ISAF OFFSHORE SPECIAL REGULATIONS

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



Extract for Race Category 3 Monohulls

© ORC Ltd. 2002, all amendments from 2003 © International Sailing Federation, (IOM) Ltd. **Version 2 - 2015**

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

Copyright

When reprinting these regulations National Authorities and Race Organizers should:-

- request copyright permission from ISAF and ORC Ltd (normally given free of charge)
- display a copyright acknowledgement with the reprint (similar to © ORC Ltd. 2002, all amendments from 2003 © International sailing Federation, (IOM) Ltd.)
- make any amendments by deleting contrary provisions and indicating that changes have been made
- supply a copy of the reprint to each of ISAF and ORC Ltd

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.
- 1.02 Responsibility of Person in Charge
- 1.02.1 The safety of a yacht and her crew is the sole and inescapable responsibility of the person in charge who must do his best to ensure that the yacht is fully found, thoroughly seaworthy and manned by an experienced crew who have undergone appropriate training and are physically fit to face bad weather. He must be satisfied as to the soundness of hull, spars, rigging, sails and all gear. He must ensure that all safety equipment is properly maintained and stowed and that the crew know where it is kept and how it is to be used. He shall also nominate a person to take over the responsibilities of the Person in Charge in the event of his incapacitation.
- 1.02.2 Neither the establishment of these Special Regulations, their use by race organizers, nor the inspection of a yacht under these Special Regulations in any way limits or reduces the complete and unlimited responsibility of the person in charge.
- 1.02.3 Decision to race -The responsibility for a yacht's decision to participate in a race or to continue racing is hers alone RRS Fundamental Rule 4.
- 1.03 Definitions, Abbreviations, Word Usage
- 1.03.1 Definitions of Terms used in this document

TABLE 1

I ADLL I	
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 dry
Suit	and maybe either a jacket and trousers worn together, or a
	single garment comprising jacket and trousers.
GMDSS	Global Maritime Distress & Safety System
GNSS	Global Navigation Satellite System
GPIRB	EPIRB, with integral GPS position-fixing
ITU	International Telecommunications Union
GPS	Global Positioning System
Hatch	The term hatch includes the entire hatch assembly and also the
	lid or cover as part of that assembly (the part itself may be
	described as a hatch).
INMARSAT	This is Inmarsat Global Limited, the private company that
	provides GMDSS satellite distress and safety communications,
	plus general communications via voice, fax and data
IMO	International Maritime Organisation
IMSO	The International Mobile Satellite Organisation, the
	independent, intergovernmental organisation that oversees
	Inmarsat's performance of its Public Service Obligations for the
	GMDSS and reports on these to IMO
ISAF	International Sailing Federation.

**

**

**

**

**

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

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

*>

**

**

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

SECTION 2 - APPLICATION & GENERAL REQUIREMENTS

2.01 Categories of Events

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

2.01.4 Category 3

Races across open water, most of which is relatively protected or close to shorelines.

MoMu,3

2.02 Inspection

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

ጥ ጥ

2.03 General Requirements

- 2.03.1 All equipment required by Special Regulations shall:-
- a) function properly

b)		
~ /	be regularly checked, cleaned and serviced	**
c)	when not in use be stowed in conditions in which deterioration is minimised	**
d)	be readily accessible	**
e)	be of a type, size and capacity suitable and adequate for the intended use and	**
,	size of the yacht.	
2.03.2	Heavy items:	
a)	ballast, ballast tanks and associated equipment shall be permanently installed	**
b)	heavy movable items including e.g. batteries, stoves, gas bottles, tanks,	**
D)		
- \	toolboxes and anchors and chain shall be securely fastened	**
c)	heavy items for which fixing is not specified in Special Regulations shall be	ተ
	permanently installed or securely fastened, as appropriate	
2.03.3	When to show navigation lights	**
a)	navigation lights (OSR 3.27) shall be shown as required by the International	**
-	Regulations for Preventing Collision at Sea, (Part C and Technical Annex 1). All	
	yachts shall exhibit sidelights and a sternlight at the required times.	
SECTIO	ON 3 - STRUCTURAL FEATURES, STABILITY, FIXED EQUIPMENT	
3.01	Strength of Build, Ballast and Rig	
3.01		**
	Yachts shall be strongly built, watertight and, particularly with regard to hulls,	11-11-
	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	**
3.02.2	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	
2 22 2	trim.	alasla
3.02.3	A canting keel pivot shall be completely contained within a watertight enclosure	**
	which shall comply with OSR 3.02.2. Access points in the watertight enclosure for	
	control and actuation systems or any other purpose shall comply with OSR	
	2.02.1	
	3.02.1.	
3.02.4		**
3.02.4	Moveable ballast systems shall be fitted with a manual control and actuation	**
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	**
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	**
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	**
3.02.4	Moveable ballast systems shall be fitted with a manual control and actuation secondary system which shall be capable of controlling the full sailing load of the keel in the event of failure of the primary system. Such failures would include electrical and hydraulic failure and mechanical failure of the components and the structure to which it mounts. The system must be capable of being operational	**
3.02.4	Moveable ballast systems shall be fitted with a manual control and actuation secondary system which shall be capable of controlling the full sailing load of the keel in the event of failure of the primary system. Such failures would include electrical and hydraulic failure and mechanical failure of the components and the structure to which it mounts. The system must be capable of being operational quickly and shall be operable at any angle of heel. It would be desirable if this	**
	Moveable ballast systems shall be fitted with a manual control and actuation secondary system which shall be capable of controlling the full sailing load of the keel in the event of failure of the primary system. Such failures would include electrical and hydraulic failure and mechanical failure of the components and the structure to which it mounts. The system must be capable of being operational quickly and shall be operable at any angle of heel. It would be desirable if this system was capable of securing the keel on the centreline.	**
3.02.4 3.03.5	Moveable ballast systems shall be fitted with a manual control and actuation secondary system which shall be capable of controlling the full sailing load of the keel in the event of failure of the primary system. Such failures would include electrical and hydraulic failure and mechanical failure of the components and the structure to which it mounts. The system must be capable of being operational quickly and shall be operable at any angle of heel. It would be desirable if this system was capable of securing the keel on the centreline. Regular inspection of the keel and keel/hull attachment structure are strongly	** <i>Mo0,1,2,3,4</i>
3.03.5	Moveable ballast systems shall be fitted with a manual control and actuation secondary system which shall be capable of controlling the full sailing load of the keel in the event of failure of the primary system. Such failures would include electrical and hydraulic failure and mechanical failure of the components and the structure to which it mounts. The system must be capable of being operational quickly and shall be operable at any angle of heel. It would be desirable if this system was capable of securing the keel on the centreline. Regular inspection of the keel and keel/hull attachment structure are strongly recommended	, , , ,
	Moveable ballast systems shall be fitted with a manual control and actuation secondary system which shall be capable of controlling the full sailing load of the keel in the event of failure of the primary system. Such failures would include electrical and hydraulic failure and mechanical failure of the components and the structure to which it mounts. The system must be capable of being operational quickly and shall be operable at any angle of heel. It would be desirable if this system was capable of securing the keel on the centreline. Regular inspection of the keel and keel/hull attachment structure are strongly	** Mo0,1,2,3,4 Mo0,1,2,3,4
3.03.5	Moveable ballast systems shall be fitted with a manual control and actuation secondary system which shall be capable of controlling the full sailing load of the keel in the event of failure of the primary system. Such failures would include electrical and hydraulic failure and mechanical failure of the components and the structure to which it mounts. The system must be capable of being operational quickly and shall be operable at any angle of heel. It would be desirable if this system was capable of securing the keel on the centreline. Regular inspection of the keel and keel/hull attachment structure are strongly recommended	, , , ,
<i>3.03.5</i> 3.04 3.04.2	Moveable ballast systems shall be fitted with a manual control and actuation secondary system which shall be capable of controlling the full sailing load of the keel in the event of failure of the primary system. Such failures would include electrical and hydraulic failure and mechanical failure of the components and the structure to which it mounts. The system must be capable of being operational quickly and shall be operable at any angle of heel. It would be desirable if this system was capable of securing the keel on the centreline. Regular inspection of the keel and keel/hull attachment structure are strongly recommended Stability - Monohulls A yacht shall be designed and built to resist capsize.	Mo0,1,2,3,4
<i>3.03.5</i> 3.04	Moveable ballast systems shall be fitted with a manual control and actuation secondary system which shall be capable of controlling the full sailing load of the keel in the event of failure of the primary system. Such failures would include electrical and hydraulic failure and mechanical failure of the components and the structure to which it mounts. The system must be capable of being operational quickly and shall be operable at any angle of heel. It would be desirable if this system was capable of securing the keel on the centreline. *Regular inspection of the keel and keel/hull attachment structure are strongly recommended* *Stability - Monohulls* A yacht shall be designed and built to resist capsize. Yachts shall demonstrate compliance with ISO 12217-2* Design Category B or	Mo0,1,2,3,4 Mo0,1,2,3,4
<i>3.03.5</i> 3.04 3.04.2	Moveable ballast systems shall be fitted with a manual control and actuation secondary system which shall be capable of controlling the full sailing load of the keel in the event of failure of the primary system. Such failures would include electrical and hydraulic failure and mechanical failure of the components and the structure to which it mounts. The system must be capable of being operational quickly and shall be operable at any angle of heel. It would be desirable if this system was capable of securing the keel on the centreline. Regular inspection of the keel and keel/hull attachment structure are strongly recommended Stability - Monohulls A yacht shall be designed and built to resist capsize. Yachts shall demonstrate compliance with ISO 12217-2* Design Category B or higher, either by EC Recreational Craft Directive certification (having obtained the	Mo0,1,2,3,4 Mo0,1,2,3,4
<i>3.03.5</i> 3.04 3.04.2	Moveable ballast systems shall be fitted with a manual control and actuation secondary system which shall be capable of controlling the full sailing load of the keel in the event of failure of the primary system. Such failures would include electrical and hydraulic failure and mechanical failure of the components and the structure to which it mounts. The system must be capable of being operational quickly and shall be operable at any angle of heel. It would be desirable if this system was capable of securing the keel on the centreline. Regular inspection of the keel and keel/hull attachment structure are strongly recommended Stability - Monohulls A yacht shall be designed and built to resist capsize. Yachts shall demonstrate compliance with ISO 12217-2* Design Category B or higher, either by EC Recreational Craft Directive certification (having obtained the CE mark) or the designer's declaration.	Mo0,1,2,3,4 Mo0,1,2,3,4
<i>3.03.5</i> 3.04 3.04.2	Moveable ballast systems shall be fitted with a manual control and actuation secondary system which shall be capable of controlling the full sailing load of the keel in the event of failure of the primary system. Such failures would include electrical and hydraulic failure and mechanical failure of the components and the structure to which it mounts. The system must be capable of being operational quickly and shall be operable at any angle of heel. It would be desirable if this system was capable of securing the keel on the centreline. **Regular inspection of the keel and keel/hull attachment structure are strongly recommended** **Stability - Monohulls** A yacht shall be designed and built to resist capsize. Yachts shall demonstrate compliance with ISO 12217-2* Design Category B or higher, either by EC Recreational Craft Directive certification (having obtained the CE mark) or the designer's declaration. ** The latest effective version of ISO 12217-2 should be used unless the yacht	Mo0,1,2,3,4 Mo0,1,2,3,4
3.03.5 3.04 3.04.2 3.04.3	Moveable ballast systems shall be fitted with a manual control and actuation secondary system which shall be capable of controlling the full sailing load of the keel in the event of failure of the primary system. Such failures would include electrical and hydraulic failure and mechanical failure of the components and the structure to which it mounts. The system must be capable of being operational quickly and shall be operable at any angle of heel. It would be desirable if this system was capable of securing the keel on the centreline. **Regular inspection of the keel and keel/hull attachment structure are strongly recommended** **Stability - Monohulls** A yacht shall be designed and built to resist capsize. Yachts shall demonstrate compliance with ISO 12217-2* Design Category B or higher, either by EC Recreational Craft Directive certification (having obtained the CE mark) or the designer's declaration. ** The latest effective version of ISO 12217-2 should be used unless the yacht was already designed to a previous version	Mo0,1,2,3,4 Mo0,1,2,3,4 Extract Mo3
<i>3.03.5</i> 3.04 3.04.2	Moveable ballast systems shall be fitted with a manual control and actuation secondary system which shall be capable of controlling the full sailing load of the keel in the event of failure of the primary system. Such failures would include electrical and hydraulic failure and mechanical failure of the components and the structure to which it mounts. The system must be capable of being operational quickly and shall be operable at any angle of heel. It would be desirable if this system was capable of securing the keel on the centreline. **Regular inspection of the keel and keel/hull attachment structure are strongly recommended** **Stability - Monohulls** A yacht shall be designed and built to resist capsize. Yachts shall demonstrate compliance with ISO 12217-2* Design Category B or higher, either by EC Recreational Craft Directive certification (having obtained the CE mark) or the designer's declaration. ** The latest effective version of ISO 12217-2 should be used unless the yacht was already designed to a previous version For yachts which cannot demonstrate compliance in accordance with 3.04.3, a	Mo0,1,2,3,4 Mo0,1,2,3,4
3.03.5 3.04 3.04.2 3.04.3	Moveable ballast systems shall be fitted with a manual control and actuation secondary system which shall be capable of controlling the full sailing load of the keel in the event of failure of the primary system. Such failures would include electrical and hydraulic failure and mechanical failure of the components and the structure to which it mounts. The system must be capable of being operational quickly and shall be operable at any angle of heel. It would be desirable if this system was capable of securing the keel on the centreline. **Regular inspection of the keel and keel/hull attachment structure are strongly recommended** **Stability - Monohulls** A yacht shall be designed and built to resist capsize. Yachts shall demonstrate compliance with ISO 12217-2* Design Category B or higher, either by EC Recreational Craft Directive certification (having obtained the CE mark) or the designer's declaration. ** The latest effective version of ISO 12217-2 should be used unless the yacht was already designed to a previous version For yachts which cannot demonstrate compliance in accordance with 3.04.3, a yacht shall provide, as specified by the race organiser, either:	Mo0,1,2,3,4 Mo0,1,2,3,4 Extract Mo3
3.04.3 3.04.4 3.04.4 a)	Moveable ballast systems shall be fitted with a manual control and actuation secondary system which shall be capable of controlling the full sailing load of the keel in the event of failure of the primary system. Such failures would include electrical and hydraulic failure and mechanical failure of the components and the structure to which it mounts. The system must be capable of being operational quickly and shall be operable at any angle of heel. It would be desirable if this system was capable of securing the keel on the centreline. **Regular inspection of the keel and keel/hull attachment structure are strongly recommended** **Stability - Monohulls** A yacht shall be designed and built to resist capsize. Yachts shall demonstrate compliance with ISO 12217-2* Design Category B or higher, either by EC Recreational Craft Directive certification (having obtained the CE mark) or the designer's declaration. ** The latest effective version of ISO 12217-2 should be used unless the yacht was already designed to a previous version For yachts which cannot demonstrate compliance in accordance with 3.04.3, a yacht shall provide, as specified by the race organiser, either: the stability index/AVS in ORC Rating System of not less than 103; or	Mo0,1,2,3,4 Mo0,1,2,3,4 Extract Mo3 Mo0,1,2,3 Extract Mo3
3.03.5 3.04 3.04.2 3.04.3	Moveable ballast systems shall be fitted with a manual control and actuation secondary system which shall be capable of controlling the full sailing load of the keel in the event of failure of the primary system. Such failures would include electrical and hydraulic failure and mechanical failure of the components and the structure to which it mounts. The system must be capable of being operational quickly and shall be operable at any angle of heel. It would be desirable if this system was capable of securing the keel on the centreline. Regular inspection of the keel and keel/hull attachment structure are strongly recommended Stability - Monohulls A yacht shall be designed and built to resist capsize. Yachts shall demonstrate compliance with ISO 12217-2* Design Category B or higher, either by EC Recreational Craft Directive certification (having obtained the CE mark) or the designer's declaration. * The latest effective version of ISO 12217-2 should be used unless the yacht was already designed to a previous version For yachts which cannot demonstrate compliance in accordance with 3.04.3, a yacht shall provide, as specified by the race organiser, either: the stability index/AVS in ORC Rating System of not less than 103; or IRC SSS Base value of not less than 15; or	Mo0,1,2,3,4 Mo0,1,2,3,4 Extract Mo3 Mo0,1,2,3 Extract Mo3 Extract Mo3
3.04.3 3.04.4 3.04.4 a)	Moveable ballast systems shall be fitted with a manual control and actuation secondary system which shall be capable of controlling the full sailing load of the keel in the event of failure of the primary system. Such failures would include electrical and hydraulic failure and mechanical failure of the components and the structure to which it mounts. The system must be capable of being operational quickly and shall be operable at any angle of heel. It would be desirable if this system was capable of securing the keel on the centreline. **Regular inspection of the keel and keel/hull attachment structure are strongly recommended** **Stability - Monohulls** A yacht shall be designed and built to resist capsize. Yachts shall demonstrate compliance with ISO 12217-2* Design Category B or higher, either by EC Recreational Craft Directive certification (having obtained the CE mark) or the designer's declaration. ** The latest effective version of ISO 12217-2 should be used unless the yacht was already designed to a previous version For yachts which cannot demonstrate compliance in accordance with 3.04.3, a yacht shall provide, as specified by the race organiser, either: the stability index/AVS in ORC Rating System of not less than 103; or	Mo0,1,2,3,4 Mo0,1,2,3,4 Extract Mo3 Mo0,1,2,3 Extract Mo3
3.03.5 3.04 3.04.2 3.04.3 3.04.4 a) b)	Moveable ballast systems shall be fitted with a manual control and actuation secondary system which shall be capable of controlling the full sailing load of the keel in the event of failure of the primary system. Such failures would include electrical and hydraulic failure and mechanical failure of the components and the structure to which it mounts. The system must be capable of being operational quickly and shall be operable at any angle of heel. It would be desirable if this system was capable of securing the keel on the centreline. Regular inspection of the keel and keel/hull attachment structure are strongly recommended Stability - Monohulls A yacht shall be designed and built to resist capsize. Yachts shall demonstrate compliance with ISO 12217-2* Design Category B or higher, either by EC Recreational Craft Directive certification (having obtained the CE mark) or the designer's declaration. * The latest effective version of ISO 12217-2 should be used unless the yacht was already designed to a previous version For yachts which cannot demonstrate compliance in accordance with 3.04.3, a yacht shall provide, as specified by the race organiser, either: the stability index/AVS in ORC Rating System of not less than 103; or IRC SSS Base value of not less than 15; or	Mo0,1,2,3,4 Mo0,1,2,3,4 Extract Mo3 Mo0,1,2,3 Extract Mo3 Extract Mo3
3.03.5 3.04 3.04.2 3.04.3 3.04.4 a) b)	Moveable ballast systems shall be fitted with a manual control and actuation secondary system which shall be capable of controlling the full sailing load of the keel in the event of failure of the primary system. Such failures would include electrical and hydraulic failure and mechanical failure of the components and the structure to which it mounts. The system must be capable of being operational quickly and shall be operable at any angle of heel. It would be desirable if this system was capable of securing the keel on the centreline. *Regular inspection of the keel and keel/hull attachment structure are strongly recommended** *Stability - Monohulls** A yacht shall be designed and built to resist capsize. Yachts shall demonstrate compliance with ISO 12217-2* Design Category B or higher, either by EC Recreational Craft Directive certification (having obtained the CE mark) or the designer's declaration. * The latest effective version of ISO 12217-2 should be used unless the yacht was already designed to a previous version For yachts which cannot demonstrate compliance in accordance with 3.04.3, a yacht shall provide, as specified by the race organiser, either: the stability index/AVS in ORC Rating System of not less than 103; or IRC SSS Base value of not less than 15; or a minimum STIX value of 23 and AVS not less than 130 - 0.005*m (Where "m" is the mass of the boat in the minimum operating condition as defined by ISO	Mo0,1,2,3,4 Mo0,1,2,3,4 Extract Mo3 Mo0,1,2,3 Extract Mo3 Extract Mo3
3.03.5 3.04 3.04.2 3.04.3 3.04.4 a) b) c)	Moveable ballast systems shall be fitted with a manual control and actuation secondary system which shall be capable of controlling the full sailing load of the keel in the event of failure of the primary system. Such failures would include electrical and hydraulic failure and mechanical failure of the components and the structure to which it mounts. The system must be capable of being operational quickly and shall be operable at any angle of heel. It would be desirable if this system was capable of securing the keel on the centreline. *Regular inspection of the keel and keel/hull attachment structure are strongly recommended *Stability - Monohulls* A yacht shall be designed and built to resist capsize. Yachts shall demonstrate compliance with ISO 12217-2* Design Category B or higher, either by EC Recreational Craft Directive certification (having obtained the CE mark) or the designer's declaration. * The latest effective version of ISO 12217-2 should be used unless the yacht was already designed to a previous version For yachts which cannot demonstrate compliance in accordance with 3.04.3, a yacht shall provide, as specified by the race organiser, either: the stability index/AVS in ORC Rating System of not less than 103; or IRC SSS Base value of not less than 15; or a minimum STIX value of 23 and AVS not less than 130 - 0.005*m (Where "m" is the mass of the boat in the minimum operating condition as defined by ISO 12217-2.)	Mo0,1,2,3,4 Mo0,1,2,3,4 Extract Mo3 Mo0,1,2,3 Extract Mo3 Extract Mo3 Extract Mo3 Extract Mo3
3.03.5 3.04 3.04.2 3.04.3 3.04.4 a) b)	Moveable ballast systems shall be fitted with a manual control and actuation secondary system which shall be capable of controlling the full sailing load of the keel in the event of failure of the primary system. Such failures would include electrical and hydraulic failure and mechanical failure of the components and the structure to which it mounts. The system must be capable of being operational quickly and shall be operable at any angle of heel. It would be desirable if this system was capable of securing the keel on the centreline. **Regular inspection of the keel and keel/hull attachment structure are strongly recommended** **Stability - Monohulls** A yacht shall be designed and built to resist capsize. Yachts shall demonstrate compliance with ISO 12217-2* Design Category B or higher, either by EC Recreational Craft Directive certification (having obtained the CE mark) or the designer's declaration. ** The latest effective version of ISO 12217-2 should be used unless the yacht was already designed to a previous version For yachts which cannot demonstrate compliance in accordance with 3.04.3, a yacht shall provide, as specified by the race organiser, either: the stability index/AVS in ORC Rating System of not less than 103; or IRC SSS Base value of not less than 15; or a minimum STIX value of 23 and AVS not less than 130 - 0.005*m (Where "m" is the mass of the boat in the minimum operating condition as defined by ISO 12217-2.) **Use of the ISO or any other index does not guarantee total safety or total**	Mo0,1,2,3,4 Mo0,1,2,3,4 Extract Mo3 Mo0,1,2,3 Extract Mo3 Extract Mo3
3.03.5 3.04 3.04.2 3.04.3 3.04.4 a) b) c)	Moveable ballast systems shall be fitted with a manual control and actuation secondary system which shall be capable of controlling the full sailing load of the keel in the event of failure of the primary system. Such failures would include electrical and hydraulic failure and mechanical failure of the components and the structure to which it mounts. The system must be capable of being operational quickly and shall be operable at any angle of heel. It would be desirable if this system was capable of securing the keel on the centreline. *Regular inspection of the keel and keel/hull attachment structure are strongly recommended *Stability - Monohulls* A yacht shall be designed and built to resist capsize. Yachts shall demonstrate compliance with ISO 12217-2* Design Category B or higher, either by EC Recreational Craft Directive certification (having obtained the CE mark) or the designer's declaration. * The latest effective version of ISO 12217-2 should be used unless the yacht was already designed to a previous version For yachts which cannot demonstrate compliance in accordance with 3.04.3, a yacht shall provide, as specified by the race organiser, either: the stability index/AVS in ORC Rating System of not less than 103; or IRC SSS Base value of not less than 15; or a minimum STIX value of 23 and AVS not less than 130 - 0.005*m (Where "m" is the mass of the boat in the minimum operating condition as defined by ISO 12217-2.)	Mo0,1,2,3,4 Mo0,1,2,3,4 Extract Mo3 Mo0,1,2,3 Extract Mo3 Extract Mo3 Extract Mo3 Extract Mo3

3.04.8	plus the relevant additional requirement of OSR Appendix K. Tanks for variable ballast shall be permanently installed and shall be provided with a system of isolating valves and pump(s) capable of manual operation at any	Mo0,1,2,3,4
3.04.9	angle of heel. A plan of the plumbing system shall be displayed aboard the boat. A boat fitted with moveable and/or variable ballast shall have a maximum static heel angle in the condition of Light Craft Condition (see ISO 12217-2) with moveable ballast moved fully to one side and variable ballast in the condition that	Mo0,1,2,3,4
3.06 3.06.1	produces maximum angle of heel of not greater than 35 degrees. Exits - Monohulls Yachts of LOA of 8.5 m (28 ft) and over with age or series date after January 1995 and after shall have at least two exits. At least one exit shall be located forward of the foremost mast except where structural features prevent its installation.	Mo0,1,2,3,4 Mo0,1,2,3,4
3.06.2	Yachts first launched on or after January 2014 have a hatch with the following minimum clear openings in compliance with ISO 9094: - Circular shape: diameter 450mm;	Mo0,1,2,3,4
	 Any other shape: minimum dimension of 380mm and minimum area of 0.18m2. The dimension must be large enough to allow for a 380mm diameter circle to be inscribed. 	
	The measurement of the minimum clear opening is illustrated in Figure 1.	
	380	
3.06.3	Figure 1 - Measurements of Minimum Clear Opening when first launched prior to January 2014, if possible have each escape hatch in	Mo0,1,2,3,4
3.08	compliance with the dimensions in OSR 3.07.2(a)(ii); Hatches & Companionways	
3.08.1	No hatch forward of the maximum beam station, other than a hatch in the side of a coachroof, shall open in such a way that the lid or cover moves into the open position towards the interior of the hull (excepting ports having an area of less than 0.071m2 (110 sq in)).	**
3.08.2	A hatch fitted forward of the maximum beam station, located on the side of the coachroof, opening into the interior of the boat ,and of area greater than 0.071m2 shall comply with ISO12216 design category A and be clearly labelled and used in accordance with the following instruction: "NOT TO BE OPENED AT	**
3.08.3	SEA" Attention is drawn to SR 3.02.1 A hatch shall be:	
a)	so arranged as to be above the water when the hull is heeled 90 degrees. Hatches over lockers that open to the interior of the vessel shall be included in this requirement. A yacht may have a maximum of four (two on each side of centerline) hatches that do not conform to this requirement, provided that the opening of each is less than 0.071 sq m (110 sq in). Effective for boats of a series begun after January 1, 2009, a written statement signed by the designer or other person who performed the downflooding analysis shall be carried on board. For purposes of this rule the vessel's displacement condition for the analysis shall be the Light Craft Condition LCC (in conformity with 6.3 of the EN ISO 8666 standard	Mo0,1,2,3,4
b)	and 3.5.1 of the EN ISO12217-2 standard). permanently attached	**
c)	capable of being firmly shut immediately and remaining firmly shut in a 180 degree capsize (inversion)	**
3.08.4 a)	A companionway hatch shall: be fitted with a strong securing arrangement which shall be operable from the	**
	exterior and interior including when the yacht is inverted	
b)	have any blocking devices:	**

i	capable of being retained in position with the hatch open or shut	**
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	
3.08.5	If the companionway extends below the local sheerline and the boat has a cockpit	Mo0,1,2,3,4
	opening aft to the sea the boat shall comply with one of the following:	
a)	the companionway sill shall not extend below the local sheerline. Or	Mo0,1,2,3,4
b)	be in full compliance with all aspects of ISO 11812 to design category A	Mo0,1,2,3,4
3.08.6	For boats with a cockpit closed aft to the sea where the companionway hatch	Mo0,1,2,3,4
3.00.0	extends below the local sheerline, the companionway shall be capable of being	1100,1,2,3,1
	, , , , , , , , , , , , , , , , , , , ,	
	blocked off up to the level of the local sheerline, provided that the companionway	
	hatch shall continue to give access to the interior with the blocking devices (e.g.	
	washboards) in place	
3.09	Cockpits - Attention is Drawn to ISO 11812	
3.09.1	Cockpits shall be structurally strong, self-draining quickly by gravity at all angles	**
	of heel and permanently incorporated as an integral part of the hull.	
3.09.2	Cockpits must be essentially watertight, that is, all openings to the hull must be	**
3.09.2		
	capable of being strongly and rigidly secured	dede
3.09.3	A bilge pump outlet pipe shall not be connected to a cockpit drain. See OSR	**
	3.09.8 for cockpit drain minimum sizes	
3.09.4	A cockpit sole shall be at least 2% LWL above LWL (or in IMS yachts first	**
	launched before 1/03, at least 2% L above LWL)	
3.09.5	A bow, lateral, central or stern well shall be considered a cockpit for the purposes	**
310313	of OSR 3.09	
3.09.6		**
3.09.0	In cockpits opening aft to the sea structural openings aft shall be not less in area	1.1.
	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 9% (LWL	Extract
	x maximum beam x freeboard abreast the cockpit).	MoMu2,3,4
ii)	earliest of age or series date April 1992 and after	
,	as above for the appropriate category except that "lowest coamings" shall not	Extract **
	include any aft of the FA station and no extension of a cockpit aft of the working	Ext. doc
	,	
	deck shall be included in calculation of cockpit volume	- 1 + 4 + 4
	IMS-rated boats may instead of the terms LWL, maximum beam, freeboard	Extract **
	abreast the cockpit, use the IMS terms L, B and FA.	
3.09.8	Cockpit Drains	
	See OSR 3.09.1. Cockpit drain cross section area (after allowance for screens if	
	fitted) shall be:-	
a)	in yachts with earliest of age or series date before 1/72 or in any yacht under	**
u)	8.5m (28ft) LOA - at least that of 2 x 25mm diameter (one inch) unobstructed	
	openings or equivalent	**
b)	in yachts with earliest of age or series date $1/72$ and later - at least that of 4 x	<i>ተ</i>
	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	
3.11		**
	Sheet winches shall be mounted in such a way that an operator is not required to	4.4
	be substantially below deck.	
3.12	Mast Step	
	The heel of a keel stepped mast shall be securely fastened to the mast step or	**
	adjoining structure.	
3.14	Pulpits, Stanchions, Lifelines	
3.14.2	Lifeline deflection shall not exceed the following:	**
		**
a)	When a deflecting force of 4 kg/f (39.2 N) is applied to a lifeline midway between	1001
	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.

**

3.14.3 The following shall be provided:

a)

**

Mo0,1,2,3,4

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

Ø360 mm

Figure 2 - Diagram Showing Pulpit Opening

a stern pulpit, or lifelines arranged as an adequate substitute, with vertical openings conforming to Table 7
 lifelines (guardlines) supported on stanchions, which, with pulpits, shall form an **

**

effectively continuous barrier around a working deck for man-overboard prevention. Lifelines shall be permanently supported at intervals of not more than 2.20m (86.6") and shall not pass outboard of supporting stanchions

**

d) upper rails of pulpits at no less height above the working deck than the upper lifelines as in Table 7.

**

e) Openable upper rails in bow pulpits shall be secured shut whilst racing
f) Pulpits and stanchions shall be permanently installed. When there are sockets or studs, these shall be through-bolted, bonded or welded. The pulpit(s) and/or stanchions fitted to these shall be mechanically retained without the help of the life-lines. Without sockets or studs, pulpits and/or stanchions shall be through-bolted, bonded or welded.

g) The bases of pulpits and stanchions shall not be further inboard from the edge of the appropriate working deck than 5% of maximum beam or 150 mm (6 in), whichever is greater.

**

**

h) Stanchion or pulpit or pushpit bases shall not be situated outboard of a working deck. For the purpose of this rule the base shall be taken to include a sleeve or socket into which the tube is fitted but shall exclude a baseplate which carries fixings into the deck or hull.

**

i) Provided the complete lifeline enclosure is supported by stanchions and pulpit bases effectively within the working deck, lifeline terminals and support struts may be fixed to a hull aft of the working deck

j) Lifelines need not be fixed to a bow pulpit if they terminate at, or pass through, adequately braced stanchions set inside and overlapping the bow pulpit, provided that the gap between the upper lifeline and the bow pulpit does not exceed 150 mm (6 in).

k) Lifelines shall be continuous and fixed only at (or near) the bow and stern. However a bona fide gate shall be permitted in the lifelines on each side of a yacht. Except at its end fittings, the movement of a lifeline in a fore-and-aft direction shall not be constrained. Temporary sleeving in 3.14.6 (c) shall not modify tension in the lifeline.

**

l)	Stanch	nions shall be stra	ight and ve	ertical except that:-	**	
i			-	the deck, stanchions shall not be displaced	**	
				h they emerge from the deck or stanchion base	<u>د</u>	
		re than 10 mm (3		,		
ii	•	•		nore than 10 degrees from vertical at any point	**	
		50 mm (2 in) from				
m)		• •		lesigns also comply to ISO 15085	**	
3.14.5				ngs, Number of Lifelines		
511 115	TABLE		са: Орсіііі	ngs/ reamber of Enclines	**	
	LOA	earliest of	- r	minimum requirements		Category
	LOT	age/series		minimum requirements		category
	unde			single lifeline at a height of no less than 450 m	m (18	**
	m(28		-	n) above the working deck. No vertical opening	•	
	111(20	10) 1332		shall exceed 560 mm (22 in).	ð	
	unde	r 8.5 January 1		as for under 8.5 m(28 ft) in table 7 above, exce	ent	**
	m(28	•		that when an intermediate lifeline is fitted no vi		
	111(20	it) and arter		opening shall exceed 380 mm (15 in).	citicai	
	8.5 m	n (28 before Ja		double lifeline with upper lifeline at a height of	no	**
	ft) ar	•	•	ess than 600 mm (24 in) above the working de		
	over	iu 1995		No vertical opening shall exceed 560 mm (22 ir		
	8.5 m	n (28 January 1		as 8.5 m (28 ft) and over in Table 7 above, exc	•	**
	ft)and	•		that no vertical opening shall exceed 380 mm (•	
	over	a and anter		in).	13	
	all	all		on yachts with intermediate lifelines the		**
	an	ali		intermediate line shall be not less than 230 mm	. (0	
				n) above the working deck.	1 (9	
3.14.6	l ifalir	ae Minimum Dia		Required Materials, Specifications		
a)		es shall be of :	inicters, it	required Flaterials, Specifications	**	
u)	_	stranded stainles	s steel wire	1	**	
b)				d in table 8 below.	**	
c)			•	coated and used without close-fitting sleeving,	**	
C)				be fitted provided it is regularly removed for		
	inspec		eving may	be fitted provided it is regularly removed for		
d)	-		ised Grade	e 316 is recommended.	**	
f)			,	ay be used to secure lifelines provided the gap	**	
'/			•	(4 in). This lanyard shall be replaced annually		
		inimum.	a 100 mm	(1 m) 1 ms lamyara shan se replacea annaany		
g)			age points.	, fixtures and lanyards shall comprise a lifeline	**	
37				points at least the breaking strength of the		
		ed lifeline wire.		F		
		8 - Minimum Dia	meters		**	
	LOA			wire		
	-	r 8.5m (28ft)		3mm (1/8 in)		
		- 13m		4mm (5/32 in)		
		13m (43 ft)		5mm (3/16in)		
3.17		ail or Foot - Sto	n	311111 (3/13111)	Mo	0,1,2,3
3.17.1			-	m (1 in) shall be permanently installed around		0,1,2,3
3.17.1			-	st, except in way of fittings and not further	1 10	3,1,2,3
				ting deck than one third of the local half-beam.		
3.17.2		llowing variations			Mot	0,1,2,3
	TABLE			,		0,1,2,3
	LOA		minimum	requirements	1	, , ,
		or Series Date		1		
	any	before January	a toe rail	minimum height of 20 mm (3/4 in) is	1	
	""	1981	acceptab			
	any	before January		onal lifeline of minimum height 25 mm (1 in)	1	
	'	1994		imum height 50 mm (2 in) is acceptable in		
				toe rail (but shall not count as an		
					_	

			intermediate incline).	
	any	January 1994	the toe rail shall be fitted as close as practicable to the	
		and after	vertical axis of stanchion bases but not further inboard	
			than 1/3 the local half-beam.	
3.18	Toilet		,	
3.18.2	A toile	t, permanently ins	stalled or fitted bucket	MoMu3,4
3.19	Bunk	· •		/
3.19.2	Bunks	, permanently inst	alled	**
3.20		ng Facilities		
3.20.1			nently installed or securely fastened with safe accessible	MoMu0,1,2,3
00			capable of being safely operated in a seaway.	
3.21			s & Drinking Water	MoMu0,1,2,3
3.21.1		ing Water Tanks	-	MoMu0,1,2,3
a)			manently installed delivery pump and water tank(s):	MoMu0,1,2,3
3.21.3	-	gency Drinking \		MoMu0,1,2,3
a)			illons, 2.4 US gallons) of drinking water for emergency	MoMu1,2,3
u)			a dedicated and sealed container or container(s)	11011111,2,3
3.22		Holds	a dedicated and sealed container of container(s)	
J.22			all be fitted below deck so that crew members may move	**
	•	safely at sea.	all be fitted below deck so that crew members may move	
		•	capable of withstanding without rupture a side force of	
		l - attention is dra	•	
3.23		Pumps and Buc		
3.23.1			harge into a cockpit unless that cockpit opens aft to the	**
3.23.1		ge pump may disc	marge into a cockpit unless that cockpit opens art to the	
3.23.2	sea.	numne chall not be	connected to cocknit drains (OCD 2 00)	**
3.23.2		•	e connected to cockpit drains. (OSR 3.09)	**
3.23.3		ig out debris	boxes shall be readily accessible for maintenance and for	
3.23.4			alled, each bilge pump handle shall be provided with a	**
J.2J.T		•	ar device to prevent accidental loss	
3.23.5	•	ollowing shall be pi	•	
d)			y installed manual bilge pump operable with all cockpit	Mo3
u)		hatches and comp	,	1105
f)	•	•	nstruction each with at least 9 litres (2 UK gallons, 2.4 US	**
')			bucket to have a lanyard.	
3.24	Comp	• •	decet to have a larryara.	
3.24.1		ollowing shall be pr	rovided:-	
a)		• .	pass, independent of any power supply, permanently	**
uj			djusted with deviation card, and	
b)		-	ependent of any power supply, capable of being used as	MoMu0,1,2,3
D)	_	•	th may be hand-held	1 101 100,1,2,3
3.25	Halya		ar may be name need	
5.25			than two halyards, each capable of hoisting a sail.	**
3.27		ation Lights (se	, ,	
3.27.1			e mounted so that they will not be masked by sails or the	**
312711	_	g of the yacht.	thousand so that they will hot be madical by sails of the	
3.27.2		•	ot be mounted below deck level and should be at no less	**
312712			under the upper lifeline.	
3.27.3	_	ation light intensity		
3.27.3	TABLE			
	LOA		Guide to required minimum power rating for an	
	20/1		electric bulb in a navigation light	
	unde	r 12 m (39.4 ft)	10 W	
		(39.4 ft) and	25 W	
	abov	•	25 00	
3.27.4			s shall be carried having the same minimum specifications	MoMu0,1,2,3
J.2/. 1			shove with a separable nower source, and wiring or	11011110,1,2,3

as the navigation lights above, with a separable power source, and wiring or supply system essentially separate from that used for the normal navigation lights

intermediate lifeline).

spare bulbs for navigation lights shall be carried, or for lights not dependent on bulbs, appropriate spares.	**
Engines, Generators, Fuel	
	**
manufacturers' guidelines and shall be of a type, strength, capacity, and	**
An inboard propulsion engine when fitted shall: be provided with a permanently installed exhaust, coolant, and fuel supply systems and fuel tank(s); be securely	**
A propulsion engine required by Special Regulations shall provide a minimum speed in knots of (1.8 x square root of LWL in metres) or (square root of LWL in feet)	MoMu0,1,2,3
A propulsion engine shall be provided either as an inboard propulsive engine or as an outboard engine with associated tanks and fuel supply systems, all securely fastened.	Mo3
Generator	
A separate generator for electricity is optional. However, when a separate generator is carried it shall be permanently installed, securely covered, and shall have permanently installed exhaust, cooling and fuel supply systems and fuel tank(s), and have adequate protection from the effects of heavy weather.	**
•	MoMu0,1,2,3
	1401400,1,2,3
The propulsion engine shall have a minimum amount of fuel which may be	MoMu0,1,2,3
specified in the Notice of Race but if not, shall be sufficient to be able to meet charging requirements for the duration of the race and to motor at the above minimum speed for at least 8 hours	
	MoMu0,1,2,3
All rechargeable batteries on board shall be of the sealed type from which liquid electrolyte cannot escape. Other types of battery installed on board at 1/12 may	MoMu0,1,2,3
	**
Provision of GMDSS is unlikely to be mandatory for small craft during the term of the present Special Regulations.	MoMu0,1,2,3
·	**
· · · · · · · · · · · · · · · · · · ·	MoMu0,1,2,3
	MoMu0,1,2,3
When the marine radio transceiver is VHF:	MoMu0,1,2,2
	MoMu0,1,2,3
it shall have a masthead antenna, and co-axial feeder cable with not more than	MoMu0,1,2,3
40% power loss	
the following types and lengths of co-axial feeder cable will meet the requirements of OSR 3.29.1 (b)(ii): (a) up to 15m (50ft) - type RG8X ("mini 8"); (b) 15-28m (50-90ft) - type RG8U; (c) 28-43m (90-140ft) - type 9913F (uses conventional connectors, available from US supplier Belden); (d) 43-70m) 140-230ft - type I MR600 (uses special connectors, available from US supplier Times	MoMu0,1,2,3
it should include channel 72 (an international ship-ship channel which, by common use, has become widely accepted as primary choice for ocean racing	MoMu0,1,2,3
	MaMed 2.2
DSC capable VHF transceivers installed after 31 December 2015 shall be DSC capable 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 DSC position report with	MoMu1,2,3 MoMu1,2,3
	bulbs, appropriate spares. Engines, Generators, Fuel Propulsion Engines Engines and associated systems shall be installed in accordance with their manufacturers' guidelines and shall be of a type, strength, capacity, and installation suitable for the size and intended use of the yacht. An inboard propulsion engine when fitted shall: be provided with a permanently installed exhaust, coolant, and fuel supply systems and fuel tank(s); be securely covered; and have adequate protection from the effects of heavy weather. A propulsion engine required by Special Regulations shall provide a minimum speed in knots of (1.8 x square root of LWL in metres) or (square root of LWL in feet) A propulsion engine shall be provided either as an inboard propulsive engine or as an outboard engine with associated tanks and fuel supply systems, all securely fastened. Generator A separate generator for electricity is optional. However, when a separate generator is carried it shall be permanently installed, securely covered, and shall have permanently installed sexhaust, cooling and fuel supply systems and fuel tank(s), and have adequate protection from the effects of heavy weather. Fuel Systems Each fuel tank provided with a shutoff valve. Except for permanently installed linings or liners, a flexible tank is not permitted as a fuel tank. The propulsion engine shall have a minimum amount of fuel which may be specified in the Notice of Race but if not, shall be sufficient to be able to meet charging requirements for the duration of the race and to motor at the above minimum speed for at least 8 hours Battery Systems When an electric starter is the only method for starting the engine, the yacht shall have a separate battery, the primary purpose of which is to start the engine All rechargeable batteries on board shall be of the sealed type from which liquid electrolyte cannot escape. Other types of battery installed on board at 1/12 may continue in use for the remainder of their service lives. Communications Equipment, EPFS (Electronic

	another DSC equipped station	
e)	A hand-held marine VHF transceiver, watertight or with a waterproof 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.	MoMu1,2,3,4
f)	Independent of a main radio transceiver, a radio receiver capable of receiving weather bulletins	**
i)	An EPFS (Electronic Position-Fixing System) (e.g. GPS)	MoMu0,1,2,3
o) 3.29.2	An AIS Transponder is recommended Yachts are reminded that no reflector, active or passive, is a guarantee of	MoMu3 **
J.29.2	detection or tracking by a vessel using radar.	
a)	The attention of persons in charge is drawn to legislation in force or imminent affecting the territorial seas of some countries in which the carriage of an AIS set	**
SECTIO	is or will be mandatory for certain vessels including relatively small craft. N 4 - PORTABLE EQUIPMENT & SUPPLIES for the yacht	
	ter & fuel see OSR 3.21 and OSR 3.28)	
4.01	Sail Letters & Numbers	
4.01.1	Yachts which are not in an ISAF International Class or Recognized Class shall comply with RRS 77 and Appendix G as closely as possible, except that sail	**
	numbers allotted by a State authority are acceptable.	
4.01.2	Sail numbers and letters of the size carried on the mainsail must be displayed by	**
4.03	alternative means when none of the numbered sails is set. Soft Wood Plugs	
4.03	Soft wood plugs, tapered and of the appropriate size, shall be attached or stowed adjacent to the appropriate fitting for every through-hull opening.	**
4.04	Jackstays, Clipping Points and Static Safety Lines	
4.04.1	Jackstays shall be provided-	MoMu0,1,2,3
a)	attached to through-bolted or welded deck plates or other suitable and strong anchorage fitted on deck, port and starboard of the yacht's centre line to provide	MoMu0,1,2,3
b)	secure attachments for safety harness:- comprising stainless steel 1 x 19 wire of minimum diameter 5 mm (3/16 in), high	MoMu0,1,2,3
5)	modulus polyethylene (such as Dyneema/Spectra) rope or webbing of equivalent strength;	1101100/1/2/3
c)	which, when made from stainless steel wire shall be uncoated and used without any sleeving;	MoMu0,1,2,3
d)	20kN (2,040 kgf or 4,500 lbf) min breaking strain webbing is recommended;	MoMu0,1,2,3
4.04.2	Clipping Points:- shall be provided-	
a)	attached to through-bolted or welded deck plates or other suitable and strong anchorage points adjacent to stations such as the helm, sheet winches and	MoMu0,1,2,3
	masts, where crew members work for long periods:-	
b)	which, together with jackstays and static safety lines shall enable a crew member-	MoMu0,1,2,3
i 	to clip on before coming on deck and unclip after going below;	MoMu0,1,2,3
ii	whilst continuously clipped on, to move readily between the working areas on deck and the cockpit(s) with the minimum of clipping and unclipping operations.	MoMu0,1,2,3
c)	The provision of clipping points shall enable two-thirds of the crew to be simultaneously clipped on without depending on jackstays	MoMu0,1,2,3
e)	Warning - U-bolts as clipping points - see OSR 5.02.1(a)	MoMu0,1,2,3
4.05	Fire Extinguishers	7.707.700727273
4.05.1	Shall be provided as follows:	**
4.05.1	Fire extinguishers, at least two, readily accessible in suitable and different parts of the yacht	ጥ
4.05.2	Fire Extinguishers, at least two, of minimum 2kgs each of dry powder or equivalent	MoMu0,1,2,3
4.05.4	A fire blanket adjacent to every cooking device with an open flame	**
4.06	Anchor(s)	
4.06.1 a)	An anchor or anchors shall be carried according to the table below:	**
:a ı	The following anchors shall be provided	

i	For yachts of 8.5 m LOA (28 ft) and over there shall be 2 anchors together with a suitable combination of chain and rope, all ready for immediate use	MoMu1,2,3
ii	For yachts under 8.5 m LOA (28 ft) there shall be 1 anchor together with a suitable combination of chain and rope, all ready for immediate use	MoMu1,2,3
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 person	**
	overboard at night and for collision avoidance with spare batteries and bulbs, and	
b)	a watertight flashlight with spare batteries and bulb	**
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 Coles	MoMu2,3,4
	Nautical, London	
<i>c)</i>	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. www.panpan.it	MoMu2,3,4
e)	Skipper's Medical Emergency Handbook by Dr Spike Briggs and Dr Campbell	**
4.00.2	Mackenzie www.msos.org.uk	**
4.08.2	A First Aid Kit shall be provided The contents and storage of the First Aid Kit should reflect the guidelines of the	**
4.08.3	The contents and storage of the First Aid Kit should reflect the guidelines of the Manual carried, the likely conditions and duration of the passage, and the number	<i>TT</i>
	of people aboard the yacht.	
4.09	Foghorn	**
4 4 0	A foghorn shall be provided	**
4.10	Radar Reflector	**
4.10.1	A passive radar reflector shall be carried with:	100
	Octahederal circular sector plates of minimum diameter 300 mm (12") or Octahederal rectangular plates of minimum diagonal dimension 405 mm (16") or	
	a non-Octahederal reflector with a documented Root Mean Square minimum	
	Radar Cross Section (RCS) area of 2 m2 from 0-360 degrees in azimuth and +/-	
	20 degrees in heel.	
4.11	Navigation Equipment	
4.11.1	Charts	
	Navigational charts (not solely electronic), light list and chart plotting equipment	**
	shall be provided	
4.12	Safety Equipment Location Chart	
	A safety equipment location chart in durable waterproof material shall be	**
	displayed in the main accommodation where it can best be seen, clearly marked	
	with the location of principal items of safety equipment.	
4.13	Echo Sounder or Lead Line	
4.13.1	An echo sounder or lead line shall be provided	MoMu1,2,3,4
4.14	Speedometer or Distance Measuring Instrument (log)	
	A speedometer or distance measuring instrument (log) shall be provided	MoMu0,1,2,3
4.15	Emergency Steering	
	Emergency steering shall be provided as follows:	
4.15.1		
4.15.1 a)	except when the principal method of steering is by means of an unbreakable	MoMu0,1,2,3
a)	metal tiller, an emergency tiller capable of being fitted to the rudder stock;	
	metal tiller, an emergency tiller capable of being fitted to the rudder stock; crews must be aware of alternative methods of steering the yacht in any sea	MoMu0,1,2,3 MoMu0,1,2,3
a)	metal tiller, an emergency tiller capable of being fitted to the rudder stock; crews must be aware of alternative methods of steering the yacht in any sea condition in the event of rudder loss. At least one method must have been proven	
a)	metal tiller, an emergency tiller capable of being fitted to the rudder stock; crews must be aware of alternative methods of steering the yacht in any sea condition in the event of rudder loss. At least one method must have been proven to work on board the yacht. An inspector may require that this method be	
a) b)	metal tiller, an emergency tiller capable of being fitted to the rudder stock; crews must be aware of alternative methods of steering the yacht in any sea condition in the event of rudder loss. At least one method must have been proven to work on board the yacht. An inspector may require that this method be demonstrated.	
a)	metal tiller, an emergency tiller capable of being fitted to the rudder stock; crews must be aware of alternative methods of steering the yacht in any sea condition in the event of rudder loss. At least one method must have been proven to work on board the yacht. An inspector may require that this method be demonstrated. Tools and Spare Parts	
a) b)	metal tiller, an emergency tiller capable of being fitted to the rudder stock; crews must be aware of alternative methods of steering the yacht in any sea condition in the event of rudder loss. At least one method must have been proven to work on board the yacht. An inspector may require that this method be demonstrated. Tools and Spare Parts Tools and spare parts, including effective means to quickly disconnect or sever	MoMu0,1,2,3
a) b)	metal tiller, an emergency tiller capable of being fitted to the rudder stock; crews must be aware of alternative methods of steering the yacht in any sea condition in the event of rudder loss. At least one method must have been proven to work on board the yacht. An inspector may require that this method be demonstrated. Tools and Spare Parts	MoMu0,1,2,3
a) b) 4.16	metal tiller, an emergency tiller capable of being fitted to the rudder stock; crews must be aware of alternative methods of steering the yacht in any sea condition in the event of rudder loss. At least one method must have been proven to work on board the yacht. An inspector may require that this method be demonstrated. Tools and Spare Parts Tools and spare parts, including effective means to quickly disconnect or sever the standing rigging from the hull shall be provided.	MoMu0,1,2,3

4.18	Marine grade retro-reflective			
	Marine grade retro-reflective m		buoys, lifeslings,	**
4.00	liferafts and lifejackets. See OS	Rs 5.04, 5.08.		
4.22	Lifebuoys	ithin was ab of the halmes		**
4.22.1	The following shall be provided instant use:	within reach of the neims	nan and ready for	ላ ላ
a)	a lifebuoy with a self-igniting lig	aht and a droque		**
4.22.3	Each inflatable lifebuoy and any		ale and flag extended by	**
7.22.3	compressed gas) shall be tested			
	manufacturer's instructions.	a ana servicea at intervals	in accordance with its	
4.22.4	Each lifebuoy or lifesling shall b	e fitted with marine grade	retro-reflective material	**
	(4.18).	g		
4.22.5	It is recommended that the cold	our of each lifebuoy be a s	afety colour in the	**
	yellow-red range.			
4.23	Pyrotechnic and Light Signa			
4.23.1	Pyrotechnic signals shall be pro	_	-	**
	Visual Signals and not older that		(if any) or if no expiry	
	date stamped , not older than 4			1
	red parachute flares LSA III	red hand flares LSA III	orange smoke LSA III	race
	3.1	3.2	3.3	category
	6	4	2	MoMu0,1
	4	4	2	MoMu2,3
	2	4	2	Mo4
	TABLE 13	4	Z	Mu4
4.24	Heaving Line			**
a)	a heaving line shall be provided	l 15 m - 25 m (50 ft - 75 ft) length readily	**
u)	accessible to cockpit.	115111 25111 (5010 7510	, icrigati redaily	
<i>b)</i>	the "throwing sock" type is reco	ommended - 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 sh	nall be provided readily	**
	accessible from the deck or a co	•		
4.26	Storm & Heavy Weather Sai	ils		
4.26.1	Design			ماه ماه
a)	it is strongly recommended			**
	designer and sailmaker to d			
	heavy weather sails. The pupropulsion for the yacht in s	=	-	
	part of the racing inventory			
	areas are likely to suit some			
	other characteristics.	, , , , , , , , , , , , , , , , , , , ,		
4.26.2	High Visibility			
a)	Every storm jib shall either be o	of highly-visible coloured m	aterial (e.g. dayglo	**
•	pink, orange or yellow) or have	a highly-visible coloured p	atch at least 50% of	
	the area of the sail (up to a ma	ximum diameter of 3m) ad	lded on each side; and	
	also that a rotating wing mast s	.	•	
	each side. A storm sail purchase	•	I have the material of	
	the body of the sail a highly-vis			**
<i>b)</i>	it is strongly recommended that	•	either be made of or	**
4 26 2	have a patch of highly visible of	olour.		
4.26.3	Materials	nd cimilar fibros chall not b	a usad in a trysail or	**
a)	aromatic polyamides, carbon ar storm jib but spectra/dyneema		-	-
b)	it is strongly recommended tha	-		**
~/	polyamides, carbon and similar			
4.26.4	The following shall be provi	· · · · · · · · · · · · · · · · · · ·	,	
a)	sheeting positions on deck for e		ther sail;	**
-	- ·	•	•	

- for each storm or heavy-weather jib, a means to attach the luff to the stay, b) independent of any luff-groove device. A heavy weather jib shall have the means of attachment readily available. A storm jib shall have the means of attachment permanently attached; Storm and heavy weather jib areas shall be calculated as: $(0.255 \times 1)^*$ 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 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.

Extract MoMu

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;

Extract MoMu 3,4

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

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

MoMu3

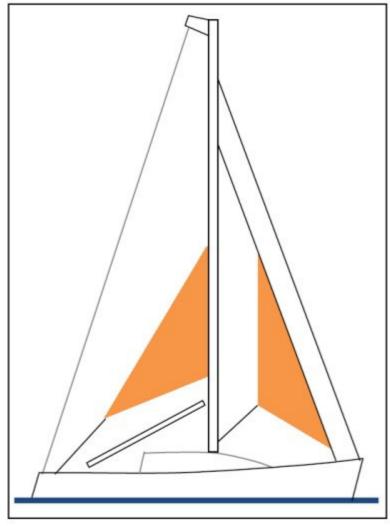


Figure 3 **SECTION 5 - PERSONAL EQUIPMENT** 5.01 Lifejacket

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

a) In accordance with ISO 12402 – 3 (Level 150) or equivalent, including EN 396 or i UL 1180

ii	Lifejackets manufactured after 1 January 2012 shall be in accordance with ISO 12402–3 (Level 150) and shall be fitted with:	**
	• an emergency light in accordance with either ISO 12402-8 or SOLAS LSA code 2.2.3.	
	• a sprayhood in accordance with ISO 12402-8.	
	• a full deck safety harness in accordance with ISO 12401 (ISO 1095) including a	
	crotch or thigh strap (holding down device) as specified in ISO 12401 (ISO 1095). • If of an inflatable type either	
	(a) automatic, manual and oral inflation or	
	(b) manual and oral inflation	
	Notes: ISO 12402 requires Level 150 lifejackets to be fitted with a mandatory	
	whistle and retro-reflective material. Also, when fitted with a safety harness, ISO 12402 requires that this shall be the full safety harness in accordance with ISO 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	
c)	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) <i>j)</i>	clearly marked with the yacht's or wearer's name, It is strongly recommended that a lifejacket has a splashguard / sprayhood See	MoMu1,2,3,4
<i>J/</i>		1401441,2,3,1
	150 12402 - 0,	
5.01.4	ISO $12402 - 8$, The person in charge shall personally check each lifejacket at least once annually.	**
5.02	The person in charge shall personally check each lifejacket at least once annually. Safety Harness and Safety Lines (Tethers)	MoMu0,1,2,3
	The person in charge shall personally check each lifejacket at least once annually. Safety Harness and Safety Lines (Tethers) Each crew member shall have a harness and safety line that complies with ISO	
5.02	The person in charge shall personally check each lifejacket at least once annually. Safety Harness and Safety Lines (Tethers) Each crew member shall have a harness and safety line that complies with ISO 12401 or equivalent with a safety line not more than 2m in length.	MoMu0,1,2,3
5.02	The person in charge shall personally check each lifejacket at least once annually. Safety Harness and Safety Lines (Tethers) 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.	MoMu0,1,2,3
5.02 5.02.1	The person in charge shall personally check each lifejacket at least once annually. Safety Harness and Safety Lines (Tethers) 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.	MoMu0,1,2,3 MoMu0,1,2,3
5.02	The person in charge shall personally check each lifejacket at least once annually. Safety Harness and Safety Lines (Tethers) 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. Warning it is possible for a plain snaphook to disengage from a U bolt if	MoMu0,1,2,3
5.02 5.02.1	The person in charge shall personally check each lifejacket at least once annually. Safety Harness and Safety Lines (Tethers) 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. Warning it is possible for a plain snaphook to disengage from a U bolt if the hook is rotated under load at right-angles to the axis of the U-bolt.	MoMu0,1,2,3 MoMu0,1,2,3
5.02 5.02.1 a)	The person in charge shall personally check each lifejacket at least once annually. Safety Harness and Safety Lines (Tethers) 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. Warning it is possible for a plain snaphook to disengage from a U bolt if the hook is rotated under load at right-angles to the axis of the U-bolt. For this reason the use of snaphooks with positive locking devices is strongly recommended.	MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3
5.02 5.02.1	The person in charge shall personally check each lifejacket at least once annually. Safety Harness and Safety Lines (Tethers) 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. Warning it is possible for a plain snaphook to disengage from a U bolt if the hook is rotated under load at right-angles to the axis of the U-bolt. For this reason the use of snaphooks with positive locking devices is strongly recommended. At least 30% of the crew shall each, in addition to the above be provided with	MoMu0,1,2,3 MoMu0,1,2,3
5.02 5.02.1 a)	The person in charge shall personally check each lifejacket at least once annually. Safety Harness and Safety Lines (Tethers) 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. Warning it is possible for a plain snaphook to disengage from a U bolt if the hook is rotated under load at right-angles to the axis of the U-bolt. For this reason the use of snaphooks with positive locking devices is strongly recommended. At least 30% of the crew shall each, in addition to the above be provided with either:-	MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3
5.02 5.02.1 a) 5.02.2 a)	The person in charge shall personally check each lifejacket at least once annually. Safety Harness and Safety Lines (Tethers) 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. Warning it is possible for a plain snaphook to disengage from a U bolt if the hook is rotated under load at right-angles to the axis of the U-bolt. For this reason the use of snaphooks with positive locking devices is strongly recommended. At least 30% of the crew shall each, in addition to the above be provided with either:- a safety line not more than 1m long, or	MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3
5.02 5.02.1 a)	The person in charge shall personally check each lifejacket at least once annually. Safety Harness and Safety Lines (Tethers) 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. Warning it is possible for a plain snaphook to disengage from a U bolt if the hook is rotated under load at right-angles to the axis of the U-bolt. For this reason the use of snaphooks with positive locking devices is strongly recommended. At least 30% of the crew shall each, in addition to the above be provided with either:- a safety line not more than 1m long, or a mid-point snaphook on a 2m safety line A safety line purchased in January 2001 or later shall have a coloured flag	MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3
5.02 5.02.1 a) 5.02.2 a) b)	The person in charge shall personally check each lifejacket at least once annually. Safety Harness and Safety Lines (Tethers) 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. Warning it is possible for a plain snaphook to disengage from a U bolt if the hook is rotated under load at right-angles to the axis of the U-bolt. For this reason the use of snaphooks with positive locking devices is strongly recommended. At least 30% of the crew shall each, in addition to the above be provided with either:- a safety line not more than 1m long, or a mid-point snaphook on a 2m safety line A safety line purchased in January 2001 or later shall have a coloured flag embedded in the stitching, to indicate an overload. A line which has been	MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3
5.02.1 a) 5.02.2 a) b) 5.02.3	The person in charge shall personally check each lifejacket at least once annually. Safety Harness and Safety Lines (Tethers) 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. Warning it is possible for a plain snaphook to disengage from a U bolt if the hook is rotated under load at right-angles to the axis of the U-bolt. For this reason the use of snaphooks with positive locking devices is strongly recommended. At least 30% of the crew shall each, in addition to the above be provided with either:- a safety line not more than 1m long, or a mid-point snaphook on a 2m safety line A safety line purchased in January 2001 or later shall have a coloured flag embedded in the stitching, to indicate an overload. A line which has been overloaded shall be replaced as a matter of urgency.	MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3
5.02.1 a) 5.02.2 a) b) 5.02.3	The person in charge shall personally check each lifejacket at least once annually. Safety Harness and Safety Lines (Tethers) 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. Warning it is possible for a plain snaphook to disengage from a U bolt if the hook is rotated under load at right-angles to the axis of the U-bolt. For this reason the use of snaphooks with positive locking devices is strongly recommended. At least 30% of the crew shall each, in addition to the above be provided with either:- a safety line not more than 1m long, or a mid-point snaphook on a 2m safety line 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. A crew member's lifejacket and harness shall be compatible	MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3
5.02.1 a) 5.02.2 a) b) 5.02.3	The person in charge shall personally check each lifejacket at least once annually. Safety Harness and Safety Lines (Tethers) 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. Warning it is possible for a plain snaphook to disengage from a U bolt if the hook is rotated under load at right-angles to the axis of the U-bolt. For this reason the use of snaphooks with positive locking devices is strongly recommended. At least 30% of the crew shall each, in addition to the above be provided with either:- a safety line not more than 1m long, or a mid-point snaphook on a 2m safety line A safety line purchased in January 2001 or later shall have a coloured flag embedded in the stitching, to indicate an overload. A line which has been overloaded shall be replaced as a matter of urgency.	MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3
5.02.1 a) 5.02.2 a) b) 5.02.3 5.02.4 5.02.5	The person in charge shall personally check each lifejacket at least once annually. Safety Harness and Safety Lines (Tethers) 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. Warning it is possible for a plain snaphook to disengage from a U bolt if the hook is rotated under load at right-angles to the axis of the U-bolt. For this reason the use of snaphooks with positive locking devices is strongly recommended. At least 30% of the crew shall each, in addition to the above be provided with either:- a safety line not more than 1m long, or a mid-point snaphook on a 2m safety line 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. A crew member's lifejacket and harness shall be compatible It is strongly recommended that:-	MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3
5.02.1 a) 5.02.2 a) b) 5.02.3 5.02.4 5.02.5 a) b)	The person in charge shall personally check each lifejacket at least once annually. Safety Harness and Safety Lines (Tethers) 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. Warning it is possible for a plain snaphook to disengage from a U bolt if the hook is rotated under load at right-angles to the axis of the U-bolt. For this reason the use of snaphooks with positive locking devices is strongly recommended. At least 30% of the crew shall each, in addition to the above be provided with either:- a safety line not more than 1m long, or a mid-point snaphook on a 2m safety line 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. A crew member's lifejacket and harness shall be compatible It is strongly recommended that:- static safety lines should be securely fastened at work stations; A harness should be fitted with a crotch strap or thigh straps.	MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3
5.02 5.02.1 a) 5.02.2 a) b) 5.02.3 5.02.4 5.02.5 a)	The person in charge shall personally check each lifejacket at least once annually. Safety Harness and Safety Lines (Tethers) 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. Warning it is possible for a plain snaphook to disengage from a U bolt if the hook is rotated under load at right-angles to the axis of the U-bolt. For this reason the use of snaphooks with positive locking devices is strongly recommended. At least 30% of the crew shall each, in addition to the above be provided with either:- a safety line not more than 1m long, or a mid-point snaphook on a 2m safety line 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. A crew member's lifejacket and harness shall be compatible It is strongly recommended that:- static safety lines should be securely fastened at work stations;	MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3
5.02.1 a) 5.02.2 a) b) 5.02.3 5.02.4 5.02.5 a) b)	Safety Harness and Safety Lines (Tethers) 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. Warning it is possible for a plain snaphook to disengage from a U bolt if the hook is rotated under load at right-angles to the axis of the U-bolt. For this reason the use of snaphooks with positive locking devices is strongly recommended. At least 30% of the crew shall each, in addition to the above be provided with either:- a safety line not more than 1m long, or a mid-point snaphook on a 2m safety line 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. A crew member's lifejacket and harness shall be compatible It is strongly recommended that:- static safety lines should be securely fastened at work stations; A harness should be fitted with a crotch strap or thigh straps. to draw attention to wear and damage, stitching on harness and safety lines should be of a colour contrasting strongly with the surrounding material; snaphooks should be of a type which will not self-release from a U-bolt (see OSR)	MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3
5.02 5.02.1 a) 5.02.2 a) b) 5.02.3 5.02.4 5.02.5 a) b)	The person in charge shall personally check each lifejacket at least once annually. Safety Harness and Safety Lines (Tethers) 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. Warning it is possible for a plain snaphook to disengage from a U bolt if the hook is rotated under load at right-angles to the axis of the U-bolt. For this reason the use of snaphooks with positive locking devices is strongly recommended. At least 30% of the crew shall each, in addition to the above be provided with either:- a safety line not more than 1m long, or a mid-point snaphook on a 2m safety line 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. A crew member's lifejacket and harness shall be compatible It is strongly recommended that:- static safety lines should be securely fastened at work stations; A harness should be fitted with a crotch strap or thigh straps. to draw attention to wear and damage, stitching on harness and safety lines should be of a colour contrasting strongly with the surrounding material; snaphooks should be of a type which will not self-release from a U-bolt (see OSR 5.02.1(a)) and which can be easily released under load (crew members are	MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3
5.02 5.02.1 a) 5.02.2 a) b) 5.02.3 5.02.4 5.02.5 a) b)	Safety Harness and Safety Lines (Tethers) 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. Warning it is possible for a plain snaphook to disengage from a U bolt if the hook is rotated under load at right-angles to the axis of the U-bolt. For this reason the use of snaphooks with positive locking devices is strongly recommended. At least 30% of the crew shall each, in addition to the above be provided with either:- a safety line not more than 1m long, or a mid-point snaphook on a 2m safety line 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. A crew member's lifejacket and harness shall be compatible It is strongly recommended that:- static safety lines should be securely fastened at work stations; A harness should be fitted with a crotch strap or thigh straps. to draw attention to wear and damage, stitching on harness and safety lines should be of a colour contrasting strongly with the surrounding material; snaphooks should be of a type which will not self-release from a U-bolt (see OSR)	MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3 MoMu0,1,2,3

e)	a crew member before a race should adjust a harness to fit then retain that	MoMu0,1,2,3
5.02.6	harness for the duration of the race. 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	
<i>b)</i>	it is recommended that a foul weather suit should be fitted with marine-grade retro-reflective material, and should have high-visibility colours on its upper parts and sleeve cuffs. See OSR 4.18	**
SECTIO	DN 6 - TRAINING	
6.04	Routine Training On-Board	**
6.04.1	It is recommended that crews should practice safety routines at reasonable intervals including the drill for man-overboard recovery	**
6.05.3	At least one member of the crew shall be familiar with First Aid procedures, hypothermia, drowning, cardio-pulmonary resuscitation and relevant communications systems (see OSR 6.02.7 and 6.03.3).	MoMu3,4
6.05.4	An example model first aid training course is included in Appendix N.	**
ADDEN	DICES TO SPECIAL DECILIATIONS	

APPENDICES TO SPECIAL REGULATIONS

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 K - Moveable and Variable Ballast

end of file

Tue 13 Jan 15 11:53:59