

# SOCIETY OF MODEL AERONAUTICAL ENGINEERS LTD

(T/A British Model Flying Association)

## TO ALL TECHNICAL COUNCIL MEMBERS

There will be a Meeting of the Technical Council on Saturday 19<sup>th</sup> March 2016 at 11.00am at Chacksfield House, 31 St Andrew's Road, Leicester LE2 8RE  
Tel: 0116-2440028 Fax: 0116-2440645.

## A G E N D A

- 1 Apologies for Absence.
- 2 Request for permission to be absent.
- 3 To verify the voting strength of the meeting.
- 4 Correction and adoption of the Minutes of the Technical Council Meeting held on 17<sup>th</sup> October 2016.
- 5 Matters/Actions Arising from the meeting on 17<sup>th</sup> October 2016 that are not included elsewhere on this Agenda.
- 6 Website.
- 7 To appoint or confirm the current year representative to the Awards Committee.
- 8 To discuss the CIAM Agenda (**PLEASE MAKE SURE YOU BRING YOUR CIAM AGENDA WITH YOU. IF YOU REQUIRE THE OFFICE TO PROVIDE A PRINTED COPY PLEASE CONTACT THE OFFICE NO LATER THAN THURSDAY 17<sup>TH</sup> MARCH**)
- 9 This year's Nationals updates from the Power Nationals Co-ordinator and Technical Committees to include:
  - a Discussion on locations and dates.
  - b Nationals results requirements.
- 10 To receive a proposal from the Records Officer that we create new UK record classes for Multi-Rotor models. (Appended)
- 11 To receive any reports from Technical Committees. (Preferably in writing and not concerning Agenda Items.)
- 12 To receive a report from the Competition Secretary to include:
  - a The receipt and ratification of any late contests for the FAI Calendar.

13 To receive any reports from Council, Sub-committees or Elected Officers. (Reports should be brief, preferably in writing & in advance and not concerning Agenda Items.)

14 Any Other Business.

*Please note: Items for Any Other Business should be handed, or sent, to the Office Manager in writing before the meeting commences.*

*Any questions to be asked under AOB that require detailed answers should be previously advised to the Office Manager to allow preparation of replies.*

15 Date of next meeting.

Linda Harding  
Office Manager

26<sup>th</sup> February 2016

**Authorised to attend:**

The Chairman of the Meeting – Technical Secretary

The Vice Chairman of the Meeting – Competition Secretary

FAI Delegate

Records Officer

All individual members of each Technical Committee

One representative of GBRCAA

One representative of GTBA

One representative of BMPRA

One representative of UKRA

One representative of AHA

One representation of BARCS

One representative of BWA

One representative of SpeedCom

One representative of VTRSIG

One representative of CFA

One representative of JMA

One representative of FAIR

One representative of IMAC

One representative of SAM 35

*Note: Those with voting rights are the Chairman and Vice Chairman of the meeting, the FAI Delegate, Records Officer, two members from each of the six Technical Committees and one member from each RCP Specialist Body.*

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**PROPOSAL FORM**

Please use **BLOCK LETTERS** for handwritten proposals.

Indicate the appropriate Council Agenda: **Technical Council**

**Proposals must reach the Chief Executive no later than the Monday, 26 days prior to the Council Meeting.**

Use a separate sheet for long proposals or reasons and attach to this form. Refer to the notes on page 2 regarding the conditions for submitting proposals.

**PROPOSAL:**

The proposal is that we create new UK record classes for Multi-Rotor models in the following classes

- 1) Duration
- 2) Distance in a straight line
- 3) Speed in a straight line
- 4) Distance in a closed circuit
- 5) Speed in a closed circuit
- 6) Distance goal and return

The FAI have been contacted for guidance on record classes they may be creating for the category and there are no plans for any classes until at least 2017. We have a proposed definition of a Multi-Rotor Models from the FAI and this has been incorporated into the model characteristics listed below. The proposed model definition also uses guidance from the helicopter definitions to allow gyro based stability systems essential for Multi-Rotor flight.

Any other form of stability control or automatic flight guidance will not be allowed.

Based on this I propose

- a) DEFINITION: Model to align with the FAI definition of 'A multi-rotor (or multi-copter) is a rotary wing aerodyne model aircraft with a power driven rotor system with more than two rotors the axes of which are fixed and substantially perpendicular to the longitudinal axis of the rotorcraft'
- b) AREA: The total swept area of the lifting rotors cannot exceed 250dm<sup>2</sup>.
- c) WEIGHT: The weight of the model aircraft (with batteries) must not exceed 6.5 kg.
- d) MOTOR: Electric motors are limited to a maximum no load voltage of 51 volts for the total propulsion circuit. There is no limit on the number of motors used.
- e) GYROS: The use of pre-programmed flight manoeuvres is forbidden. The use of automatic position (latitude and longitude) locking devices and altitude locking devices, whether with external references or not, are forbidden.
- f) ROTOR BLADES: All-metal blades are prohibited.
- g) OPERATION: The Multi-Rotor to be operated within ANO CAP 658
- h) FPV: No first person view allowed for the record attempt

**REASON:**

The BMFA has had a number of approaches from members wishing to set records using Multi-Rotor models operating under the guidelines of the BMFA. The record book and rules book need updating to reflect requests.

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**ELECTED OFFICERS/COUNCIL MEMBER**

Proposed by: Simon Vaitkevicius Post: Records Officer

Signature of Officer/Council Member:

Date: **21<sup>st</sup> February 2016**

*(Only sign if not submitted electronically)*

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**TECHNICAL COMMITTEES OR THE ACHIEVEMENT SCHEME REVIEW COMMITTEE (ASRC)**

Proposed by: Technical Committee / ASRC (delete as appropriate)

Date of Meeting: Voting Results: For: Against: Abstentions:

Date: Signature of Committee Secretary / ASRC Council Member:

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**AREA COMMITTEES**

Proposed by: Club: Signature of Club Delegate:

Seconded by: Club: Signature of Club Delegate:

*(Only sign if not submitted electronically)*

Date of Meeting: Voting Results: For: Against: Abstentions:

Date: Area: