

# CHALLENGER OF RECORD & DEFENDER

## AMERICA'S CUP 36

### AC75 CLASS RULE AMENDMENT #6 UNANIMOUSLY AGREED AMENDMENT

#### AC75 Class Rule 6.1

##### Proposed amendment:

6.1 Rule 6 applies to all components except:

- (a) supplied components, such as the **foil arm stocks**, **foil arm leading edges**, the **FCS** and the **supplied rigging**;
- (...)

##### Amended language:

6.1 Rule 6 applies to all components except:

- (a) supplied components, such as the **foil arm stocks**, **foil arm leading edges**, the **FCS** and the **supplied rigging**;
- (...)

#### AC75 Class Rule 7.1

##### Proposed amendment:

7.1 Rule 7 applies to all components except:

- (a) supplied components, such as the **foil arms stocks**, **foil arm leading edges**, the **FCS** and the **supplied rigging**; and
- (...)

##### Amended language:

7.1 Rule 7 applies to all components except:

- (a) supplied components, such as the **foil arms stocks**, **foil arm leading edges**, the **FCS** and the **supplied rigging**; and
- (...)

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### AC75 Class Rule 10.1

#### Proposed amendment:

10.1 The mass of components and crew on an **AC75 Class Yacht** shall be:

| Component   | mass<br>(kg)               | x or u<br>(m)         | z or w<br>(m)         |
|---|----------------------------|-----------------------|-----------------------|
| <b>Yacht assembly:</b> (x, y, z) frame  | <b>6520</b>                | <b>8.85 – 9.38</b>    | <b>≤ 0.62</b>         |
| <b>Platform assembly:</b> (x, y, z) frame                                       | <b>*m<sub>P</sub></b>      | <b>*x<sub>P</sub></b> | <b>z<sub>P</sub></b>  |
| <b>Hull, rudder, bowsprit, hardware</b>   | <i>m<sub>H&amp;R</sub></i> |                       | <b>‡0.38</b>          |
| <b>Port foil</b>  | <b>*1385</b>               |                       | <b>*z<sub>F</sub></b> |
| <b>†Port foil arm leading edge and foil arm stock bonded to each other</b>      | 464                        |                       |                       |
| <b>†Port foil arm leading edge</b>  | <b>11.5</b>                |                       |                       |
| <b>Port foil arm fairing/wing/flaps/systems</b>                                 | 921                        |                       |                       |
| <b>Starboard foil</b>   | <b>*1385</b>               |                       | <b>*z<sub>F</sub></b> |
| <b>†Starboard foil arm leading edge and foil arm stock bonded to each other</b> | 464                        |                       |                       |
| <b>†Starboard foil arm leading edge</b>   | <b>11.5</b>                |                       |                       |

(...)

#### Amended language:

10.1 The mass of components and crew on an **AC75 Class Yacht** shall be:

| Component   | mass<br>(kg)               | x or u<br>(m)         | z or w<br>(m)         |
|---|----------------------------|-----------------------|-----------------------|
| <b>Yacht assembly:</b> (x, y, z) frame  | <b>6520</b>                | <b>8.85 – 9.38</b>    | <b>≤ 0.62</b>         |
| <b>Platform assembly:</b> (x, y, z) frame                                       | <b>*m<sub>P</sub></b>      | <b>*x<sub>P</sub></b> | <b>z<sub>P</sub></b>  |
| <b>Hull, rudder, bowsprit, hardware</b>   | <i>m<sub>H&amp;R</sub></i> |                       | <b>‡0.38</b>          |
| <b>Port foil</b>  | <b>*1385</b>               |                       | <b>*z<sub>F</sub></b> |
| <b>†Port foil arm leading edge and foil arm stock bonded to each other</b>      | 464                        |                       |                       |
| <b>†Port foil arm leading edge</b>  | <b>11.5</b>                |                       |                       |
| <b>Port foil arm fairing/wing/flaps/systems</b>                                 | 921                        |                       |                       |
| <b>Starboard foil</b>   | <b>*1385</b>               |                       | <b>*z<sub>F</sub></b> |
| <b>†Starboard foil arm leading edge and foil arm stock bonded to each other</b> | 464                        |                       |                       |
| <b>†Starboard foil arm leading edge</b>   | <b>11.5</b>                |                       |                       |

(...)

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### AC75 Class Rule 10.7

#### Proposed amendment:

10.7 Each **foil** shall be weighed and its centre of mass in a plane parallel to **TRP** shall be determined, including only the components defined as being part of the **foil** in Rules 13.1 and 13.2 (a). When **projected** on to a plane parallel to **TRP**, the distance from the **foil cant** axis to the centre of mass of:

- (a) a **foil arm stock** ~~and a foil arm leading edge bonded to each other~~ shall be 1.204 m; and
- (b) a **foil** shall be at least 2.942 m.

The **foil** vertical centre of mass  $z_f$  in the **platform assembly** shall be computed by orienting the **foil's** measured centre of mass at an angle at which the **foil** is canted to its lowest position.

#### Amended language:

10.7 Each **foil** shall be weighed and its centre of mass in a plane parallel to **TRP** shall be determined, including only the components defined as being part of the **foil** in Rules 13.1 and 13.2 (a). When **projected** on to a plane parallel to **TRP**, the distance from the **foil cant** axis to the centre of mass of:

- (a) a **foil arm stock** and a **foil arm leading edge** bonded to each other shall be 1.204 m; and
- (b) a **foil** shall be at least 2.942 m.

The **foil** vertical centre of mass  $z_f$  in the **platform assembly** shall be computed by orienting the **foil's** measured centre of mass at an angle at which the **foil** is canted to its lowest position.

### AC75 Class Rule 14.1

#### Proposed amendment:

14.1 Details of the **foil arm stocks**, ~~the foil arm leading edges and their attachment to each other~~ have been provided in a document supplied by **COR/D** and the specification will be further developed as described in that document.

#### Amended language:

14.1 Details of the **foil arm stocks**, the **foil arm leading edges** and their attachment to each other have been provided in a document supplied by **COR/D** and the specification will be further developed as described in that document.

### AC75 Class Rule 14.2

#### Proposed amendment:

14.2 Each **foil arm** shall only be constructed from:

- (a) one **foil arm stock**; ~~and~~
- (b) one foil arm leading edge;
- (c) one foil arm fairing; ~~and~~

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~~(b)~~(d) additional material as specified in the document referenced in rule 14.1.

### Amended language:

14.2 Each **foil arm** shall only be constructed from:

- (a) one **foil arm stock**;
- (b) one **foil arm leading edge**;
- (c) one **foil arm fairing**; and
- (d) additional material as specified in the document referenced in rule 14.1

### **AC75 Class Rule 14.3**

#### Proposed amendment:

14.3 For the purposes of Rules 5, except for the **foil arm stock**, ~~the foil arm leading edge, the material to attach the foil arm leading edge to the foil arm stock as specified in the document referenced in rule 14.1, material as specified in rule 14.6 (b)~~ and **foil** systems, any part of the **foil** outside the region described in Rule 13.4 must be part of the **foil arm fairing**.

#### Amended language:

14.3 For the purposes of Rules 5, except for the **foil arm stock**, the **foil arm leading edge**, the material to attach the **foil arm leading edge** to the **foil arm stock** as specified in the document referenced in rule 14.1, material as specified in rule 14.6 (b) and **foil** systems, any part of the **foil** outside the region described in Rule 13.4 must be part of the **foil arm fairing**.

### **AC75 Class Rule 14.5**

#### Proposed amendment:

14.5 No modification of a **foil arm stock** ~~or foil arm leading edge~~ is permitted, except for:

- (a) the surface finish (sanding and painting as permitted in the **foil arm stock** specification);
- ~~(b)~~ the installation and repair of optical fibres in the provided groove or grooves and fairing over;
- ~~(b)~~(c) ~~the attachment and detachment of supplied foil arm leading edges to or from the foil arm stock as specified in the document referenced in rule 14.1 (including surface preparation prior to bonding);~~
- ~~(e)~~(d) the attachment of permitted **foil arm fairings**, which shall only involve the addition of material ~~for bonding the foil arm fairing to the foil arm stocks or to the foil arm leading edge; bonded to the foil arm stocks;~~ no part of the **foil arm stock** ~~or the foil arm leading edge~~ may be removed, except for surface preparation prior to bonding; ~~and~~
- ~~(e)~~ repairs that return the **foil arm stock** to its original state after being damaged in accordance with Rule 5.13; ~~and;~~
- ~~(e)~~(f) ~~the addition of sealing material as specified in rule 14.6 (b)~~

#### Amended language:

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- 14.5 No modification of a **foil arm stock** or **foil arm leading edge** is permitted, except for:
- (a) the surface finish (sanding and painting as permitted in the **foil arm stock** specification);
  - (b) the installation and repair of optical fibres in the provided groove or grooves and fairing over;
  - (c) the attachment and detachment of supplied **foil arm leading edges** to or from the **foil arm stock** as specified in the document referenced in rule 14.1 (including surface preparation prior to bonding);
  - (d) the attachment of permitted **foil arm fairings**, which shall only involve the addition of material for bonding **the foil arm fairing** to the **foil arm stocks** or to the **foil arm leading edge**; no part of the **foil arm stock** or the **foil arm leading edge** may be removed, except for surface preparation prior to bonding;
  - (e) repairs that return the **foil arm stock** to its original state after being damaged in accordance with Rule 5.13; and
  - (f) the addition of sealing material as specified in rule 14.6 (b)

### AC75 Class Rule 14.6

#### Proposed amendment:

- 14.6 No material may be added inside a **foil arm stock** or a foil arm leading edge, except that:
- (a) **foil** systems may pass through the conduit in the foil arm leading edge; and
  - (b) material to seal or avoid water retention may be added to the **foil arm leading edge** conduit identified in the **foil arm stock** specification document referenced in rule 14.1.

#### Amended language:

- 14.6 No material may be added inside a **foil arm stock** or a **foil arm leading edge**, except that:
- (a) **foil** systems may pass through the conduit in the **foil arm leading edge**; and
  - (b) material to seal or avoid water retention may be added to the **foil arm leading edge** conduit identified in the **foil arm stock** specification document referenced in rule 14.1.

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### AC75 Class Rule 35.32

#### Proposed amendment:

#### 35.32 Foil arm fairing

Those parts of a **foil arm** that are not part of the **foil arm stock**, ~~the foil arm leading edge or the assembly of the foil arm leading edge bonded to the foil arm stock~~. Although a **foil arm fairing** may be referred to in the singular, it can comprise several unconnected parts, each attached to a different region of the **foil arm**.

#### Amended language:

#### 35.32 Foil arm fairing

Those parts of a **foil arm** that are not part of the **foil arm stock**, the **foil arm leading edge** or the assembly of the **foil arm leading edge** bonded to the **foil arm stock**. Although a **foil arm fairing** may be referred to in the singular, it can comprise several unconnected parts, each attached to a different region of the **foil arm**.

### AC75 Class Rule 35.33

#### Proposed amendment:

#### 35.33 Foil arm stock

A supplied component forming the structural spar of a **foil arm**, ~~including its leading edge~~. The items included in the **foil arm stock** are defined in the AC75 One Design Foil Arm Assembly drawing.

#### Amended language (note new rule number):

#### 35.34 Foil arm stock

A supplied component forming the structural spar of a **foil arm**. The items included in the **foil arm stock** are defined in the AC75 One Design Foil Arm Assembly drawing.

### AC75 Class Rule 35.33

#### Add new definition:

#### 35.33 Foil arm leading edge

A supplied component that can be attached to the **foil arm stock** following the specifications in the document referenced in rule 14.1.

*Renumber definitions accordingly*

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## AMERICA'S CUP 36

Acceptance of this **AMENDMENT** for:

### Emirates Team New Zealand

Name DAV BERNASCONI (Defender Representative)  
Signature  Date 16/10/19

### Luna Rossa Challenge

Name ..... (Challenge Representative)  
Signature ..... Date .....

### NYYC American Magic

Name ..... (Challenge Representative)  
Signature ..... Date .....

### Ineos Team UK

Name ..... (Challenge Representative)  
Signature ..... Date .....

# CHALLENGER OF RECORD & DEFENDER

## AMERICA'S CUP 36

Acceptance of this **AMENDMENT** for:

### Emirates Team New Zealand

Name ..... (Defender Representative)

Signature ..... Date .....

### Luna Rossa Challenge

Name MAX SIRENA..... (Challenge Representative)

Signature ..... Date 15-10-2019.....

### NYYC American Magic

Name ..... (Challenge Representative)

Signature ..... Date .....

### Ineos Team UK

Name ..... (Challenge Representative)

Signature ..... Date .....



# CHALLENGER OF RECORD & DEFENDER AMERICA'S CUP 36

Acceptance of this **AMENDMENT** for:

## Emirates Team New Zealand

Name ..... (Defender Representative)

Signature ..... Date .....

## Luna Rossa Challenge

Name ..... (Challenge Representative)

Signature ..... Date .....

## NYYC American Magic

Name .. Terry Hutchinson ..... (Challenge Representative)

Signature *Terry Hutchinson* ..... Date .....

## Ineos Team UK

Name ..... (Challenge Representative)

Signature ..... Date .....

# CHALLENGER OF RECORD & DEFENDER AMERICA'S CUP 36

Acceptance of this **AMENDMENT** for:

## Emirates Team New Zealand

Name ..... (Defender Representative)  
Signature ..... Date .....

## Luna Rossa Challenge

Name ..... (Challenge Representative)  
Signature ..... Date .....

## NYC American Magic

Name ..... (Challenge Representative)  
Signature ..... Date .....

## Ineos Team UK

Name ..... (Challenge Representative)  
Signature ..... Date .....

*AMENDMENT  
#6.*

*George Gannett*  
*[Signature]*