

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*

It is the responsibility of the flyer(s) to comply and the Contest Director's responsibility to enforce these regulations.

1. The engine may be a commercial or home-built engine.
 - A. The total internal cross-sectional area of the tailpipe(s) at the point of minimum cross-section shall not be greater than 1.25 square inches.
 - B. Afterburners are not permitted, but augments tubes and/or other ducting devices not making use of combustion may be used.
2. Multi engine powered pulse jet installations must be designed with separate pods or partitions where exhaust gases cannot mix causing cross-ignition.
3. Any enclosed engine installation must be designed with attention to airflow path ducting, integration of related equipment and fire containment on start-up.
4. Controllable rudders are required on all RC aircraft.
5. 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.
6. Radio controlled pulse jet models shall not be flown during any period of darkness or obscured visibility.
7. Flexible plastic bags will not be allowed as fuel tanks in RC pulse jet powered model aircraft.

8. A minimum of two fire extinguishers must be present and manned for all operations, including crash recovery. For organized events, fire-fighting equipment must be on call.
9. The pilot must present to AMA the following credentials when attempting to fly RC pulse jets at any time:
 - A. Self-signed declaration that he has completed a minimum of fifty (50) flights with high speed aircraft designed to fly 150 MPH or faster.
 - B. Self-signed declaration of knowledge concerning the following:
 1. Control setup.
Radio setup.
Emergency shutdown control(s).
 2. Grounding handling.
Proper model positioning for take off.
Proper safety procedures on return to pit area.
 3. Pulse jet engine operation.

The AMA has the right to revoke an individual's AMA credentials if any safety regulations are not followed for RC pulse jets.