

TRIPOLI ROCKETRY ASSOCIATION, INC. – TRIPOLI INDIANA #132

TO FLY AT THIS LAUNCH YOU MUST READ THE FOLLOWING, AND SIGN AT THE BOTTOM OF THE PAGE!

By signing this safety code and liability waiver, I hereby attest that I have read and understood the Tripoli Rocketry Association Safety Code, and the rules that will apply to this launch. I understand that the following risks exist, and that other unforeseen risks can and will sometimes occur. Some of the risks are bodily injury, death from impact to the participants' body, burns, etc. I also agree to report any violations of the Tripoli Rocketry Association's safety code or any unsafe condition to the launch officials. I hereby certify that I have the necessary experience and training to operate a high-power rocket at my current level of expertise. I also agree to indemnify and hold harmless the Tripoli Rocketry Association Inc., Tripoli Indiana, and land owners Lorrain Garrott, Millard Plumlee and Faye Fields for my participation and or actions at this rocket launch. This also includes any bodily injury that I might incur.

*The following is a **condensed** version of the NAR/TRA HIGH POWER SAFETY CODE. The complete code can be found in the handbooks of the organizations.*

1. Only a person who is a certified flyer shall operate or fly a high power rocket.
2. Must comply with United States Code 1348, "Airspace Control and Facilities", Federal Aviation Act of 1958 and other applicable federal, state, and local laws, rules, regulations, statutes, and ordinances.
3. A person shall fly a high power rocket only if it has been inspected and approved for flight by a Safety Monitor for compliance with the applicable provisions of this code.
- 4.2 Do not dismantle, reload, or alter a disposable or expendable high power rocket motor, not alter the components of a reloadable high power rocket motor or use the contents of a reloadable rocket motor reloading kit for a purpose other than that specified by the manufacture in the rocket motor or reloading kit instructions.
5. A high power rocket shall be constructed to withstand the operating stresses and retain structural integrity under conditions expected or known to be encountered in flight.
6. A high power rocket vehicle intended to be propelled by one or more high power solid propellant rocket motor(s) shall be constructed using lightweight materials such as paper, wood, plastic, fiberglass, or, when necessary, ductile metal so that the rocket conforms to the other requirements of this code.
7. A person intending to operate a high power rocket shall determine its stability before flight, providing documentation of the location of the center of pressure and center of gravity of the high power rocket to the Safety Monitor, if requested.
- 8.1 Ensure that the rocket weighs less than the rocket motor manufacturer's recommended maximum liftoff weight for the rocket motor(s) used for the flight. During pre-flight inspection, The Safety Monitor may request documentary proof of compliance.
- 8.2 Do not install a rocket motor or combination of rocket motors that will produce more than 40,960 Newton-seconds of total impulse (4.448 Newton's equals 1.0 pound).
- 9.1 Fly a high power rocket only if it contains a recovery system that will return all parts of it safely to the ground so that it may be flown again.
- 9.2 Install only flame resistant recovery wadding if wadding is required by the design of the rocket.
- 9.4 Do not attempt to retrieve a high power rocket from a place that is hazardous to people.
- 10.1 Do not install or incorporate in a high power rocket a payload that is intended to be flammable, explosive, or cause harm.
- 11.3 A launching device shall not be capable of launching a rocket at an angle more than 20 degrees from vertical.
- 12.1 Use an ignition system that is remotely controlled, electrically operated, and contains a launching switch that will return to "off" when released.
- 12.2 The ignition system shall contain a removable safety interlock device in series with the launch switch.
- 12.4 Install an ignition device in a high power rocket motor only at the launch site and at the last practical moment before the rocket is placed on the launcher.
- 13.1 Launch a high power rocket only in an outdoor area where tall trees, power lines, and buildings will not present a hazard to the safe flight operation of a high power rocket in the opinion of the Safety Monitor.
- 13.2 Do not locate a launcher closer to the edge of the flying field (launch site) than one-half the radius of the minimum launch site dimension stated in Table 1.

13.3 The flying field (launch site) shall be at least as large as the stated in Table 1.

TABLE 1

Installed Total Impulse (N-sec)	Equivalent Motor Type	Minimum Site Distance (ft.)	Minimum Safe Distance (ft.)	Min. Safe Dist. (ft.) (Complex)
160.01 - 320.00	H	1,500	50	100
320.01 - 640.00	I	2,500	100	200
640.01 - 1280.00	J	5,280	100	200
1280.01 - 2560.00	K	5,280	200	300
2560.01 - 5120.00	L	10,560	300	500
5120.01 - 10240.00	M	15,480	500	1,000
10240.01 - 20480.00	N	21,120	1,000	1,500

14.1 Locate the launcher more than 1,500 feet from any occupied building.

15.1 No person shall be closer to the launch of a high power rocket than the person actually launching the rocket and those authorized by the Safety Monitor.

16.1 Do not ignite and launch a high power rocket horizontally, at a target, or so the rocket's flight path goes into clouds or beyond the boundaries of the flying field (launch site).

16.2 Do not launch a high power rocket if the surface wind at the launcher is more than twenty (20) miles per hour.

16.3 Do not operate a high power rocket in a manner that is hazardous to aircraft.

17.1 Launch a high power rocket only with the immediate knowledge, permission, and attention of the Safety Monitor.

17.3 Precede the launch with a five (5) second countdown audible throughout the launching, spectator, and parking areas. This countdown shall be given by the person launching the rocket, the Safety Monitor, or other flying site operating personnel.

17.4 Do not approach a high power rocket that has misfired until the safety inter-lock has been removed or the battery has been disconnected from the ignition system, one minute has passed, and the Safety Monitor has given permission for only a single person to approach the misfired rocket to inspect it.

I, the undersigned, understand and will at all times conduct myself with the understanding that the above stated risks and safety procedures; (1) are not necessarily all of the risks, (2) that even by observing the above procedures there remain risks of injury or death from high power rocketry, (3) that the utmost in attention and prudence must be exercised at all times.

I, the undersigned: (1) Assume all of the risks, damages, injury, or even death, (2) Assume the obligation to exercise the utmost care in pursuit of my activities at this event, (3) Will make no claim against the landowner. The Tripoli Rocketry Association Inc. cannot be held responsible for the failure of other participants to abide by the safety code, rules, and regulations, etc.

PRINT NAME _____ TRA / NAR #: _____ LEVEL: _____

SIGNATURE _____ DATED _____

E-MAIL ADDRESS _____

Adult/parent name and signature is required for flyers under eighteen years of age. NOTE: You must be a minimum of eighteen (18) years of age, and CLASS B CERTIFIED to fly class B rocket motors at this launch.

ADULT/PARENT NAME _____

ADULT/PARENT SIGNATURE _____ DATED _____