

Submission: **AUS 1**

Reporting committee: **ITC**
MEASUREMENT COMMITTEE
MANAGEMENT COMMITTEE

MEASUREMENT OF HULLS

PROPOSAL

A boat may supply offset files provided by the boat's designer as an alternative to IMS rule B1.2.

1. Change rule B1.2 to

- B1.2 A hull measurement shall be performed to create an OFF file describing the lines of the hull together with appendages by using an ORC approved hull measurement machine or any available measurement instrument capable to produce a list of the points in the co-ordinate system as defined herein and detailed in the "ORC OFF File Format" document. An Off file derived from electronic design data created in a recognised design software application may be used as an alternative to full hull measurement.

2. Add rule B2.2 (f)

- B2.2(f) When a designer submits an Off file created from electronic design files, that offset file shall include stations at 25mm or 1 inch intervals.

3. Change rule B4.2

- B4.1 Any change of the hull, keel or rudder of a model with existing OFF file shall be re-measured again and a new OFF file shall be created, or the designer shall supply a new OFF file in accordance with B2.2. In case of minor changes new measurements may be taken directly on changed parts by taking new dimensions comparing with existing point co-ordinates and changing them to the new values. Any larger changes shall be re-measured using the same method as on the original model.

Current Position

IMS rule A7.2 allows for discretion on the part of the Chief Measurer to allow alternate sources of data. There is no rule specifically allowing design data and full measurement is generally required. Plans, by definition, are out-dated as almost all designs are now completed using recognised CAD or other software applications specific to naval architecture which can analyse geometry to great accuracy, typically up to 9 decimal places.

RATIONALE

The accuracy of electronic design data and the significant increase in the frequency of stations may improve the integrity of the hull model used in the ORC Manager 2 software and VPP. It is generally accepted that the costs in time and financial resources are the inhibiting factors on boats being measured under IMS for the ORC International and ORC Club rules. The change may achieve greater buy-in to the rule by owners and designers.