

Proposal for SAFETY REGULATIONS FOR RADIO CONTROLLED PULSE JET ENGINES

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

1. The engine may be a commercial or home built engine.
2. AMA retains the right to exclude any engine, (individual or type) which is believed to exhibit a safety concern.
3. Pulsejet static thrust (manufacturers rating) shall not exceed 25 lbs. Multi pulsejet installations static thrust shall not exceed 30lbs combined.
4. The fuel tanks shall be of rigid construction with consideration given to burst and puncture resistance. Plasma fuel bags are not allowed. Bladder type tanks will be allowed. 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.
5. All radios must be equipped with a failsafe and be configured to shut down the engine within 2 seconds of failsafe activation.
6. Multi Engine powered pulsejet installations must be designed with separate pods or partitions where exhaust gasses cannot mix causing cross ignition.
7. Any enclosed engine installation must be designed with attention to airflow ducting, integration of related equipment and fire containment on start-up.
8. Consideration shall be given to protect the airframe and all equipment from the extreme heat of a pulsejet.
- ~~8.9.~~ Controllable rudders on all aircraft with wheels.
- ~~9.10.~~ At AMA sanctioned events specifically for RC pulsejets, safety barriers will be required protecting the length of the inhabited area of the pilot flight line, pits, and spectator area.
- ~~10.11.~~ Aircraft shall not be flown during any period of darkness or obscured visibility.
- ~~11.12.~~ Flexible plastic bags will not be allowed as fuel tanks in pulsejet powered aircraft.

~~12~~.13. A minimum of ~~2~~-two fire extinguishers must be present and manned for all operations including crash recovery. ~~One of the extinguishers shall be water based to fight any grass fire.~~ For organized events, fire-fighting equipment must be on call.

- ~~13~~.14. The pilot must present to the AMA the following credentials before attempting to fly RC pulsejets.
- a. Self-signed declaration that he/she has completed a minimum of fifty (50) flights with a high-speed aircraft flying ~~150mph~~-100mph or faster.
 - b. Self-signed declaration of knowledge concerning the following:
 - i. Control setup.
 - ii. Radio setup.
 - iii. Emergency shutdown control(s).
 - iv. Ground handling.
 - v. Proper model positioning for takeoff.
 - vi. Proper procedures on return to pit area.
 - vii. Pulsejet operation.

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