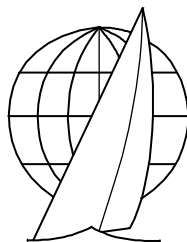


OFFSHORE RACING CONGRESS

World Leader in Rating Technology

Secretariat:

c/o Vivian Rodriguez
Casella Postale 21
07026 Porto Rotondo (OT), Italy
Tel. & Fax: +39 0789 398034
secretariat@orc.org



www.orc.org

UK Office:

Marlborough House
Victoria Road South, Chelmsford
Essex CM1 1LN, U.K.
Tel: +44 1245 495 111
Fax: +44 1245 494 771

Minutes of the **Measurement Committee** held on November 8th, 2009 in Busan, Hotel Paradise.

Present: Nicola Sironi (Chief Measurer)

Per Boeymo
Chris Theodossis
Dimitris Dimou
Ichiro Yokohama

Apologies for absence were received from the other members of the Committee who did not make it to Busan..

Observers:

Wolfgang Schaefer GER	Bruno Finzi ITA	Sten Edholm SWE
Eva Holmsten SWE	Peter Reichelsdorfer USA	Zoran Grubisa CRO
Kjell Marthinsen SWE	Flemming Nielsen DEN	Evgeny Kromchenko RUS
Hans Zuiderbaan NED	Abraham Rosenberg BRA	Nuno Gonzalves POR
George Andreadis GRE	Hoon Seong Cho KOR	

1. The Chief Measurer welcomed the members present and the several observers, and reported about the season activity, especially about the Measurement Conference that was held in Athens on March 6-7th, which was focusing mainly on the use of the Total Station for hull measurement, and was attended by about 40 measurers, coming from many countries of Europe, and from Japan.
2. Submissions allocated to the Committee:
 - 2.1. Spinnaker Area (ARG 1) The Committee does not support the idea of changing again the spinnaker area formulation. It is known that way to calculate the area can be manifold, but the formula adopted last year, shared among many important classes, is the simplest and most known one.
 - 2.2. Use of designer supplied data instead of hull measurement for ORCi certificates (AUS1+NED 6) The Committee appreciated the proposal worked out by ITC and agrees on it in principle, but has some concerns on the validation method, that has to be tested in practice to reduce the degree of uncertainty, and the complication of the validation method to avoid the risk of becoming more complex than the full measurement.
 - 2.3. Default weight for Carbon masts (AUS 2). The Committee appreciated the concept developed by ITC of setting a default value for carbon masts that is obviously lighter than the current one developed for aluminium masts, that led to the requirement of weighing carbon masts for ORCi. It was also noted that an additional indication is going to be implemented to include in the default weight the fact that the boat has steel or fibre rigging.

2.4. Jib Foot with extreme roach (ESP 3) The Committee discussed the known question on how to determine the edge projection when there is a round foot. Being the sail measurement regulated by the Isaf ERS, and the sails measurement guide, it is suggested to reference to those.

2.5. Square top mainsails (FRA 6) The problem arose this year with the development of large roach mainsails, which get a benefit in the area calculation, and in extreme cases have the MGT point falling on the sail top edge and not on the leech.

The matter has been discussed by ITC, and the Committee agrees with its proposal of maintaining the ERS system of identifying the points on the leech from where to measure the widths, and keep the current method of calculating the measured area but recalculate internally in the program the correct area, adjusting the heights at which the measurements are taken, which is affected by the amount of roach.

In case the MGT point falls on the top edge of the sail, the HB value will be taken as MGT.

2.6. Increase number of battens in jibs from 4 to 5 (GER 5) The Committee supports the Submission, maintaining the concept that the battens need to be approximately equally spaced.

2.7. Dacron sails (GRE 2) The Committee agreed, thanks to the informed statement of Peter Reichelsdorfer, that dacron is a brand name for a polyester cloth, so "dacron" is to be replaced by "woven polyester". This simple wording is enough to eliminate from this category laminated sails, being the film clearly distinguishable from any cloth finish.

2.8. Propeller Installations (GRE 3) The Committee supports the Submission, that will reduce the propeller installations to 3 categories; Shaft, Strut and In Aperture. Existing data indicating other types will be defaulted to "shaft".

2.9. Measurement manual (NED 5) The Committee agreed on the proposal. Regarding sails this is covered by the ERS and the Sail Measurement manual of Isaf, so this will be limited to the measurements that are peculiar to the ORC.

3. Hull measurement with Total Station

The Chief Measurer reported about the several training sessions performed in various countries in addition to the general one at the Athens conference. Greece and Germany have purchased a Total Station and performed several hull measurements with it. In other countries as Norway, Sweden, Poland, Slovenia and Italy further measurements have been performed with rented equipments.

4. List of ORC Measurers

The Committee discussed and agreed on the proposal of establishing an international list of ORC measurers who are active and experienced in ORC measurements. The names will be taken from the data uploaded to the database, and Rating Offices are asked to confirm the list of their active measurers.

The meeting continued with the presentation to Rating Officers of a new pilot version of the ORC Manager software, which will include some validation routines to check the data entered, and the new guides on speed and stability that have been made available online.

The meeting adjourned at 18:00