

Academy of Model Aeronautics

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SAFETY REGULATIONS FOR RADIO CONTROLLED PULSE JET ENGINES

*Approved by AMA Executive Council (EC),
on July 15, 2002,
at the Board of Directors meeting*

amended by the EC on January 11, 2015 (changes noted in bold)

It is the responsibility of the flyer(s) to comply with these regulations.

1. The engine may be a commercial or home-built engine.
 - A. **The maximum thrust allowable will be 25 pounds for single engine installation and 30 pounds for a multi-engine installation.**
 - B. Afterburners are not permitted, but augments tubes and/or other ducting devices not making use of combustion may be used.
2. **AMA retains the right to exclude any engine (individual or type), which is believed to exhibit a safety concern.**
3. **Consideration shall be given to protect the airframe and all equipment from the extreme heat of a pulse jet.** Any enclosed engine installation must be designed with attention to airflow path ducting, integration of related equipment, and fire containment on start-up.
4. At AMA sanctioned events specifically for RC jets, safety barriers will be required protecting the length of the inhabited area of the pilot line, flight line, pits, and spectator area.
5. RC pulse jet models shall not be flown during any period of darkness or obscured visibility.
6. The fuel tanks shall be of rigid construction with consideration given to burst and puncture resistance. **Bladder or flexible plastic bags may be used if they are enclosed within a rigid container or fully-isolated airframe compartment.** Consideration shall be given that **non-metallic** fuel lines may not be able to touch hot engine parts as installed. The fuel system shall have two fuel shutoff provisions, one of which shall be manual and the other shall be remotely operated.

7. **A “B/C”-rated or equivalent fire extinguisher shall be present for all engine starts. Water based firefighting equipment shall be present on the field. A phone shall be present at the site, along with the phone number of the closest fire department or 911, whichever has been determined to be most effective for emergency responses.**
8. **All radios must be equipped with fail safe and be configured to shut down the engine within 2 seconds of fail-safe activation.**

Note:

Pulse jets operate on high noise levels. Prior to operation, please check the flying location for allowable dB limits and/or local noise ordinances. Prior to start up, spectators should be warned of the high noise level.