race, to prevent their being lost	
	overboard	
iii	permit exit in the event of inversion	**
3.08.7	A companionway hatch extending below the local sheerline and shall	Mu0,1,2,3,4
	comply with either (a) or (b):	
a)	be capable of being blocked off up to the level of the local sheerline,	Mu0,1,2,3,4
	whilst giving access to the interior with the blocking devices (e.g.	
	washboards) in place with a minimum sill height of 300 mm.	
b)	A company to a complete by the last the complete and the ICO 41012	M-0 1 2 2
I	A companionway hatch shall be in compliance with ISO 11812 –	Mu0,1,2,3
2.00	Watertight cockpits and quick-draining cockpits to design category A	
3.09 3.09.1	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	**
3.03.2	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	**
310313	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	Extract MoMu2,3,4
	9% (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	Extract **
	not include any aft of the FA station and no extension of a cockpit aft of	
	the working deck shall be included in calculation of cockpit volume	
	IMS-rated boats may instead of the terms LWL, maximum beam,	Extract **
2 00 0	freeboard 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	
	See OSK 3.03.1. 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)	**
b)	unobstructed openings or equivalent 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	sleale
	Sheet winches shall be mounted in such a way that an operator is not	**
3.12	required to be substantially below deck. Mast Step	
J.12	The heel of a keel stepped mast shall be securely fastened to the mast	**
	step or adjoining structure.	
3.13	Watertight Bulkheads	
	multihulls also see OSR 3.05	Mu0,1,2,3,4
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	Mo0Mu0,1,2,3,4
3.14	compartment. Pulpits, Stanchions, Lifelines	
3.14.1	When due to the particular design of a multihull it is impractical to precisely follow Special Regulations regarding pulpits, stanchions, lifelines,	Mu0,1,2,3,4,
	the regulations for monohulls shall be followed as closely as possible with the aim of minimising the risk of people falling overboard.	
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 between supports that are aft of the mast.	
b)	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.	1.1.
3.14.3	The following shall be provided:	**
c)	lifelines (guardlines) supported on stanchions, which, with pulpits, shall form an effectively continuous barrier around a working deck for man- overboard prevention. Lifelines shall be permanently supported at	**
	intervals of not more than 2.20m (86.6") and shall not pass outboard of supporting stanchions	
d)	upper rails of pulpits at no less height above the working deck than the upper lifelines as in Table 7.	**
e)	Openable upper rails in bow pulpits shall be secured shut whilst racing	**
f)	Pulpits and stanchions shall be permanently installed. When there are	**
	sockets or studs, these shall be through-bolted, bonded or welded. The pulpit(s) and/or stanchions fitted to these shall be mechanically retained without the help of the life-lines. Without sockets or studs, pulpits and/or	
a)	stanchions shall be through-bolted, bonded or welded. The bases of pulpits and stanchions shall not be further inboard from the	**
g)	The bases of pulpits and stanchions shall not be further inboard from the edge of the appropriate working deck than 5% of maximum beam or 150 mm (6 in), whichever is greater.	
h)	Stanchion or pulpit or pushpit bases shall not be situated outboard of a working deck. For the purpose of this rule the base shall be taken to	**

		include a sleeve or socket into which the tube is fitted but shall exclude a baseplate which carries fixings into the deck or hull.	
	i)	Provided the complete lifeline enclosure is supported by stanchions and pulpit bases effectively within the working deck, lifeline terminals and support struts may be fixed to a hull aft of the working deck	**
-	j)	Lifelines need not be fixed to a bow pulpit if they terminate at, or pass through, adequately braced stanchions set inside and overlapping the bow pulpit, provided that the gap between the upper lifeline and the bow pulpit does not exceed 150 mm (6 in).	**
	k)	Lifelines shall be continuous and fixed only at (or near) the bow and stern. However a bona fide gate shall be permitted in the lifelines on each side of a yacht. Except at its end fittings, the movement of a lifeline in a fore-and-aft direction shall not be constrained. Temporary sleeving in 3.14.6 (c) shall not modify tension in the lifeline.	**
	l)	Stanchions shall be straight and vertical except that:-	**
	' <i>)</i> i	within the first 50 mm (2 in) from the deck, stanchions shall not be	**
	ı	displaced horizontally from the point at which they emerge from the deck or stanchion base by more than 10 mm (3/8 in), and	
	ii	stanchions may be angled to not more than 10 degrees from vertical at any point above 50 mm (2 in) from the deck.	**
	m)	It is strongly recommended that designs also comply to ISO 15085	**
	3.14.4	Special Requirements for Pulpits, Stanchions, Lifelines on	Mu0,1,2,3,4
1	3.14.4	Multihulls	Mu0,1,2,3,4
		Multihulls The following shall be provided:-	
	3.14.4 a)	Multihulls The following shall be provided:- on a trimaran - a bow pulpit on the main hull, with lifelines around the main hull supported on stanchions. The lifelines may be interrupted	Mu0,1,2,3,4 Mu0,1,2,3,4
		Multihulls The following shall be provided:- on a trimaran - a bow pulpit on the main hull, with lifelines around the main hull supported on stanchions. The lifelines may be interrupted where there are nets or crossbeam wings outboard of the main hull on a trimaran - where a net joins the base of a bow pulpit on the main hull, an additional lifeline from the top of the pulpit to the forward	
	a) b)	Multihulls The following shall be provided:- on a trimaran - a bow pulpit on the main hull, with lifelines around the main hull supported on stanchions. The lifelines may be interrupted where there are nets or crossbeam wings outboard of the main hull on a trimaran - where a net joins the base of a bow pulpit on the main hull, an additional lifeline from the top of the pulpit to the forward crossbeam at or outboard of the crossbeam mid-point.	Mu0,1,2,3,4 Mu0,1,2,3,4
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	a) b) c)	Multihulls The following shall be provided:- on a trimaran - a bow pulpit on the main hull, with lifelines around the main hull supported on stanchions. The lifelines may be interrupted where there are nets or crossbeam wings outboard of the main hull on a trimaran - where a net joins the base of a bow pulpit on the main hull, an additional lifeline from the top of the pulpit to the forward crossbeam at or outboard of the crossbeam mid-point. on a trimaran - at a main or emergency steering position on an outrigger with or without a cockpit, lifelines protecting an arc of 3 meters diameter centred on the steering position. (When measuring between lifelines their taut, undeflected positions shall be taken for this purpose).	Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4
	a) b)	Multihulls The following shall be provided:- on a trimaran - a bow pulpit on the main hull, with lifelines around the main hull supported on stanchions. The lifelines may be interrupted where there are nets or crossbeam wings outboard of the main hull on a trimaran - where a net joins the base of a bow pulpit on the main hull, an additional lifeline from the top of the pulpit to the forward crossbeam at or outboard of the crossbeam mid-point. on a trimaran - at a main or emergency steering position on an outrigger with or without a cockpit, lifelines protecting an arc of 3 meters diameter centred on the steering position. (When measuring between lifelines their taut, undeflected positions shall be taken for this purpose). on a catamaran - lifelines from bow to stern on each hull and transverse lifelines to form an effectively continuous barrier around the working	Mu0,1,2,3,4 Mu0,1,2,3,4
	a) b) c)	Multihulls The following shall be provided:- on a trimaran - a bow pulpit on the main hull, with lifelines around the main hull supported on stanchions. The lifelines may be interrupted where there are nets or crossbeam wings outboard of the main hull on a trimaran - where a net joins the base of a bow pulpit on the main hull, an additional lifeline from the top of the pulpit to the forward crossbeam at or outboard of the crossbeam mid-point. on a trimaran - at a main or emergency steering position on an outrigger with or without a cockpit, lifelines protecting an arc of 3 meters diameter centred on the steering position. (When measuring between lifelines their taut, undeflected positions shall be taken for this purpose). on a catamaran - lifelines from bow to stern on each hull and transverse lifelines to form an effectively continuous barrier around the working area for man-overboard prevention. The transverse lifelines shall be	Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4
	a) b) c)	Multihulls The following shall be provided:- on a trimaran - a bow pulpit on the main hull, with lifelines around the main hull supported on stanchions. The lifelines may be interrupted where there are nets or crossbeam wings outboard of the main hull on a trimaran - where a net joins the base of a bow pulpit on the main hull, an additional lifeline from the top of the pulpit to the forward crossbeam at or outboard of the crossbeam mid-point. on a trimaran - at a main or emergency steering position on an outrigger with or without a cockpit, lifelines protecting an arc of 3 meters diameter centred on the steering position. (When measuring between lifelines their taut, undeflected positions shall be taken for this purpose). on a catamaran - lifelines from bow to stern on each hull and transverse lifelines to form an effectively continuous barrier around the working area for man-overboard prevention. The transverse lifelines shall be attached to bow and stern pulpits or superstructure. A webbing, strop or	Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4
	a) b) c)	Multihulls The following shall be provided:- on a trimaran - a bow pulpit on the main hull, with lifelines around the main hull supported on stanchions. The lifelines may be interrupted where there are nets or crossbeam wings outboard of the main hull on a trimaran - where a net joins the base of a bow pulpit on the main hull, an additional lifeline from the top of the pulpit to the forward crossbeam at or outboard of the crossbeam mid-point. on a trimaran - at a main or emergency steering position on an outrigger with or without a cockpit, lifelines protecting an arc of 3 meters diameter centred on the steering position. (When measuring between lifelines their taut, undeflected positions shall be taken for this purpose). on a catamaran - lifelines from bow to stern on each hull and transverse lifelines to form an effectively continuous barrier around the working area for man-overboard prevention. The transverse lifelines shall be attached to bow and stern pulpits or superstructure. A webbing, strop or rope (minimum diameter 6mm) shall be rove zig-zag between the	Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4
	a) b) c) d)	Multihulls The following shall be provided:- on a trimaran - a bow pulpit on the main hull, with lifelines around the main hull supported on stanchions. The lifelines may be interrupted where there are nets or crossbeam wings outboard of the main hull on a trimaran - where a net joins the base of a bow pulpit on the main hull, an additional lifeline from the top of the pulpit to the forward crossbeam at or outboard of the crossbeam mid-point. on a trimaran - at a main or emergency steering position on an outrigger with or without a cockpit, lifelines protecting an arc of 3 meters diameter centred on the steering position. (When measuring between lifelines their taut, undeflected positions shall be taken for this purpose). on a catamaran - lifelines from bow to stern on each hull and transverse lifelines to form an effectively continuous barrier around the working area for man-overboard prevention. The transverse lifelines shall be attached to bow and stern pulpits or superstructure. A webbing, strop or rope (minimum diameter 6mm) shall be rove zig-zag between the transverse lifelines and the net.	Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4
	a) b) c)	Multihulls The following shall be provided:- on a trimaran - a bow pulpit on the main hull, with lifelines around the main hull supported on stanchions. The lifelines may be interrupted where there are nets or crossbeam wings outboard of the main hull on a trimaran - where a net joins the base of a bow pulpit on the main hull, an additional lifeline from the top of the pulpit to the forward crossbeam at or outboard of the crossbeam mid-point. on a trimaran - at a main or emergency steering position on an outrigger with or without a cockpit, lifelines protecting an arc of 3 meters diameter centred on the steering position. (When measuring between lifelines their taut, undeflected positions shall be taken for this purpose). on a catamaran - lifelines from bow to stern on each hull and transverse lifelines to form an effectively continuous barrier around the working area for man-overboard prevention. The transverse lifelines shall be attached to bow and stern pulpits or superstructure. A webbing, strop or rope (minimum diameter 6mm) shall be rove zig-zag between the	Mu0,1,2,3,4 Mu0,1,2,3,4 Mu0,1,2,3,4

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

3.14.6		Diameters, Requ	ired Materials, Spec	ifications		
a)	Lifelines shall be of :				**	
_	 stranded stainl 				**	
	_		PE) (Dyneema®/Spect	ra® or	Mo4,M	u**
	equivalent) rope (Bra				**	
b)	The minimum diamet	-		aca fittina	**	
c)			ed and used without clo	_	71-71-	
	regularly removed for		may be fitted provided	I IL IS		
d)	When stainless wire		s is recommended		**	
e)		•	used, it shall be prote	cted from	Mo4,M	U**
	` .		e with the manufacture			
	recommended proced					
_ f)	A taut lanyard of synt	thetic rope may be	e used to secure lifeline	es provided	**	
	the gap it closes does	not exceed 100	mm (4 in). This lanyard	d shall be		
	replaced annually at a					
g)			ures and lanyards shall	•	**	
			all points at least the b	reaking		
	strength of the requir				**	
	TABLE 8 - Minimum [wire	UMDE rong (Cingle	UMDE Coro (
	LOA	WIIE	HMPE rope (Single braid)	HMPE Core (on braid)	Dialu	
	under 8.5m (28ft)	3mm (1/8 in)	4mm (5/32 in)	4mm (5/32 i	n)	
	8.5m - 13m	4mm (5/32 in)	5mm (3/16 in)	5mm (3/16 ii		
	over 13m (43 ft)	5mm (3/16in)	5mm (3/16in)	5mm (3/16in		
3.15	Multihull Nets or T	. , ,	(0) 20)	(0) = 0	.,	
3.15.1		-	the word "trampoline'	ı	Mu0,1	,2,3,4
	A net shall be:-	J	·		Mu0.1	
a)	essentially horizontal				Mu0,1	,2,3,4
b)			ater permeable fabric,		Mu0,1	,2,3,4
	. —	_	(2 inches) in any dimer			
	-		avoid chafe. The juncti	on between		
c)	a net and a yacht sha	•	or root trapping isverse and longitudina	d cupport	Mu0,1	224
c)	lines and shall be fine		_	ii support	Muo, 1	,∠,১,⊤
d)			v either in normal work	rina	Mu0,1	234
u,	-	_	when the yacht is inve	_	1 100/1	,_,5, .
e)		-	ie the nets should be in		Mu0,1	,2,3,4
	tied and not continuo	ously connected to	more than four attach	nment points		
	per connecting line					
3.15.2	Trimarans with Do					
a)		le crossbeams sha	all have nets on each s	ide		
b)	covering:-	d by the everebeen	ma control bull and ou	triagoro	MuO 1	224
b) c)	_	-	ms, central hull and ou the central pulpit, the r		Mu0,1, Mu0,1,	
C)			section of the crossbea		Muo, 1	,∠,১,⊤
	central hull	am, and the men	section of the crossbet	and the		
d)		by the aftermost i	part of the cockpit or st	teerina	Mu0,1	.2.3.4
,	_		mid-point of each after	-	/	, , - ,
	•		crossbeam and the ce			
	except that:-					
e)	•		not apply when cockp	-	Mu0,1	,2,3,4
	•	-	oly with the minimum h	neight		
0.455	requirements in Table		_			
3.15.3	Trimarans with Sin	_		ha cantural	M. O 1	224
a)	hull and each outrigg	=	all have nets between t	ne central	Mu0,1	,८,১,4
b)			s from the intersection	of the	Mu0,1	234
U)	on cach side between	i two straight lift	5 11 OH 1 111 CH 3CC00H	or tile	i luu, I	,∠,∪,⊤

position on the central hull (whichever is furthest aft) 3.16 **Catamarans** On a catamaran the total net surface shall be limited: laterally by the hulls; and Mu0,1,2,3,4 a) b) longitudinally by transverse stations through the forestay base, and the Mu0,1,2,3,4 aftermost point of the boom lying fore and aft. However, a catamaran with a central nacelle (non-immersed) may satisfy the regulations for a trimaran 3.18 **Toilet** 3.18.2 A toilet, permanently installed or fitted bucket MoMu3,4 3.19 ** Bunks, permanently installed 3.19.2 3.20 **Cooking Facilities** 3.20.1 A cooking stove, permanently installed or securely fastened with safe MoMu0,1,2,3 accessible fuel shutoff control and capable of being safely operated in a seaway. 3.21 **Drinking Water Tanks & Drinking Water** MoMu0,1,2,3 3.21.1 **Drinking Water Tanks** MoMu0,1,2,3 A yacht shall have a permanently installed delivery pump and water MoMu0,1,2,3 a) tank(s): **Emergency Drinking Water** 3.21.3 MoMu0,1,2,3 At least 9 litres (2 UK gallons, 2.4 US gallons) of drinking water for a) MoMu1,2,3 emergency use shall be provided in a dedicated and sealed container or container(s) 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** No bilge pump may discharge into a cockpit unless that cockpit opens aft ** 3.23.1 to the sea. Bilge pumps shall not be connected to cockpit drains. (OSR 3.09) ** 3.23.2 3.23.3 Bilge pumps and strum boxes shall be readily accessible for maintenance ** and for clearing out debris 3.23.4 Unless permanently installed, each bilge pump handle shall be provided ** with a lanyard or catch or similar device to prevent accidental loss The following shall be provided: 3.23.5 c) multihulls shall have provision to pump out all watertight compartments Mu0,1,2,3,4 (except those filled with impermeable buoyancy). f) two buckets of stout construction each with at least 9 litres (2 UK gallons, ** 2.4 US gallons) capacity. Each bucket to have a lanyard. 3.24 **Compass** 3.24.1 The following shall be provided:-** a marine magnetic compass, independent of any power supply, a) permanently installed and correctly adjusted with deviation card, and a magnetic compass independent of any power supply, capable of being b) MoMu0,1,2,3 used 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. ** 3.27 **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 3.27.2 no less height than immediately under the upper lifeline.

3.27.3

Navigation light intensity

TABLE 11

crossbeam and the outrigger, respectively to the aft end of the pulpit on the central hull, and to the aftermost point of the cockpit or steering

	LOA	Guide to required minimum power rating for an	
		electric bulb in a navigation light	
	under 12 m (39.4 ft)	10 W	
	12 m (39.4 ft) and above	25 W	
3.27.4	Reserve navigation lights	shall be carried having the same minimum	MoMu0,1,2,3
	specifications as the navigation lights above, with a separable power		
	source, and wiring or sur	oply system essentially separate from that used	
	for the normal navigation		
3.27.5		n lights shall be carried, or for lights not	**
0.2	dependent on bulbs, app		
3.28	Engines, Generators, I	·	
3.28.1	Propulsion Engines	i dei	**
a)		systems shall be installed in accordance with their	**
a)			
		s and shall be of a type, strength, capacity, and	
LX		ne size and intended use of the yacht.	**
b)		igine when fitted shall: be provided with a	
	•	haust, coolant, and fuel supply systems and fuel	
		ered; and have adequate protection from the	
	effects of heavy weather		
c)		ired by Special Regulations shall provide a	MoMu0,1,2,3
	minimum speed in knots	of (1.8 x square root of LWL in metres) or	
	(square root of LWL in fe	eet)	
f)	Boats of less than 12.0 m	n hull length may be provided with an inboard	Mu1,2,3
	propulsion engine, or an	outboard engine together with permanently	
	installed fuel supply syste	ems and fuel tank(s) may be used as an	
	alternative.	, , ,	
3.28.2	Generator		
	A separate generator for	electricity is optional. However, when a separate	**
		all be permanently installed, securely covered,	
	_	ntly installed exhaust, cooling and fuel supply	
	•	•	
	systems and fuel tank(s)	, and have adequate protection from the effects	
3.28.3	systems and fuel tank(s) of heavy weather.	•	
3.28.3	systems and fuel tank(s) of heavy weather. Fuel Systems	, and have adequate protection from the effects	ΜοΜιιΩ 1 2 3
3.28.3 a)	systems and fuel tank(s) of heavy weather. Fuel Systems Each fuel tank provided v	, and have adequate protection from the effects with a shutoff valve. Except for permanently	MoMu0,1,2,3
a)	systems and fuel tank(s), of heavy weather. Fuel Systems Each fuel tank provided vinstalled linings or liners,	with a shutoff valve. Except for permanently a flexible tank is not permitted as a fuel tank.	
	systems and fuel tank(s), of heavy weather. Fuel Systems Each fuel tank provided vinstalled linings or liners, The propulsion engine sh	with a shutoff valve. Except for permanently a flexible tank is not permitted as a fuel tank. all have a minimum amount of fuel which may	MoMu0,1,2,3 MoMu0,1,2,3
a)	systems and fuel tank(s), of heavy weather. Fuel Systems Each fuel tank provided vinstalled linings or liners, The propulsion engine shot be specified in the Notice	with a shutoff valve. Except for permanently a flexible tank is not permitted as a fuel tank. nall have a minimum amount of fuel which may of Race but if not, shall be sufficient to be able	
a)	systems and fuel tank(s), of heavy weather. Fuel Systems Each fuel tank provided vinstalled linings or liners, The propulsion engine ship be specified in the Notice to meet charging require	with a shutoff valve. Except for permanently a flexible tank is not permitted as a fuel tank. nall have a minimum amount of fuel which may of Race but if not, shall be sufficient to be able ments for the duration of the race and to motor	
a) b)	systems and fuel tank(s), of heavy weather. Fuel Systems Each fuel tank provided vinstalled linings or liners, The propulsion engine shoe specified in the Notice to meet charging require at the above minimum specified.	with a shutoff valve. Except for permanently a flexible tank is not permitted as a fuel tank. nall have a minimum amount of fuel which may of Race but if not, shall be sufficient to be able ments for the duration of the race and to motor	
a) b) 3.28.4	systems and fuel tank(s) of heavy weather. Fuel Systems Each fuel tank provided vinstalled linings or liners, The propulsion engine shoe specified in the Notice to meet charging require at the above minimum spattery Systems	with a shutoff valve. Except for permanently a flexible tank is not permitted as a fuel tank. nall have a minimum amount of fuel which may of Race but if not, shall be sufficient to be able ments for the duration of the race and to motor peed for at least 8 hours	MoMu0,1,2,3
a) b)	systems and fuel tank(s), of heavy weather. Fuel Systems Each fuel tank provided vinstalled linings or liners, The propulsion engine shoe specified in the Notice to meet charging require at the above minimum spattery Systems When an electric starter	with a shutoff valve. Except for permanently a flexible tank is not permitted as a fuel tank. Hall have a minimum amount of fuel which may e of Race but if not, shall be sufficient to be able ments for the duration of the race and to motor beed for at least 8 hours	
a) b) 3.28.4	systems and fuel tank(s), of heavy weather. Fuel Systems Each fuel tank provided vinstalled linings or liners, The propulsion engine shoe specified in the Notice to meet charging require at the above minimum spattery Systems When an electric starter yacht shall have a separate	with a shutoff valve. Except for permanently a flexible tank is not permitted as a fuel tank. nall have a minimum amount of fuel which may of Race but if not, shall be sufficient to be able ments for the duration of the race and to motor peed for at least 8 hours	MoMu0,1,2,3
a) b) 3.28.4 a)	systems and fuel tank(s), of heavy weather. Fuel Systems Each fuel tank provided winstalled linings or liners, The propulsion engine shoe specified in the Notice to meet charging require at the above minimum spattery Systems When an electric starter yacht shall have a separa start the engine	with a shutoff valve. Except for permanently a flexible tank is not permitted as a fuel tank. all have a minimum amount of fuel which may of Race but if not, shall be sufficient to be able ments for the duration of the race and to motor beed for at least 8 hours is the only method for starting the engine, the ate battery, the primary purpose of which is to	MoMu0,1,2,3 MoMu0,1,2,3
a) b) 3.28.4	systems and fuel tank(s), of heavy weather. Fuel Systems Each fuel tank provided vinstalled linings or liners, The propulsion engine ship be specified in the Notice to meet charging require at the above minimum spattery Systems When an electric starter yacht shall have a separa start the engine All rechargeable batteries	with a shutoff valve. Except for permanently a flexible tank is not permitted as a fuel tank. all have a minimum amount of fuel which may of Race but if not, shall be sufficient to be able ments for the duration of the race and to motor peed for at least 8 hours is the only method for starting the engine, the ate battery, the primary purpose of which is to so on board shall be of the sealed type from which	MoMu0,1,2,3
a) b) 3.28.4 a)	systems and fuel tank(s), of heavy weather. Fuel Systems Each fuel tank provided vinstalled linings or liners, The propulsion engine shoe specified in the Notice to meet charging require at the above minimum spattery Systems When an electric starter yacht shall have a separa start the engine All rechargeable batteries liquid electrolyte cannot engine	with a shutoff valve. Except for permanently a flexible tank is not permitted as a fuel tank. It is no	MoMu0,1,2,3 MoMu0,1,2,3
a) b) 3.28.4 a) b)	systems and fuel tank(s), of heavy weather. Fuel Systems Each fuel tank provided winstalled linings or liners, The propulsion engine shoe specified in the Notice to meet charging require at the above minimum sp. Battery Systems When an electric starter syacht shall have a separated start the engine All rechargeable batteries liquid electrolyte cannot of at 1/12 may continue in the systems.	with a shutoff valve. Except for permanently a flexible tank is not permitted as a fuel tank. In all have a minimum amount of fuel which may be of Race but if not, shall be sufficient to be able ments for the duration of the race and to motor beed for at least 8 hours is the only method for starting the engine, the late battery, the primary purpose of which is to so no board shall be of the sealed type from which escape. Other types of battery installed on board use for the remainder of their service lives.	MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3
a) b) 3.28.4 a)	systems and fuel tank(s), of heavy weather. Fuel Systems Each fuel tank provided winstalled linings or liners, The propulsion engine shoe specified in the Notice to meet charging require at the above minimum spattery Systems When an electric starter yacht shall have a separa start the engine All rechargeable batteries liquid electrolyte cannot at 1/12 may continue in Communications Equi	with a shutoff valve. Except for permanently a flexible tank is not permitted as a fuel tank. It is no	MoMu0,1,2,3 MoMu0,1,2,3
a) b) 3.28.4 a) b)	systems and fuel tank(s), of heavy weather. Fuel Systems Each fuel tank provided vinstalled linings or liners, The propulsion engine ship be specified in the Notice to meet charging require at the above minimum spattery Systems When an electric starter yacht shall have a separa start the engine All rechargeable batteries liquid electrolyte cannot out 1/12 may continue in Communications Equi System), Radar, AIS	with a shutoff valve. Except for permanently a flexible tank is not permitted as a fuel tank. nall have a minimum amount of fuel which may of Race but if not, shall be sufficient to be able ments for the duration of the race and to motor beed for at least 8 hours is the only method for starting the engine, the ate battery, the primary purpose of which is to so on board shall be of the sealed type from which escape. Other types of battery installed on board use for the remainder of their service lives.	MoMu0,1,2,3 MoMu0,1,2,3 **
a) b) 3.28.4 a) b)	systems and fuel tank(s), of heavy weather. Fuel Systems Each fuel tank provided winstalled linings or liners, The propulsion engine shoe specified in the Notice to meet charging require at the above minimum sp. Battery Systems When an electric starter syacht shall have a separated start the engine All rechargeable batteries liquid electrolyte cannot at 1/12 may continue in Communications Equipment System), Radar, AIS Provision of GMDSS is un	with a shutoff valve. Except for permanently a flexible tank is not permitted as a fuel tank. In all have a minimum amount of fuel which may be of Race but if not, shall be sufficient to be able ments for the duration of the race and to motor beed for at least 8 hours is the only method for starting the engine, the late battery, the primary purpose of which is to so no board shall be of the sealed type from which escape. Other types of battery installed on board use for the remainder of their service lives. In the late of the sealed type from which escape. Other types of battery installed on board use for the remainder of their service lives. In the late of the sealed type from which escape. Other types of battery installed on board use for the remainder of their service lives. In the late of the sealed type from which escape. Other types of battery installed on board use for the remainder of their service lives. In the late of the sealed type from which escape. Other types of battery installed on board use for the remainder of their service lives. In the late of the sealed type from which escape. Other types of battery installed on board use for the remainder of their service lives. In the late of the sealed type from which escape.	MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3
a) b) 3.28.4 a) b) 3.29	systems and fuel tank(s), of heavy weather. Fuel Systems Each fuel tank provided winstalled linings or liners, The propulsion engine shoe specified in the Notice to meet charging require at the above minimum spattery Systems When an electric starter yacht shall have a separa start the engine All rechargeable batteries liquid electrolyte cannot at 1/12 may continue in Communications Equi System), Radar, AIS Provision of GMDSS is unterm of the present Special	with a shutoff valve. Except for permanently a flexible tank is not permitted as a fuel tank. It is no	MoMu0,1,2,3 MoMu0,1,2,3 ** MoMu0,1,2,3
a) b) 3.28.4 a) b)	systems and fuel tank(s), of heavy weather. Fuel Systems Each fuel tank provided winstalled linings or liners, The propulsion engine shoe specified in the Notice to meet charging require at the above minimum sp. Battery Systems When an electric starter syacht shall have a separated start the engine All rechargeable batteries liquid electrolyte cannot at 1/12 may continue in Communications Equipment System), Radar, AIS Provision of GMDSS is un	with a shutoff valve. Except for permanently a flexible tank is not permitted as a fuel tank. It is no	MoMu0,1,2,3 MoMu0,1,2,3 **
a) b) 3.28.4 a) b) 3.29	systems and fuel tank(s), of heavy weather. Fuel Systems Each fuel tank provided winstalled linings or liners, The propulsion engine shoe specified in the Notice to meet charging require at the above minimum sp. Battery Systems When an electric starter wacht shall have a separated start the engine All rechargeable batteries liquid electrolyte cannot at 1/12 may continue in Communications Equipment System), Radar, AIS Provision of GMDSS is unterm of the present Specified transceived.	with a shutoff valve. Except for permanently a flexible tank is not permitted as a fuel tank. It is no	MoMu0,1,2,3 MoMu0,1,2,3 ** MoMu0,1,2,3
a) b) 3.28.4 a) b) 3.29	systems and fuel tank(s), of heavy weather. Fuel Systems Each fuel tank provided winstalled linings or liners, The propulsion engine ship be specified in the Notice to meet charging require at the above minimum spattery Systems When an electric starter yacht shall have a separa start the engine All rechargeable batteries liquid electrolyte cannot at 1/12 may continue in Communications Equipment System), Radar, AIS Provision of GMDSS is unterm of the present Specific The following shall be provided to the system of the present Specific System of th	with a shutoff valve. Except for permanently a flexible tank is not permitted as a fuel tank. all have a minimum amount of fuel which may of Race but if not, shall be sufficient to be able ments for the duration of the race and to motor beed for at least 8 hours is the only method for starting the engine, the ate battery, the primary purpose of which is to so on board shall be of the sealed type from which escape. Other types of battery installed on board use for the remainder of their service lives. pment, EPFS (Electronic Position-Fixing the cial Regulations. ovided:	MoMu0,1,2,3 MoMu0,1,2,3 ** MoMu0,1,2,3 **
a) b) 3.28.4 a) b) 3.29	systems and fuel tank(s), of heavy weather. Fuel Systems Each fuel tank provided winstalled linings or liners, The propulsion engine shoe specified in the Notice to meet charging require at the above minimum sp. Battery Systems When an electric starter yacht shall have a separate start the engine All rechargeable batteries liquid electrolyte cannot at 1/12 may continue in Communications Equi System), Radar, AIS Provision of GMDSS is unterm of the present Special The following shall be proposed and transceives satcom terminal), and	with a shutoff valve. Except for permanently a flexible tank is not permitted as a fuel tank. all have a minimum amount of fuel which may of Race but if not, shall be sufficient to be able ments for the duration of the race and to motor beed for at least 8 hours is the only method for starting the engine, the ate battery, the primary purpose of which is to so on board shall be of the sealed type from which escape. Other types of battery installed on board use for the remainder of their service lives. pment, EPFS (Electronic Position-Fixing the cial Regulations. ovided:	MoMu0,1,2,3 MoMu0,1,2,3 ** MoMu0,1,2,3 **
a) b) 3.28.4 a) b) 3.29 3.29.1 a)	systems and fuel tank(s), of heavy weather. Fuel Systems Each fuel tank provided winstalled linings or liners, The propulsion engine shoe specified in the Notice to meet charging require at the above minimum sp. Battery Systems When an electric starter yacht shall have a separate start the engine All rechargeable batteries liquid electrolyte cannot at 1/12 may continue in Communications Equi System), Radar, AIS Provision of GMDSS is unterm of the present Special The following shall be proposed and transceives satcom terminal), and	with a shutoff valve. Except for permanently a flexible tank is not permitted as a fuel tank. It is no	MoMu0,1,2,3 MoMu0,1,2,3 ** MoMu0,1,2,3 ** MoMu0,1,2,3
a) b) 3.28.4 a) b) 3.29 3.29.1 a)	systems and fuel tank(s), of heavy weather. Fuel Systems Each fuel tank provided winstalled linings or liners, The propulsion engine shoe specified in the Notice to meet charging require at the above minimum spattery Systems When an electric starter yacht shall have a separa start the engine All rechargeable batteries liquid electrolyte cannot at 1/12 may continue in Communications Equipment System), Radar, AIS Provision of GMDSS is unterm of the present Special The following shall be proposed and an emergency antenna with the system of the startery and an emergency antenna with the system of the system of the system of the present Special Communication of the pre	with a shutoff valve. Except for permanently a flexible tank is not permitted as a fuel tank. In all have a minimum amount of fuel which may be of Race but if not, shall be sufficient to be able ments for the duration of the race and to motor beed for at least 8 hours are battery, the primary purpose of which is to so no board shall be of the sealed type from which escape. Other types of battery installed on board use for the remainder of their service lives. In present, EPFS (Electronic Position-Fixing) In likely to be mandatory for small craft during the beial Regulations. In ovided: In or if stated in the Notice of Race, an installed when the regular antenna depends upon the	MoMu0,1,2,3 MoMu0,1,2,3 ** MoMu0,1,2,3 ** MoMu0,1,2,3
a) b) 3.28.4 a) b) 3.29 3.29.1 a) i	systems and fuel tank(s), of heavy weather. Fuel Systems Each fuel tank provided winstalled linings or liners, The propulsion engine shoe specified in the Notice to meet charging require at the above minimum spattery Systems When an electric starter yacht shall have a separa start the engine All rechargeable batteries liquid electrolyte cannot at 1/12 may continue in Communications Equipment System), Radar, AIS Provision of GMDSS is unterm of the present Special The following shall be proposed and an emergency antenna winast.	with a shutoff valve. Except for permanently a flexible tank is not permitted as a fuel tank. It is not permitted as a fuel tank and have a minimum amount of fuel which may be of Race but if not, shall be sufficient to be able ments for the duration of the race and to motor beed for at least 8 hours are battery, the primary purpose of which is to so no board shall be of the sealed type from which the escape. Other types of battery installed on board use for the remainder of their service lives. It is present, the mandatory for small craft during the color of the regulations. The escape is the notice of Race, an installed when the regular antenna depends upon the ransceiver is VHF:	MoMu0,1,2,3 MoMu0,1,2,3 ** MoMu0,1,2,3 ** MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3

Guide to required minimum power rating for an

LOA

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) -	MoMu0,1,2,3
	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 common use, has become widely accepted as primary choice for ocean	МоМи0,1,2,3
٧	racing yachts anywhere in the world) 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 (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	MoMu1,2,3
e)	DSC position report with another DSC equipped station A hand-held marine VHF transceiver, watertight or with a waterproof	MoMu1,2,3,4
<i>e)</i>	cover. When not in use to be stowed in a grab bag or emergency container (see OSR 4.21) The handheld receiver should have Digital Selective Calling (DSC) and be equipped with GPS.	11011u1,2,3, 1
f)	Independent of a main radio transceiver, a radio receiver capable of	**
	receiving weather bulletins	M M 0 4 2 2
i) <i>o)</i>	An EPFS (Electronic Position-Fixing System) (e.g. GPS) An AIS Transponder is recommended	MoMu0,1,2,3 <i>MoMu3</i>
3.29.2	Yachts are reminded that no reflector, active or passive, is a guarantee of	**
a)	detection or tracking by a vessel using radar. The attention of persons in charge is drawn to legislation in force or	**
uj	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.	
C=C=T		
	N 4 - PORTABLE EQUIPMENT & SUPPLIES for the yacht	
(for wa	N 4 - PORTABLE EQUIPMENT & SUPPLIES for the yacht ter & fuel see OSR 3.21 and OSR 3.28)	
(for wa 4.01	N 4 - PORTABLE EQUIPMENT & SUPPLIES for the yacht	**
(for wa 4.01	N 4 - PORTABLE EQUIPMENT & SUPPLIES for the yacht ter & fuel see OSR 3.21 and OSR 3.28) Sail Letters & Numbers 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	**
(for wa 4.01 4.01.1	N 4 - PORTABLE EQUIPMENT & SUPPLIES for the yacht ter & fuel see OSR 3.21 and OSR 3.28) Sail Letters & Numbers 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.	
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(for wa 4.01 4.01.1 4.01.2	N 4 - PORTABLE EQUIPMENT & SUPPLIES for the yacht ter & fuel see OSR 3.21 and OSR 3.28) Sail Letters & Numbers 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. 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.	**
(for wa 4.01 4.01.1	N 4 - PORTABLE EQUIPMENT & SUPPLIES for the yacht ter & fuel see OSR 3.21 and OSR 3.28) Sail Letters & Numbers 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. Sail numbers and letters of the size carried on the mainsail must be	
(for wa 4.01 4.01.1 4.01.2 4.02	N 4 - PORTABLE EQUIPMENT & SUPPLIES for the yacht ter & fuel see OSR 3.21 and OSR 3.28) Sail Letters & Numbers 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. 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. Hull marking (colour blaze) To assist in SAR location:- Multihulls shall show on the underside, where they can be seen when	**
(for wa 4.01 4.01.1 4.01.2 4.02 4.02.1	N 4 - PORTABLE EQUIPMENT & SUPPLIES for the yacht ter & fuel see OSR 3.21 and OSR 3.28) Sail Letters & Numbers 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. 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. Hull marking (colour blaze) To assist in SAR location:- Multihulls shall show on the underside, where they can be seen when inverted, an solid area of highly-visible colour (e.g. Day-Glo pink, orange,	** Mo0,1,Mu0,1,2,3,4
(for wa 4.01 4.01.1 4.01.2 4.02 4.02.1 4.02.2	N 4 - PORTABLE EQUIPMENT & SUPPLIES for the yacht ter & fuel see OSR 3.21 and OSR 3.28) Sail Letters & Numbers 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. 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. Hull marking (colour blaze) To assist in SAR location:- Multihulls shall show on the underside, where they can be seen when inverted, an solid area of highly-visible colour (e.g. Day-Glo pink, orange, or yellow) of at least 1m^2	** Mo0,1,Mu0,1,2,3,4
(for wa 4.01 4.01.1 4.01.2 4.02 4.02.1	N 4 - PORTABLE EQUIPMENT & SUPPLIES for the yacht ter & fuel see OSR 3.21 and OSR 3.28) Sail Letters & Numbers 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. 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. Hull marking (colour blaze) To assist in SAR location:- Multihulls shall show on the underside, where they can be seen when inverted, an solid area of highly-visible colour (e.g. Day-Glo pink, orange, or yellow) of at least 1m^2 Soft Wood Plugs	** Mo0,1,Mu0,1,2,3,4
(for wa 4.01 4.01.1 4.01.2 4.02 4.02.1 4.02.2	N 4 - PORTABLE EQUIPMENT & SUPPLIES for the yacht ter & fuel see OSR 3.21 and OSR 3.28) Sail Letters & Numbers 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. 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. Hull marking (colour blaze) To assist in SAR location:- Multihulls shall show on the underside, where they can be seen when inverted, an solid area of highly-visible colour (e.g. Day-Glo pink, orange, or yellow) of at least 1m^2	** Mo0,1,Mu0,1,2,3,4 Mu0,1,2,3,4
(for wa 4.01 4.01.1 4.01.2 4.02 4.02.1 4.02.2 4.03	NA - PORTABLE EQUIPMENT & SUPPLIES for the yacht ter & fuel see OSR 3.21 and OSR 3.28) Sail Letters & Numbers 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. 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. Hull marking (colour blaze) To assist in SAR location:- Multihulls shall show on the underside, where they can be seen when inverted, an solid area of highly-visible colour (e.g. Day-Glo pink, orange, or yellow) of at least 1m^2 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	** Mo0,1,Mu0,1,2,3,4 Mu0,1,2,3,4 **
(for wa 4.01 4.01.1 4.01.2 4.02 4.02.1 4.02.2 4.03 4.04 4.04.1	ter & fuel see OSR 3.21 and OSR 3.28) Sail Letters & Numbers 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. 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. Hull marking (colour blaze) To assist in SAR location:- Multihulls shall show on the underside, where they can be seen when inverted, an solid area of highly-visible colour (e.g. Day-Glo pink, orange, or yellow) of at least 1m^2 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 Jackstays shall be provided-	** Mo0,1,Mu0,1,2,3,4 Mu0,1,2,3,4 ** MoMu0,1,2,3
(for wa 4.01 4.01.1 4.01.2 4.02 4.02.1 4.02.2 4.03	NA - PORTABLE EQUIPMENT & SUPPLIES for the yacht ter & fuel see OSR 3.21 and OSR 3.28) Sail Letters & Numbers 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. 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. Hull marking (colour blaze) To assist in SAR location:- Multihulls shall show on the underside, where they can be seen when inverted, an solid area of highly-visible colour (e.g. Day-Glo pink, orange, or yellow) of at least 1m^2 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 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	** Mo0,1,Mu0,1,2,3,4 Mu0,1,2,3,4 **
(for wa 4.01 4.01.1 4.01.2 4.02 4.02.1 4.02.2 4.03 4.04 4.04.1 a)	Sail Letters & Numbers 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. 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. Hull marking (colour blaze) To assist in SAR location:- Multihulls shall show on the underside, where they can be seen when inverted, an solid area of highly-visible colour (e.g. Day-Glo pink, orange, or yellow) of at least 1m^2 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 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:-	** Mo0,1,Mu0,1,2,3,4 Mu0,1,2,3,4 ** MoMu0,1,2,3 MoMu0,1,2,3
(for wa 4.01 4.01.1 4.01.2 4.02 4.02.1 4.02.2 4.03 4.04 4.04.1	NA - PORTABLE EQUIPMENT & SUPPLIES for the yacht ter & fuel see OSR 3.21 and OSR 3.28) Sail Letters & Numbers 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. 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. Hull marking (colour blaze) To assist in SAR location:- Multihulls shall show on the underside, where they can be seen when inverted, an solid area of highly-visible colour (e.g. Day-Glo pink, orange, or yellow) of at least 1m^2 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 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)	** Mo0,1,Mu0,1,2,3,4 Mu0,1,2,3,4 ** MoMu0,1,2,3
(for wa 4.01 4.01.1 4.01.2 4.02 4.02.1 4.02.2 4.03 4.04 4.04.1 a)	Sail Letters & Numbers 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. 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. Hull marking (colour blaze) To assist in SAR location:- Multihulls shall show on the underside, where they can be seen when inverted, an solid area of highly-visible colour (e.g. Day-Glo pink, orange, or yellow) of at least 1m^2 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 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	** Mo0,1,Mu0,1,2,3,4 Mu0,1,2,3,4 ** MoMu0,1,2,3 MoMu0,1,2,3
(for wa 4.01 4.01.1 4.01.2 4.02 4.02.1 4.02.2 4.03 4.04 4.04.1 a)	NA - PORTABLE EQUIPMENT & SUPPLIES for the yacht ter & fuel see OSR 3.21 and OSR 3.28) Sail Letters & Numbers 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. 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. Hull marking (colour blaze) To assist in SAR location:- Multihulls shall show on the underside, where they can be seen when inverted, an solid area of highly-visible colour (e.g. Day-Glo pink, orange, or yellow) of at least 1m^2 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 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)	** Mo0,1,Mu0,1,2,3,4 Mu0,1,2,3,4 ** MoMu0,1,2,3 MoMu0,1,2,3
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(for wa 4.01 4.01.1 4.01.2 4.02 4.02.1 4.02.2 4.03 4.04 4.04.1 a)	ter & fuel see OSR 3.21 and OSR 3.28) Sail Letters & Numbers 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. 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. Hull marking (colour blaze) To assist in SAR location:- Multihulls shall show on the underside, where they can be seen when inverted, an solid area of highly-visible colour (e.g. Day-Glo pink, orange, or yellow) of at least 1m^2 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 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	** Mo0,1,Mu0,1,2,3,4 Mu0,1,2,3,4 ** MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3
(for wa 4.01 4.01.1 4.01.2 4.02.1 4.02.2 4.03 4.04 4.04.1 a) b)	ter & fuel see OSR 3.21 and OSR 3.28) Sail Letters & Numbers 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. 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. Hull marking (colour blaze) To assist in SAR location:- Multihulls shall show on the underside, where they can be seen when inverted, an solid area of highly-visible colour (e.g. Day-Glo pink, orange, or yellow) of at least 1m^2 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 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;	** Mo0,1,Mu0,1,2,3,4 Mu0,1,2,3,4 ** MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3

case of inversion.
Clipping Points:

4.09

Foghorn

4.04.2	clipping Points:-	
,	shall be provided-	
a)	attached to through-bolted or welded deck plates or other suitable and	MoMu0,1,2,3
	strong anchorage points adjacent to stations such as the helm, sheet	
	winches and masts, where crew members work for long periods:-	
b)	which, together with jackstays and static safety lines shall enable a crew	MoMu0,1,2,3
	member-	
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	MoMu0,1,2,3
	areas on deck and the cockpit(s) with the minimum of clipping and	
	unclipping operations.	
c)	The provision of clipping points shall enable two-thirds of the crew to be	MoMu0,1,2,3
٠,	simultaneously clipped on without depending on jackstays	1 101 140/1/2/3
d)	In a trimaran with a rudder on the outrigger, adequate clipping points	Mu0,1,2,3
u)	shall be provided that are not part of the deck gear or the steering	1140,1,2,3
	· · · · · · · · · · · · · · · · · · ·	
	mechanism, in order that the steering mechanism can be reached by a	
-1	crew member whilst clipped on.	M-M.O 1 2 2
e)	Warning - U-bolts as clipping points - see OSR 5.02.1(a)	MoMu0,1,2,3
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	MoMu0,1,2,3
	equivalent	
4.05.4	A fire blanket adjacent to every cooking device with an open flame	**
4.06	Anchor(s)	
4.06.1	An anchor or anchors shall be carried according to the table below:	**
a)	The following anchors shall be provided	
i	For yachts of 8.5 m LOA (28 ft) and over there shall be 2 anchors	MoMu1,2,3
•	together with a suitable combination of chain and rope, all ready for	1 101 141/2/0
	immediate use	
ii	For yachts under 8.5 m LOA (28 ft) there shall be 1 anchor together with	MoMu1,2,3
"	a suitable combination of chain and rope, all ready for immediate use	1 101 141,2,3
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	ጥጥ
	person overboard at night and for collision avoidance with spare batteries	
	and bulbs, and	dede
b)	a watertight flashlight with spare batteries and bulb	**
c)	for Mu3,4 the watertight flashlight in OSR 4.07.1 (b) shall be stowed in	Mu3,4
	the grab bag or emergency container	
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:-	
<i>b)</i>	First Aid at Sea, by Douglas Justins and Colin Berry, published by Adlard	MoMu2,3,4
	Coles Nautical, London	, ,
c)	Le Guide de la medecine a distance, by Docteur J Y Chauve, published by	**
-)	Distance Assistance BP33 F-La Baule, cedex, France.	
d)	'PAN-PAN medico a bordo' in Italian edited by Umberto Verna.	MoMu2,3,4
4)	www.panpan.it	, 101 102,5, 1
۵)		**
e)	Skipper's Medical Emergency Handbook by Dr Spike Briggs and Dr	•
4 00 2	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	イイ
	of the Manual carried, the likely conditions and duration of the passage,	
	and the number of people aboard the vacht	

4.10	A foghorn shall be provided Radar Reflector				**	
4.10.1	A passive radar reflector shall be carried with:				**	
1.10.1	Octahederal circular sector plates of minimum diameter 300 mm (12") or					
	Octahederal rectangular plates of minimum diagonal di					
	(16") or					
	a non-Octahederal reflector with a documented Root M	ean Squ	ıare			
	minimum Radar Cross Section (RCS) area of 2 m2 from			s in		
	azimuth and +/- 20 degrees in heel.		_			
4.11	Navigation Equipment					
4.11.1	Charts					
	Navigational charts (not solely electronic), light list and	chart p	lotting		**	
	equipment shall be provided					
4.12	Safety Equipment Location Chart				ala da	
	A safety equipment location chart in durable waterproo				**	
	displayed in the main accommodation where it can best			'ly		
4.42	marked with the location of principal items of safety eq	uipmen	t.			
4.13	Echo Sounder or Lead Line				Ma	M1 2 2 4
4.13.1 4.14	An echo sounder or lead line shall be provided	(log)			MO	Mu1,2,3,4
4.14	Speedometer or Distance Measuring Instrument A speedometer or distance measuring instrument (log)		nrovid	od	Мо	Mu0,1,2,3
4.15	Emergency Steering	Silali De	provid	Cu	110	111U,1,2,3
4.15.1	Emergency steering shall be provided as follows:					
a)	except when the principal method of steering is by mea	ns of a	n		Mο	Mu0,1,2,3
۵,	unbreakable metal tiller, an emergency tiller capable of			the	0	,_,_,
	rudder stock;		iccou co			
b)	crews must be aware of alternative methods of steering	the ya	cht in a	iny	Мо	Mu0,1,2,3
,	sea condition in the event of rudder loss. At least one n					, , ,
	been proven to work on board the yacht. An inspector	may rec	uire tha	at		
	this method be demonstrated.					
4.16	Tools and Spare Parts					
	Tools and spare parts, including effective means to quid	•	connect	or	**	
	sever the standing rigging from the hull shall be provided.					
4.17	Yacht's name				**	
	Yacht's name shall be on miscellaneous buoyant equipm		ıcn as		<u>ተ</u>	
4.18	lifejackets, cushions, lifebuoys, lifeslings, grab bags etc	•				
4.18	Marine grade retro-reflective material Marine grade retro-reflective material shall be fitted to	lifobuov			**	
	lifeslings, liferafts and lifejackets. See OSRs 5.04, 5.08.	liebuoy	5,			
4.20	Liferafts				Mo	Mu0,1,2
4.20.1	Liferaft Construction and Packed Equipment				1-10	,1-1d0,1,2
a)	One or more inflatable liferafts shall be provided with a	total ca	pacity	to	Мо	Mu1,2
,	accommodate at least the total number of people on bo		,			,
b)	Each liferaft provided shall comply with either:-					
i	SOLAS LSA code 1997 Chapter IV or later version, or				Мо	Mu1,2
ii	ISO 9650-1:2005, Part I, Type I, Group A or				Мо	Mu1,2
iii	ISAF liferaft manufactured before 01/16 until replacement is due at end			ıd	Мо	Mu1,2
	of serviceable life, or					
iv	ORC liferaft manufactured before the end 01/03 until re	eplacem	ent is c	lue	Мо	Mu1,2
	at end of serviceable life.					
4.20.2	Minimum Liferaft Equipment					
a)	A SOLAS liferaft shall contain as a minimum a SOLAS A pack; MuMo0,1,2					
d)	The minimum contents of the ISO liferaft equipment packs are listed MoMu1,2			MU1,2		
	below. Not all items are necessarily packed within the li					
	are permitted to be carried within an accompanying wa	rei bi.00	ı yrab t	лаy		
	which shall be in a readily accessible location: TABLE 14					
	Equipment	Pack	Pack	In		In
	Equipment	1	2	lifera	aft	liferaft
	<u> </u>				-	

				or in
	> 24b	< 24b		or in
Doubelle busyant below anally anaroble by band	24h 1	24h 1	V	grab bag
Portable buoyant baler easily operable by hand	_		X	
Sponge	2	1	X	
Pair of buoyant paddles with handles (not mitts) tied	1	1	X	
into raft adjacent to an entrance	4	0		
First-Aid Kit including at least 2 tubes of sunscreen.	1	0		X
All dressings must be capable of being effectively				
used in wet conditions. The first aid kit shall be				
clearly marked and shall be re-sealable.	4	-	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
Whistle	1	1	X	
Waterproof torch with 6 h duration and separate	2	1	X	
battery and bulb or complementary torch				
Signalling mirror	1	1	Х	
Anti-seasickness pills, per person	6	6		Χ
Seasickness bag with simple effective closure	1	1		X
system, per person				
Red hand flares in accordance with SOLAS LSA Code	6	3	3 min	Χ
Chapter III, 3.2				
Red parachute flares in accordance with SOLAS LSA	2	2	1 min	Χ
Code Chapter III, 3.1				
Thermal protective aids in accordance with SOLAS	2	0		Χ
LSA Code Chapter III, 2.5				
Repair outfit to enable survivors to repair leaks in	1	1	X	
any or all of the inflatable compartments. Repair				
systems must work when wet and be capable of				
being applied during violent motion.				
Air pump or bellows which shall be simple, robust	1	1	X	
and complete, with all necessary connections (loose				
parts shall be captive to the main apparatus) ready				
for instant use to enable air to be pumped into any				
or all of the inflatable compartments. The air pump				
or bellows shall be designed and built specifically for				
easy operation by hand				
Drinking water per person, in containers of each not	1.5 L	0	0.5 L	Xa
more than 500mL				
Food per person	10	0		X
	000			
	kJ			
* Drinking water in the grab bag (if any) may be				
replaced with a desalinator device				

4.20.3 Liferaft Packing and Stowage

Fach liferaft shall be nacked either in:-

MoMu0,1,2 MoMu0,1,2

u)	Each merare shan be packed citrici ini	1 101 100,1,2
i	a rigid container securely stowed on the working deck, in the cockpit or in	MoMu0,1,2
	an open space; or:-	

- ii a rigid container or valise securely stowed in a dedicated weather tight locker containing liferaft and abandon ship equipment only which is readily accessible and opens onto the cockpit or working deck, or transom
- b) In a yacht with age or series date before June 2001, a liferaft may be packed in a valise not exceeding 40kg securely stowed below deck adjacent to a companionway.
- c) Liferaft stowage on a multihull and a monohull with moveable ballast shall MoMu0,1,2 be such that each liferaft may be readily removed and launched whether or not the yacht is inverted.
- d) The end of each liferaft painter line should be permanently made fast to a MoMu0,1,2 strong point on board the yacht.

a)	Each raft shall be capable of being got to the lifelines or launched within 15 seconds.	MoMu0,1,2
<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	<i>MoMu0,1,2</i>
4.20.5	Liferaft Servicing	MoMu0,1,2
a)	Liferafts based on type are to be serviced at a service station approved by the manufacturer at the following maximum intervals:	MoMu0,1,2
i 	SOLAS liferafts annually.	
ii iii	ISO 9650 canister packed liferafts no less frequently than every 3 years. ISO 9650 valise packed liferafts no less frequently than 3 years except that hired valise liferafts shall be serviced annually.	
iv v	ISAF liferafts annually ORC liferafts annually	
b)	Servicing certificates (original or a copy) shall be kept on board.	MoMu0,1,2
4.21.2	Grab Bags to Accompany Liferafts	
a)	A yacht is recommended to have for each liferaft, a grab bag with the following 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.	<i>MoMu0,1,2</i>
<i>b)</i>	Note: it is not intended to duplicate in a grab bag items required by other OSRs to be on board the yacht - these recommendations cover only the stowage of those items	MoMu0,1,2
4.21.3	Grab Bag Recommended Contents	
a)	2 red parachute and 2 red hand flares and cyalume-type chemical light sticks (red flares compliant with SOLAS)	MoMu1,2
b)	watertight hand-held EPFS (Electronic Position-Fixing System) (eg GPS) in at least one of the grab bags carried by a yacht	MoMu1,2
<i>c)</i>	SART (Search and Rescue Transponder) in at least one of the grab bags carried by a yacht	MoMu1,2
d)	a combined 406MHz/121.5MHz EPIRB registered to the boat (see OSR 4.19.1) in at least one of the grab bags	MoMu1,2
e)	water in re-sealable containers or a hand-operated desalinator plus containers for water	MoMu1,2
f)	a watertight hand-held marine VHF transceiver plus a spare set of batteries	MoMu0,1,2
g)	a watertight flashlight with spare batteries and bulb	MoMu0,1,2
h)	dry suits or thermal protective aids or survival bags	
i)	second sea anchor for the liferaft (not required if the liferaft has already a spare sea anchor in its pack) (recommended standard ISO 17339) with swivel and >30m line diameter >9.5 mm	MoMu0,1,2
j)	two safety tin openers (if appropriate)	MoMu0,1,2
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 clearly marked and re-sealable.	MoMuÛ,1,2
<i>I)</i>	signalling mirror	MoMu0,1,2
m)	high-energy food (min 10 000kJ per person recommended for Cat Zero)	MoMu0,1,2
n)	nylon string, polythene bags, seasickness tablets (min 6 per person recommended)	MoMu0,1,2
0)	watertight hand-held aviation VHF transceiver (if race area warrants)	MoMu0,1,2
4.22	Lifebuoys	
4.22.1	The following shall be provided within reach of the helmsman and ready for instant use:	**
a)	a lifebuoy with a self-igniting light and a drogue	**
4.22.3	Each inflatable lifebuoy and any automatic device (e.g. pole and flag extended by compressed gas) shall be tested and serviced at intervals in	**
4.22.4	accordance with its manufacturer's instructions. Each lifebuoy or lifesling shall be fitted with marine grade retro-reflective	**

4.22.5		the colour of each lifel	buoy be a safety colour in	**
	the yellow-red range.			
4.23	Pyrotechnic and Light	: Signals		
4.23.1	Pyrotechnic signals shall	be provided conforming	ng 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 III	race
	LSA III 3.1	III 3.2	3.3	category

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4.24 Heaving Line a heaving line shall be provided 15 m - 25 m (50 ft - 75 ft) length readily accessible to cockpit. b) the "throwing sock" type is recommended - see Appendix D c) A lifesling shall be provided ** MoMu0,1,2,3

4.25 Cockpit Knife

A strong, sharp knife, sheathed and securely restrained shall be provided ** readily accessible from the deck or a cockpit.

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4.26 Storm & Heavy Weather Sails

4.26.1 **Design**

a) it is strongly recommended that persons in charge consult their designer and sailmaker to decide the most effective size for storm and heavy weather sails. The purpose of these sails is to provide safe propulsion for the yacht in severe weather -they are not intended as part of the racing inventory. The areas below are maxima. Smaller areas are likely to suit some yachts according to their stability and other characteristics.

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) it is strongly recommended that the storm trysail should either be made **
 of or have a patch of highly visible colour.

4.26.3 Materials

- a) aromatic polyamides, carbon and similar fibres shall not be used in a trysail or storm jib but spectra/dyneema and similar materials are permitted.
- b) 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 The following shall be provided:-

- a) sheeting positions on deck for each storm and heavy-weather sail;
- b) for each storm or heavy-weather jib, a means to attach the luff to the stay, independent of any luff-groove device. A heavy weather jib shall have the means of attachment readily available. A storm jib shall have the means of attachment permanently attached;

 Storm and heavy weather jib areas shall be calculated as:

 (0.255 x luff length x (luff perpendicular + 2 x half width))* To apply to sails made in January 2012 and after.
- c) when a storm trysail is required by OSR 4.26.4 (g) it shall be capable of

**

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MoMu0,1

MoMu2,3

Mo4

Mu4

being sheeted independently of the boom with trysail area not greater than 17.5% mainsail hoist (P) luff length 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) if a storm trysail is required by OSR 4.26.4 (g) the yacht's sail number and letter(s) shall be placed on both sides of the trysail (or on a rotating wing mast as substitute for a trysail) in as large a size as practicable; a heavy-weather jib (or heavy-weather sail in a yacht with no forestay) of

Extract MoMu 3,4

a heavy-weather jib (or heavy-weather sail in a yacht with no forestay) of area not greater than 13.5% height of the foretriangle squared;

MoMu3

either a storm trysail as defined in OSR 4.26.4(c), or mainsail reefing to reduce the luff by at least 40%.

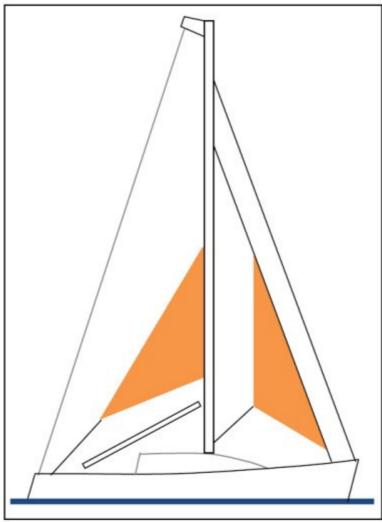


Figure 3
SECTION 5 - PERSONAL EQUIPMENT
5.01 Lifeiacket

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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

396 or UL 1180
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

	/	
17/101	/ICO	1095).
Iノサいし	ししつし	10901

- 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. 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 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,
 j) It is strongly recommended that a lifejacket has a splashguard / MoMu1,2,3,4
 sprayhood See ISO 12402 8,

**

MoMu0,1,2,3

MoMu0,1,2,3

MoMu0,1,2,3

5.01.4 The person in charge shall personally check each lifejacket at least once ** annually.

5.02 Safety Harness and Safety Lines (Tethers)

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.

Harnesses and safety lines manufactured prior to Jan 2010 shall comply with either ISO 12401 or EN 1095.

Harnesses and safety lines manufactured prior to Jan 2001 are not permitted.

a) Warning it is possible for a plain snaphook to disengage from a U MoMu0,1,2,3 bolt if the hook is rotated under load at right-angles to the axis of the U-bolt. For this reason the use of snaphooks with positive locking devices is strongly recommended.

- 5.02.2 At least 30% of the crew shall each, in addition to the above be provided MoMu0,1,2,3 with either:-
- 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 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

 MoMu0,1,2,3
- a) static safety lines should be securely fastened at work stations;
 b) A harness should be fitted with a crotch strap or thigh straps.
 MoMu0,1,2,3
 MoMu0,1,2,3
- c) to draw attention to wear and damage, stitching on harness and safety MoMu0,1,2,3 lines should be of a colour contrasting strongly with the surrounding
- material;
 d) snaphooks should be of a type which will not self-release from a U-bolt MoMu0,1,2,3
 (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); e) a crew member before a race should adjust a harness to fit then retain MoMu0,1,2,3 that harness for the duration of the race. ** 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. 5.04 **Foul Weather Suits** ** it is recommended that a foul weather suit should be fitted with marineb) grade retro-reflective material, and should have high-visibility colours on its upper parts and sleeve cuffs. See OSR 4.18 5.07 **Survival Equipment** Mo0,1,2Mu0,1,2,3,4 It is strongly recommended that an immersion suit should be supplied to 5.07.2 Mu1,2,3,4 each crew member in a multihull in conditions where there is a potential for hypothermia **SECTION 6 - TRAINING Routine Training On-Board** ** 6.04 6.04.1 It is recommended that crews should practice safety routines at reasonable intervals including the drill for man-overboard recovery At least one member of the crew shall be familiar with First Aid 6.05.3 MoMu3,4 procedures, hypothermia, drowning, cardio-pulmonary resuscitation and relevant communications systems (see OSR 6.02.7 and 6.03.3). ** 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

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