

NOTICE OF RACE AMENDMENT 3

**REMOVE**

- 1.4 **Assembly Date:** [not earlier than 8 weeks before the start date; which will be announced at the end of March 2010]; the date by which a *Boat* is required to be in the *Alicante Assembly Area*

**REPLACE WITH**

- 1.4 **Assembly Date:** 0900 3<sup>rd</sup> October 2011 the date by which a *Boat* is required to be in the *Alicante Assembly Area*

**REMOVE**

- 1.6 **Commercial Participation Agreement (CPA):** An agreement entered into between the *Participant* and the *OA*, the *Commercial Participation Agreement*.

**REPLACE WITH (and all other references)**

- 1.6 **Commercial Participation Protocol (CPP):** An agreement entered into between the *Participant* and the *OA*, the *Commercial Participation Protocol*.

**REMOVE**

- 1.19 **Old:** in relation to *Boats* and equipment (sails, masts, booms and appendages) is equipment that had been measured, signed and assigned a number by the rules management group under either Volvo Open 70 Class Rule v1 or v2 and which existed prior to 29<sup>th</sup> June 2009 these numbers shall be recorded by the *Participant* on the same form containing the *Serial Numbers* for *New* equipment which will be posted on the notice board. <http://NoticeBoard.VolvoOceanRace.com>

**REPLACE WITH**

- 1.19 **Old:** in relation to *Boats* and equipment (sails, masts, booms and appendages) is equipment that had been measured, signed and assigned a number by the rules management group under either Volvo Open 70 Class Rule v1 or v2 and/or which existed prior to 29<sup>th</sup> June 2009 these numbers shall be recorded by the *Participant* on the same form containing the *Serial Numbers* for *New* equipment which will be posted on the notice board. <http://NoticeBoard.VolvoOceanRace.com>

**ADD TO DEFINITIONS**

- 1.28 **Racing:** Has the same meaning as the *RRS* definition.

(Re-number definitions 1.28 -1.35)

**REMOVE**

- 3.1.3 To guarantee the delivery of *NOR* Appendix B Equipment and Services to the specifications and the delivery schedule outlined in *NOR* Appendix B, payments must be made no later than those in *NOR* 3.1.3 (b) and (c); any late payment may result in a delay to delivery. However the full equipment and services fee and the *Race* deposit must be received by the *OA* before 1<sup>st</sup> August 2011 for the *Participant* to start in the *Race*.

**REPLACE WITH**

- 3.1.3 To guarantee the delivery of *NOR* Appendix B Equipment and Services to the

specifications and the delivery schedule outlined in *NOR* Appendix B, payments must be made no later than those in *NOR* 3.1.3 (b) and (c); any late payment may result in a delay to delivery. However the full equipment and services fee and the *Race* deposit must be received by the *OA* before 1<sup>st</sup> August 2011 for the *Participant* to start in the *Race* unless the *OA* has received less than 10 official entries.

**REMOVE**

- 4.2 In addition; after the *Assembly Date* and prior to the start of the first *In-Port race* in Alicante; following the complete installation of the supplied equipment each *Boat* entered in the *Race* shall compete in an *OA* organised, qualification race or passage of at least 600 nautical miles to test various items of supplied equipment. ~~Details of the date and course shall be provided before the 15<sup>th</sup> May 2011.~~

**REPLACE WITH**

- 4.2 In addition; after the *Assembly Date* and prior to the start of the first *In-Port race* in Alicante; following the complete installation of the supplied equipment each *Boat* entered in the *Race* shall compete in an *OA* organised, qualification race or passage of at least 600 nautical miles to test various items of supplied equipment. The qualification race will start on Friday 7<sup>th</sup> October 2011.

**REMOVE**

- 5.3.2 After the 29<sup>th</sup> June 2009 when, during the repair or alteration of an *Old* sail, *New Pre-Race Sail* or *Race Sail* the combined total of replacement fabric in excess of:

- (a) 35 sq meters for Mainsails
- (b) 25 sq meters Headsails & Staysails
- (c) 120 sq meters for Spinnakers
- (d) 80 sq meters for Spinnakers that comply with Volvo Open 70 Rule v.3 section 11.3.9.

Will result in that sail being declared as another *New* sail and issued with a replacement *Serial Number* and will be added to the *Boats* total number of *New* sails. The area of fabric or reinforcement placed over existing fabric shall not be included when determining the total area. However, the replacement (being the removal of the fabric and its subsequent replacement) of fabric in excess of those in *NOR* 5.3.2 (a), (b), (c) or (d) will be.

**REPLACE WITH**

- 5.3.2 After the 29<sup>th</sup> June 2009 when, during the repair or alteration of an *Old* sail, *New Pre-Race Sail* or *Race Sail* the combined total of replacement fabric is in excess of 25% of the total surface area of the sail: will result in that sail being declared as another *New* sail and issued with a replacement *Serial Number* and will be added to the *Boats* total number of *New* sails. The area of fabric or reinforcement placed over existing fabric shall not be included when determining the total area. However, the replacement (being the removal of the fabric and its subsequent replacement) of fabric in excess of that in *NOR* 5.3.2 will be.

**REMOVE**

5.4.1 When a *Participant* enters only 1 *Boat* they may build or acquire a maximum of 2 *New* masts and 2 *New* booms. When a *Participant enters 2 Boats* the total number of *New* masts and *New* booms will be 3. A *Participants New* mast and boom tubes shall be constructed using the same tooling (moulds or mandrels).

**REPLACE WITH**

5.4.1 When a *Participant* enters only 1 *Boat* they may build or acquire a maximum of 2 *New* masts and 2 *New* booms. When a *Participant enters 2 Boats* the total number of *New* masts and *New* booms will be 3. **All of a *Participants New* mast and boom tubes** shall be constructed using the same **mast or boom** tooling (moulds or mandrels).

**ADD TO**

- 5.7.3 (a)
- (i) NYYC 156<sup>th</sup> Anniversary Regatta 12th-13<sup>th</sup> June 2010
  - (ii) Newport-Bermuda Race 19<sup>th</sup> June 2010
  - (iii) Sevenstar Round Great Britain & Ireland Race 23<sup>rd</sup> August 2010
  - (iv) Fastnet Race 14<sup>th</sup> August 2011

**REMOVE**

6.1.1 The *Person in Charge* or the *Reserve Person in Charge* shall be on board the *Boat* at all times.

**REPLACE WITH**

6.1.1 **For all *Pro-Am, In-Port races and Legs* the *Person in Charge* or the *Reserve Person in Charge* and the *Media Crew Member* shall be on board the *Boat* at all times **while Racing**.**

**REMOVE**

6.1.2 The minimum number of *Crew Members* onboard while racing shall be 7.

**REPLACE WITH**

6.1.2 **For all *Legs* the minimum number of *Crew Members* onboard while **Racing** shall be 7.**

**REMOVE**

6.4.1 All *Crew Members* and *Media Crew Members* shall:

- (a) Attend the 2 day safety course organised by OA at an advanced training facility which shall include basic life support training
- (b) Be able to demonstrate at any time from the *Assembly Date* and prior to the start of the *Race* until the finish of the *Race*, emergency drills including MOB recovery in different weather conditions, the operation of safety equipment and the operation of all communications equipment on board, including the making of distress calls
- (c) Together with senior team management, attend a full day of media training to be held in Alicante after the *Assembly* date and prior to the start of the *Race*

- 6.4.2** As a minimum 2 *Crew Members* referred to in *NOR* 6.2.4 shall attend a 2 day medical briefing to be held after the *Assembly Date* and before the start of the *Race*. They or their replacements may further be required to attend a refresher course to be conducted at a *Port* during the *Race*.
- 6.4.3** 2 *Crew Members* from each *Boat* shall attend a one day Volvo Penta training day in Alicante between the *Assembly Date* and the start.
- 6.4.4** The *Person in Charge*, *Reserve Person in Charge* and navigators shall attend a half day briefing covering emergency procedures with members of the Maritime Rescue Coordination Centre: held in Alicante after the *Assembly Date* and prior to the start.
- 6.4.5** *Crew Members* and *Media Crew Members* who fail to attend scheduled briefings or training days during the *Assembly Period* or who join a *Boat* after these briefings or training days shall prior to racing be required to attend similar briefings at a time and a standard to be determined by the *OA*. The costs associated with attending the briefing or training shall be borne by the *Participant*. It is also strongly recommended that planned substitute *Crew Members* or *Media Crew Members* attend the original briefings and training during the *Assembly Period*.

**REPLACE WITH**

- 6.4.1** All *Crew Members* and *Media Crew Members* shall:
- (a) Attend the 2 day safety course organised by *OA* at an advanced training facility which shall include basic life support training, 2 x teams can attend each session, the session dates are:  
22<sup>nd</sup>-23<sup>rd</sup> August 2011 (full)  
24<sup>th</sup>-25<sup>th</sup> August 2011  
27<sup>th</sup>-28<sup>th</sup> August 2011  
29<sup>th</sup>-30<sup>th</sup> August 2011  
1<sup>st</sup>-2<sup>nd</sup> September 2011 (full)  
A maximum of two teams can attend each session; positions will be allocated to official entrants on a first come first-first served basis
  - (b) Be able to demonstrate at any time from the *Assembly Date* and prior to the start of the *Race* until the finish of the *Race*, emergency drills including MOB recovery in different weather conditions, the operation of safety equipment and the operation of all communications equipment on board, including the making of distress calls
  - (c) Together with senior team management, attend a full day of media training to be held in Alicante 24th October 2011
- 6.4.2** As a minimum 2 *Crew Members* referred to in *NOR* 6.2.4 shall attend a 2 day medical briefing to be held on the 4<sup>th</sup> and 5<sup>th</sup> October 2011. They or their replacements may further be required to attend a refresher course to be conducted at a *Port* during the *Race*.
- 6.4.3** 2 *Crew Members* from each *Boat* shall attend a one day; Volvo Penta training day in Alicante between the *Assembly Date* and the start. Following the *Assembly Date* the Volvo Penta technician will coordinate with teams on a date that is suitable.
- 6.4.4** The *Person in Charge*, *Reserve Person in Charge* and navigators shall attend a half day briefing covering emergency procedures with members of the Maritime Rescue Coordination Centre: held in Alicante 25th October 2011.

- 6.4.5** *Crew Members* and *Media Crew Members* who fail to attend scheduled briefings or training days ~~after the Assembly Date~~ or who join a *Boat* after these briefings or training days shall prior to racing be required to attend similar briefings at a time and to a standard to be determined by the OA. The costs associated with attending the briefing or training shall be borne by the *Participant*. It is ~~also~~ strongly recommended that planned substitute *Crew Members* or *Media Crew Members* attend the original briefings **or training sessions**, ~~and any training after the Assembly Date.~~

**REMOVE**

- 7.3** Unless otherwise instructed by the OA: two guests shall be on board during *In-Port* races. The OA shall nominate one of the two guests.

**REPLACE WITH**

- 7.3** Unless otherwise instructed by the OA: **three (3)** guests shall be on board during *In-Port* races. The OA shall nominate one of the **guests; the Participant shall nominate one of the guests. The remaining guest allocation shall be agreed between the OA and the Participant with the OA having 40% and the Participant 60% of the available positions.**

**REMOVE**

- 8.1** Within 30 days of becoming an official entry or 30 days after the *Commercial Participation Agreement* is issued; each *Participant* or its representative shall sign the *Commercial Participation Agreement* in the presence of the OA's CEO or his representative.
- 8.2** By the 10<sup>th</sup> September 2011 each *Participant* shall supply the OA with:
- (a) A *Person in Charge Agreement* signed in front of a member of the OA or their representative by the *Person in Charge*,
  - (b) A *Reserve Person in Charge Agreement* signed in front of a member of the OA or their representative by the *Reserve Person in Charge*,
  - (c) A confirmation list of the *Pre Race Sails*; signed in front of a member of the OA or their representative by the *Participant* or its representative and the *Person in Charge*.
  - (d) A completed *Boat Information Form*.
- 8.2.1** The original signed declarations of the Volvo Open 70 Rule v.3 Appendix B; to the *MG* witnessed by a member of the *MG*. When an original cannot be supplied; the *Participant* shall supply a copy of the original which shall be signed in front of a member of the *MG* or their representative by the *Participant* or its representative and the *Person in Charge*.
- 8.3** No later than 5 days before the start of the qualification race in NOR 4.2, each *Participant* shall supply the OA with or organise for;
- (a) A declaration signed by the *Participant* stating compliance with clause 18.1 and 18.2 (Insurance) of the *Commercial Participation Agreement*
  - (b) The *Crew Member Agreements* to be signed by each *Crew Member* including the *Media Crew Member*, in the presence of a member of the *RC* or their

representative

- (c) The completed Crew Medical Certificates, (NOR 6.2.2)
- (d) The completed Crew Personal Details forms for each *Crew Member* and *Media Crew Member*
- (e) A copy of first aid and medical competency certificates (NOR 6.2.3) and for at least 2 *Crew Members*, (NOR 6.4.2)

**REPLACE WITH**

- 8.1.1 Within 30 days of becoming an official entry, ~~or~~ 30 days after the *Commercial Participation Protocol* is issued **or at a later date as may be agreed with the OA**; each *Participant* or its representative shall sign the *Commercial Participation Protocol* in the presence of the OA's CEO or his representative.
- 8.1.2 **Within 30 days of commencing the construction of any item requiring a declaration under Volvo Open 70 v.3 Appendix B the *Participant* shall supply the original signed declarations to the MG. When an original cannot be supplied; the *Participant* shall supply a copy of the original; which shall be signed in front of a member of the MG or their representative by the *Participant* or its representative and the *Person in Charge*.**
- 8.2 **By 1800hrs 3<sup>rd</sup> October 2011** each *Participant* shall supply the OA with:
  - (a) A *Person in Charge Agreement* signed in front of a member of the OA or their representative by the *Person in Charge*,
  - (b) A *Reserve Person in Charge Agreement* signed in front of a member of the OA or their representative by the *Reserve Person in Charge*,
  - (c) A confirmation list of the *Pre Race Sails*; signed in front of a member of the OA or their representative by the *Participant* or its representative and the *Person in Charge*.
  - (d) A completed *Boat Information Form*.
- 8.3 No later than **1800hrs 3<sup>rd</sup> October 2011**; for the qualification race in NOR 4.2, each *Participant* shall supply the OA with or organise for;
  - (a) A declaration signed by the *Participant* stating compliance with clause 18.1 and 18.2 (Insurance) of the ***Commercial Participant Protocol***
  - (b) The *Crew Member Agreements* to be signed by each *Crew Member* including the *Media Crew Member*, in the presence of a member of the RC or their representative
  - (c) The completed Crew Medical Certificates, (NOR 6.2.2)
  - (d) The completed Crew Personal Details forms for each *Crew Member* and *Media Crew Member*
  - (e) A copy of first aid and medical competency certificates (NOR 6.2.3) and for at least 2 *Crew Members*, (NOR 6.2.4)

**REMOVE**

8.5

- (b) Any amendments or additions to the forms or certificates already held by the OA

**REPLACE WITH**

8.5

- (b) Any amendments or additions to the forms, **declarations** or certificates already held by the OA

**REMOVE**

9.1 All *Boats* shall:

- (a) Be available in Alicante for measurement from the *Assembly Date*
- (b) Be available for inspection, scrutineering or re-measurement by the *MG* or *the RC* at any time from the *Assembly Date* until the final Prize Giving
- (c) Have sails measured at a time allocated by the *MG*
- (d) Be available for a pre start scrutineering no later than 0800 hours on the day of any start with items to be sealed while racing in place
- (e) *Boats* shall have a valid Volvo Open 70 v.3 certificate at the start of an *In-Port race* or a *Leg*

**REPLACE WITH**

9.1 All *Boats* shall:

- (a) **Have completed measurement with the exception of sails, spares, total Boat weight and replacement items prior to the *Assembly Date***
- (b) Be available in Alicante for measurement from the *Assembly Date*
- (c) Be available for inspection, scrutineering or re-measurement by the *MG* or *the RC* at any time from the *Assembly Date* until the final Prize Giving
- (d) Have sails measured at a time allocated by the *MG*
- (e) Be available for a pre start scrutineering no later than 0800 hours on the day of any start with items **required** to be sealed while *Racing* in place **and sealed**
- (f) *Boats* shall have a valid Volvo Open 70 v.3 **Class** Certificate at the start of an *In-Port race* or a *Leg*

**REMOVE**

9.5 When a *Boat* has sustained damage that would preclude it from further participation in the *Race*, the *RC* may authorise the use of a fully measured and certified Volvo Open 70 v.3 as a replacement.

**REPLACE WITH**

9.5 When a *Boat* has sustained damage that would preclude it from further participation

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in the *Race*, the *RC* may authorise the use of another fully measured and certified Volvo Open 70 v.3 with a valid Volvo Open 70 v.3 Class Certificate as a replacement.

### ADD

#### 9.6.1

(i) Battery Boxes

### REMOVE

18.1 The *Race* will start with a *Pro-Am race* in Alicante Spain on Saturday 29<sup>th</sup> October 2011.

### REPLACE WITH

18.1 The *Race* will start with an *In-Port race* in Alicante Spain on Saturday 29<sup>th</sup> October 2011.

### REMOVE

19.1 In Alicante: *Boats* shall be in the *Assembly Area* by ~~TBA~~. Berthing and base positions will be determined by the *OA*. Permission to leave the *Assembly Area* shall be at the discretion of the *RC*.

### REPLACE WITH

19.1 In Alicante: *Boats* shall be in the *Assembly Area* by 0900hrs 3<sup>rd</sup> October 2011. Berthing and base positions will be determined by the *OA*. Permission to leave the *Assembly Area* shall be at the discretion of the *RC*.

### REMOVE

21.1 When a *Leg* finishes at a *Non-Haul-out Stop*, *Boats* shall not use any machinery, systems, devices or other methods of removing the *Boat* from the water or the water from around the *Boat* and shall not use a crane or other method to remove or step the rig or any other item.

21.2 Repairs, replacements or modifications shall only be carried out by a *Crew Member* that will sail on the next *Leg* and only using equipment and spares carried onboard in the previous *Leg*.

21.3 Within 1 hour of docking *Crew Members* that have sailed the last *Leg* and are not sailing the next *Leg* shall have left the *Boat*, only *Crew Members* sailing next *Leg* may board the *Boat*, no other persons, provisions, spares or other equipment shall be taken onboard.

21.4 *Crew Members* sailing the next *Leg* are not required to stay on the *Boat* and may go ashore to do laundry, for meals and to stay in other accommodation.

21.5 *Participants* wishing to conduct visits over the *Boat* or conduct corporate sailing shall get prior written permission from the *RC*. Both the visits and the sailing must be conducted by *Crew Members* eligible to sail the next *Leg*.

21.6 Garbage may be removed from the *Boat*.

21.7 When a *Leg* finishes at a *Non-Haulout Stop* the *Leg SI's* will contain a more

expansive list of permitted and prohibited actions.

**21.8** An infringement of *NOR 21* will be reported to the *IJ* and may result in a protest.

**REPLACE WITH**

**21.1** When a *Leg* finishes at a *Non-Haul-out Stop*, *Boats* shall not use any machinery, systems, devices or other methods of removing the *Boat* from the water or the water from around the *Boat* and shall not use a crane or other method to remove or step the rig or any other item.

**21.2** The mast shall not be removed from the *Boat*.

**21.3** A diver may be used for underwater maintenance and repairs

**21.4** Should a *Boat* require work that would contravene either *NOR 21.1* or *21.2*; the *Participant* shall: prior to commencing the work apply to the *IJ* for permission and shall be bound by their decision.

**21.5** The *Leg SIs* or their addendums may contain further restrictions or permitted activities.

**21.6** An infringement of *NOR 21* will be reported to the *IJ* and may result in a protest.

**APPENDIX A – ADVERTISING REGULATIONS**

**REMOVE**

**7.** The Volvo Ocean Race Trade Marks shall appear on both of the upper outer sleeves of all *Crew Members' and Media Crew Members* foul weather and mid-layer clothing. The area to be left clear for the placement of the logo shall be no less than; height 185 mm x width 150 mm. The colour and location of the logos shall be approved by the *OA*.

**REPLACE WITH**

**7.** The Volvo Ocean Race Trade Mark shall appear on both of the upper outer sleeves of all *Crew Members* clothing at a size of no less than 100mm height. Additionally an area surrounding the trademark of no less than 185 mm high x 150 mm wide shall be left clear of any other graphics or commercial marks.



Additionally, all upper body garments (tee shirts, polo's, jackets, fleeces and foul weather gear) worn by *Crew Members* during the *Race*, both onboard and, whilst on *Participant* business onshore (including public & media appearances, appearances at

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prize-givings, etc), shall display the following information on the back shoulder panel, positioned across the shoulder blades:

- (a) The legal surname of the *Crew Member*, applied with transfer or similar method lettering of a height of 60mm. Centred; and,
- (b) Adjacent to the left of (a), a graphic device to be supplied by the OA, also of 60mm height and applied by transfer or other method, signifying the nationality of the *Crew Member*, as set out in Exhibit 1 below

Exhibit 1:



The lettering used to denote the legal surname of the *Crew Member* shall be realised using the font "DIN Bold" and shall be reproduced in a colour which is sufficiently contrasted with the background colour of the garments as to be clearly visible. Use of reflective materials is not permitted.

If more than one *Crew Member* shares the same legal surname, then the surname shall be preceded by the first initial of the *Crew Member's* first name.

If any *Crew Member* has a surname; which cannot be easily accommodated on any garment at a height of 60mm, then the surname shall be abbreviated in a manner to be agreed with the OA.

Stylized flag devices can be obtained from Volvo Ocean Race, S.L.U.

Formal and ceremonial clothing worn by *Crew Members* is exempted from this requirement.

### **REMOVE**

8. The class insignia (described in Volvo Open 70 Rule v.3 Appendix A) shall be placed as close to the top of the mainsail as reasonably possible leaving a gap no less than 0.30 m between the insignia and the top of the mainsail. The class insignia may be placed at the same height on both sides of the mainsail. The background area of the insignia shall be such that the reverse insignia can not be seen through the sail.

Example



**REPLACE WITH**

8. The class insignia (described in Volvo Open 70 Rule v.3 Appendix A) shall be placed as close to the top of the mainsail as reasonably possible leaving a gap no less than 0.30 m between the insignia and the top of the mainsail. The class insignia may be placed at the same height on both sides of the mainsail. As a minimum both sides of the head of the mainsail including the background area of the insignia shall be painted or similar, the lower edge of this area shall not be less than 200mm below the lowest point of the insignia at an approximate angle of 90 degrees to the back of the mast. The background area shall be such that the reverse insignia cannot be seen through the sail.

**Example**



Background colour is an indication only

**APPENDIX B SECTION B**

**REMOVE**

**B. 4**

**(g) Cameras, Microphones and Media Recording**

This system will consist of five fixed cameras and three fixed microphones connected to a switching unit. The switching unit, cameras, microphones and recording devices may be controlled through the console or any of the on board computers that are connected to the wired LAN provided with the media desk. An instant recording facility with retrospective recording will be provided. Two remote control buttons (supplied) shall be located within reach of the helmsman to

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activate the retrospective recording. Another remote control button shall be located in the hatchway within easy reach. A headset and microphone for live video conferencing will be supplied. Hand-held camcorders will be supplied by the OA. A video connection breakout box (supplied) shall be positioned in close proximity to the main hatch.

The fixed cameras shall be positioned as follows:

- (i) 1 roll compensated camera shall be positioned as per Volvo Open 70 Class Rule v3 section 4.10 (camera weight including mounting frame 2.85kg plus cabling)
- (ii) 2 PTZ cameras with 1 mounted to a flat surface (340mm x 160mm) on the underside of each lower spreader with a minimum distance from the mast wall of 200mm (each camera weight 3.0kg plus cabling)
- (iii) 1 roll compensated camera shall be mounted to the mast instrument bracket between 400mm and 600mm above MD with a clear uninterrupted view aft (camera weight including mounting frame 2.75kg plus cabling)
- (iv) 1 fixed handycam with a wide angled lens (~1.0kg) shall be mounted using the supplied bracket; in the navigation station with a clear view of a person seated in the navigation station. The area behind the navigation station should be painted white to improve lighting.

### Microphones

- (i) The mast camera and navigation station camera will have associated microphones.
- (ii) One waterproof microphone shall be mounted on the aft face of the coachroof, adjacent to the main companionway hatch. The other waterproof microphone shall be mounted or have a connection jack point on the aft Ariel mast or in a similar position as agreed by the Race Committee or its representative
- (iii) Two radio microphones in water resistant cases with the receiver built into the media desk.

All media infrastructure cables (audio and video) will be the same size and weight as enhanced Cat 5 cable (~43g/m).

### Weights and dimensions for each unit:

Cable & misc. attachments:	approx. 4kg
Navigation station camera	1.00kg.
Sound equipment:	1.0kg.
Video breakout box:	0.5Kg, approx. 120mm x 80mm x 60mm
Approximate total weight:	6.5kg.

The estimated power consumption is less than 40 watts when all in use.

**REPLACE WITH**

**B. 4**

**(g) Cameras, Microphones and Media Recording**

This system will consist of five fixed cameras and three fixed microphones connected to a switching unit. The switching unit, cameras, microphones and recording devices may be controlled through the console or any of the on board computers that are connected to the wired LAN provided with the media desk. An instant recording facility with retrospective recording will be provided. Two remote control buttons (supplied) shall be located within reach of the helmsman to activate the retrospective recording. Another remote control button shall be located in the hatchway within easy reach. A headset and microphone for live video conferencing will be supplied. Hand-held camcorders will be supplied by the OA. A video connection breakout box (supplied) shall be positioned in close proximity to the main hatch.

**1. The fixed cameras shall be positioned as follows:**

- (i) 1 roll compensated camera shall be positioned as per Volvo Open 70 Class Rule v3 section 4.10 (camera weight including mounting frame 2.85kg plus cabling)
- (ii) \*2 PTZ cameras with 1 mounted to a flat surface (340mm x 160mm) on the underside of each lower spreader with a minimum distance from the mast wall of 200mm (each camera weight is approx 3.0kg plus cabling)
- (iii) \*1 roll compensated camera shall be mounted to the mast instrument bracket between 400mm and 600mm above MD with a clear uninterrupted view aft (camera weight including mounting frame 2.75kg plus cabling)
- (iv) 1 fixed handycam with a wide angled lens (~1.0kg) shall be mounted using the supplied bracket; in the navigation station with a clear view of a person seated in the navigation station. The area behind the navigation station should be painted white to improve lighting.

- These cameras and their frames are not included in the mast weight requirements of Volvo Open 70 Rule v.3 section 10.2

**2. Microphones**

- (i) The mast camera and navigation station camera will have associated microphones.
- (ii) One waterproof microphone shall be mounted on the aft face of the coachroof adjacent to the main companionway hatch. The other waterproof microphone shall be mounted and/or have one or more connection jack points on the aft Aerial frame or in a similar position as agreed by the RC or Its representative
- (iii) Two radio microphones in water resistant cases with the receiver built into the media desk.

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Weights and dimensions for each unit:

Cable & misc. attachments:	approx. 4kg
Navigation station camera	1.00kg.
Sound equipment:	1.0kg.
Video breakout box:	0.5Kg, approx. 120mm x 80mm x 60mm
Approximate total weight:	6.5kg.

The estimated power consumption is less than 40 watts when all in use.

**ADD**

As the last paragraph of Appendix B4 (h)

Livewire Digital will supply all media infrastructure cabling: (audio and video) and will be the same size and weight as enhanced Cat 5 cable (~43g/m, OD 7mm). The 2 PTZ cameras have an additional 2 core power cable which is ~51g/m with an OD 7mm

**REMOVE**

**B. 4**

**(i) Data Computer**

A small self-contained computer, powered from the Inmarsat mini-C, shall be connected to the onboard instruments, the Inmarsat Standard C position reporting transceiver and the Wave Height Sensor (described below). The cable to connect the Inmarsat mini-C to the data computer will be approximately 1.0m long. The following fully populated output NMEA sentences shall be provided by the *Boats* instrument system, from a single source, for input into the data computer with the format as detailed below.

Data Format:	NMEA 0183 version 3.01
Talker ID:	Unrestricted
Frequency:	1 HZ
Sentence:	Containing:
VHW	True boat heading and boat speed in knots
MWD	True wind direction and speed in knots
MTW	Water temperature in degrees Celsius

Weights and dimensions for each unit:

Computer:	1kg, 180mm x 140mm x 80mm (IP68 rated case)
Cable & misc. attachments:	1kg.
Approximate total weight:	2 kg.

The system runs on 12-24 volts and has a nominal average power consumption of 2 watts.

**REPLACE WITH**

**B. 4**

**(i) Data Computer**

A small self-contained computer, powered from the Positioning Inmarsat mini-C UPS, shall be connected to the onboard instruments, the Inmarsat mini-C position reporting transceiver and the Wave Height Sensor (described below).

Data Format: NMEA 0183 version 3.01  
Talker ID: Unrestricted  
Frequency: 2 HZ  
Sentence: Containing:  
VHW True boat heading and boat speed in knots  
MWD True wind direction and speed in knots  
MTW Water temperature in degrees Celsius  
RMC Boat position, SOG, COG and time/date  
XDR Containing keel cant angle information; as described in the paragraph below.

XDR Sentence Detail:  
XDR Sentence to have the following format (checksum required but not shown for clarity):

\$--XDR...A,x.x,D,KeelAngle,...

Where the Keel Angle block can appear at any point within the sentence (ie preceding and trailing data appended into the sentence will be ignored), with "A" for angular measurement, "x.x" the keel angle, with negative values being for the keel to port, positive value for keel to starboard and 0 being vertically downward, "D" for degrees and "KeelAngle" (no space between) for the identifier. Although the actual angle may have digits after the decimal point they will be ignored, only whole integer values will be used with no rounding

**Weights and dimensions for each unit:**

Computer:	1kg, 180mm x 140mm x 80mm (IP68 rated case)
Cable & misc. attachments:	1kg.
Approximate total weight:	2 kg.

The system runs on 12-24 volts and has a nominal average power consumption of 2 watts.

**APPENDIX B SECTION C  
SAFETY REGULATIONS AND NON-SUPPLIED EQUIPMENT REQUIREMENTS**

**ADD**

**Headings underlined in this section indicate an item that may be removed for Pro Am and In-Port races.**

**ADD TO**

**SECTION C**

- (7) **Desalination Units:** Two (additional to the one stowed in each life raft) hand desalination units, one of which shall be capable of desalinating 100 litres per day. This unit shall have an ergonomically sound mounting to facilitate routine water

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production in the event of a failure in the motor driven desalination units. The second unit shall be capable of desalinating 25 litres of water per day. Both shall be stored in the Emergency Equipment Locker refer Volvo Open 70 Rule 12.6.1.

**REMOVE**

(24) Radar: A Boat shall use either;

- (a) broadband or;
- (b) pulse radar which shall have a power output of not less than 4 kilowatts PEP and be ready for immediate operation and the rotating scanner array shall have a maximum dimension not less than 533mm (21 inches).
- (c) The radar shall be mounted on the front of the mast and in such a way that it remains level at normal angles of heel. No part of the radar casing or base, when the mast is vertical, shall be less than 5.5m above the Reference Point Mid Lower (RPL), (Volvo Open 70 Rule v3 Section 7.5.4), in measurement condition.

**REPLACE WITH**

(24) Radar: A Boat shall use either;

**Only the scanner (or similar) and its mounting bracket may be removed all cabling, tracks etc must remain.**

- (d) broadband or;
- (e) pulse radar which shall have a power output of not less than 4 kilowatts PEP and be ready for immediate operation and the rotating scanner array shall have a maximum dimension not less than 533mm (21 inches).
- (f) The radar shall be mounted on the front of the mast and in such a way that it remains level at normal angles of heel. No part of the radar casing or base, when the mast is vertical, shall be less than 5.5m above the Reference Point Mid Lower (RPL), (Volvo Open 70 Rule v3 Section 7.5.4), in measurement condition.

**ADD TO**

**APPENDIX C – COURSE DETAILS**

(g) Dates and start times

Event	Start Port	Finish Port	Time	Day	Date
<i>Assembly Date</i>	Alicante	-	09:00	Mon	03-Oct-11
Qualifying race	Alicante		14:00	Fri	07-Oct-11
Village opening	Alicante		PM	Fri	14-Oct-11
Measurement	Alicante		20:00	Fri	21-Oct-11

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<b>completed</b>					
<i>Leg 8</i>	Lisbon	*Lorient	14:00	Sun	10-Jun-12
<i>Pro-Am race</i>	Lorient		12:00	Fri	29-Jun-12
<i>In-Port race</i>	Lorient		14:00	Sat	30-Jun-12
<i>Leg 9</i>	Lorient	*Galway	14:00	Sun	01-Jul-12
<i>Pro-Am race</i>	Galway		12:00	Fri	06-Jul-12
<i>In-Port race</i>	Galway		14:00	Sat	07-Jul-12
<i>In-Port race</i>	Galway	Reserve day	TBC	Sun	08-Jul-12

\* **Non-Haulout Stop**