



AMERICA'S CUP CLASS

PUBLIC INTERPRETATION No 37

April 21, 2007

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In response to the following:

The Notice of Race for the Louis Vuitton Cup allows the Measurement Committee to issue new certificates during the no change period due to:

.....modifications that do not require the yacht to be floated and weighed; or

.....modifications that require the yacht to be floated and weighed;

1. *How does the Measurement Committee determine that a modification does or does not require a yacht to be floated and weighed?*
2. *In the following examples, what would the Measurement Committee determine?*
 - (a) *Change of **appendage** angle.*
 - (b) *Replacement of an **appendage** with one of the same weight and volume.*
 - (c) *Replacement of an **appendage** with one of different weight and volume.*
 - (d) *Removal of an **appendage**.*
 - (e) *Modification to existing **appendage** that results in no measurable change to the weight or how the yacht floats on its MWL.*
 - (f) *Replacement of a spar with one of a different weight.*
 - (g) *Modification(s) to a yacht have been previously proven to make no measurable change to its weight or how it floats on its MWL.*

INTERPRETATION:

Rule 45.2 states:

45.2 The measurement certificate ceases to be valid if there is any change:

- (a) to the yacht's **appendages** except as provided in **ACC Rule** 45.3;

Rule 45.5 states:

45.5 When a certificate is invalidated, a new measurement certificate will be issued following a partial or complete re-measurement, as appropriate.

1. Provided the Measurement Committee is satisfied that the changes to weight, flotation and trim which will result from a proposed modification are reliably and accurately determined by calculations supplied and that the modification will result in no measurable changes in freeboards, a float and weigh are unlikely to be required. For avoidance of doubt, except as permitted by rule 44.1, a change to a yacht's measurement condition configuration which could result in a measurable change in freeboards would require a float and weigh.

Generally there is no measurable change in freeboards when a modification has a buoyancy change of less than +/- 10 kg or a trim moment change of less than +/- 65 kgm.

The Measurement Committee recommends teams submit their modification proposal for review prior to undertaking any modification.

2. The answers below to examples 2 (a-g) refer only to the requirements for weighing and floating, other measurements will be required in most examples to ensure compliance with ACC rules.
 - (a) In the case of a wing **appendage** it is unlikely that a float and weight would be required. Changes to the angle of other **appendages** would be considered on a case by case basis.
 - (b) Provided the **appendage** does not contain ballast it is unlikely a float and weight would be required. In the case of a change involving an **appendage** containing ballast or supporting ballast, a float and weigh would be required.
 - (c) The requirement for a float and weigh in this case would be assessed by the Measurement Committee on a case by case basis. Provided the Measurement Committee is satisfied that the changes to weight, flotation and trim which will result from the proposed replacement are reliably and accurately determined by calculations supplied and that the replacement will result in no measurable changes in freeboards, a float and weigh are unlikely to be required. In the case of a change involving an **appendage** containing **ballast** or supporting a ballasted **appendage** a float and weigh would be required.
 - (d) The requirement for a float and weigh in this case would be assessed by the Measurement Committee on a case by case basis. Provided the Measurement Committee is satisfied that the changes to weight, flotation and trim which will result from the proposed **appendage** removal are reliably and accurately determined by calculations supplied and will result in no measurable changes in freeboards, a float and weigh are unlikely to be required. In the case of an **appendage** removal involving an **appendage** containing ballast or supporting a ballasted appendage a float and weigh would be required.
 - (e) Provided the Measurement Committee is satisfied that the changes to weight, flotation and trim which will result from a proposed modification are reliably and accurately determined by calculations supplied and that the modification will result in no measurable changes in freeboards, a float and weigh are unlikely to be required.
 - (f) Replacement of a yacht's mast, boom or spinnaker pole does not invalidate a yacht's certificate or require a float and weigh provided Rule 44.1 and 45.2 (c) are complied with. The requirement for a float and weigh due to replacement of spars wherein such replacement does not comply with rule 44.1 and 45.2 (c) would be determined on a case by case basis.
 - (g) Refer answer 2(e).

END

This interpretation is made by the CORD Measurement Committee in accordance with Rule 3.3 of Version 5.0 of the America's Cup Class Rule.

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