

## **Academy of Model Aeronautics**

5161 East Memorial Drive, Muncie, Indiana 47302 (765) 287-1256 - Voice • Competitions Fax (765) 286-3303 <u>www.modelaircraft.org</u>

## **RULES CHANGE PROPOSAL FORM**

## **INSTRUCTIONS**

This document is designed for you to print out and write in your proposal. If you want to type your proposal, PLEASE go back to the website and select ON -LINE PROPOSAL FORM. Please complete this form, scan

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to you r compu ppropriate Contest E			. A copy will be forwarded to Regulations must be reference
PROPOSAL NO. REA 18-09		RECEIVED DATE 3/15/17	
(To be inserted by Headquarters)		(To be inserted by Headquarters)	
REVISE DATE (To be inserted by Headquarters)  PROPOSAL TYPE (Check One): Basic Urgent Safety/ Cross (Indicate Original Proposal Cross (Indicat		VERSION NUMBER (To be inserted by Headquarters)  y/Emergency Interpretation  Proposal Number)	
SELECT APPLICAL	BLE COMPETITION REGU	LATIONS	
General Section CL Speed CL Combat RC Pylon Racing CL Scale Brief summary of the	Outdoor Free Flight CL Racing CL Special Events RC Helicopter RC Combat he proposed change.	Indoor Free Flight  CL Navy Carrier  RC Aerobatics  RC Soaring  RC Special Events	CL General CL Aerobatics RC Scale Aerobatics RC Fixed-wing Scale
Modify the voltage li	imit identified in Section 4.1		
	·	ist paragraph numbers whe "exact wording required".	
In Section 4.1 modify	y the second sentence in the	first paragraph to read:	
	model aircraft are limited t ght while the competitor is i	to a maximum of 52 volts for n the ready box.	the propulsion circuit,

Version 01/01/2016

## Logic behind proposed change, including alleged shortcomings of the present rules. <u>State intent for future reference.</u>

The hobby has moved on from the 5S 5000 mah batteries we typically use. Many vendors no longer offer these batteries as the primary users of large batteries such as EDF and helicopters are now using 6S batteries. The narrowing choices indicate problems for the future.

There are advantages to using 6S batteries. A 12S 4500 mah battery system contains the same energy as a 10S 6000 mah battery but typically weighs less and costs less. It is possible to create a power system that contains more energy but my expectation is that it will be used to increase flight duration and not maximum power output. Most competitors are already cutting back on the maximum throttle on our current 10S batteries to achieve a smoother more even-paced flight.

Motor manufacturers such as Hacker already provide a variety of KV motors to accommodate preferences. Various manufacturers have indicated lower KV motors will soon be available if this proposal is accepted. Most ESCs already accept 12S battery systems.

I would expect that all contests in the USA except FAI team trials would accept 12S systems as defined in this proposal.

New event test data/information (new events only), please provide what testing of this new event has taken place to include number of participants and number of contests.

Testing has occurred but not in events

Effect, if any, on current AMA records.

None

Note: The Contest Board Chairman may, in coordination with the submitter of the proposal, at any time prior to submitting a proposal to the Contest Board for Final Vote, edit proposal wording to increase clarity and to avoid ambiguity provided the proposal intent is not changed.

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Signature

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