



RANGE RULES & PROCEDURES For North Branch, MN Launch Site

Welcome to Tripoli Minnesota. If you like smoke, flame, and big rockets, you've come to the right place! Most of the rockets flown at our launches fall into the large or high power classes. However, smaller model rockets also make an appearance. To launch, you must either be a dues-paying member of the club, or you must pay a \$10 launch fee for the day. (Exception - kids may fly model rockets without paying dues or fees). You must be a current member of Tripoli or the NAR to fly rockets with an H impulse or above. Whether you are a seasoned raketeeer, a novice or just a spectator, we are thrilled that you are here. In order to provide a safe, educational and enjoyable event we all have to work together to follow a few simple rules.

LAUNCH RULES

- The Tripoli Safety code applies to this event. No smoking on the range or within 25 feet of motor prep areas. Consumption of alcohol is not allowed on the range.
- TRA/NAR membership and HPR certification will be verified. If you are launching an H impulse motor or higher, please have your ID card available. Your credentials will be checked appropriate to the motor impulse being used.
- There is a launch fee of \$10 for non-Tripoli Minnesota members. Tripoli Minnesota membership is \$40 per year and can be paid online, onsite or, at any of our winter meetings. Kids may fly model rockets for free.
- This launch site requires the use of degradable, cellulose wadding. Tissue paper or Toilet paper type wadding is not allowed. Cellulose wadding is available from the launch trailer free of charge.
- A flight card must be filled out for each flight. Please fill in all known information.
- The Range Safety Officer (RSO) should perform a safety check prior to each flight of any rocket. You may be required to brief your planned flight as part of this safety check.

IMPORTANT NEW RULES FOR HIGH ALTITUDE FLIGHTS

Due to the possibility of rockets landing on the power lines any flight that has a projected altitude of over 3,000ft must be pre approved by either the RSO, Prefect, or appointed official. The new requirements for high altitude flights are. All altimeters main deployment settings are to be set at the lowest safe altitude possible. Total length of rocket when deployed (all parachutes out and rockets shock cord fully extended) should not be more than three times the length of the rockets assembled height and no longer than 30ft. Launch angles will be adjusted to minimize any chance of contact with the power lines. Launch director will have final say as to if the rocket can fly or not.

CAUTION: High Voltage Transmission lines are located along the east field boundary. Recovery in these lines **MUST** be avoided. Prediction tools such as RockSim and SPLASH can be very useful in determining launch angles and ejection delays for optimum recovery. Please contact the club Prefect or RSO to discuss appropriate measures to be taken to avoid recovery in the power lines. If you are unsure about launch conditions, launch angle, or performance it is imperative you receive help so the proper adjustments can be made to assure you stay clear of the lines. If a rocket does happen to land on the line Xcel will recover it at the owner's expense including any damages (see attached letter).

Tripoli Minnesota High Power Rocketry Club

- Launch rod/rail selection is up to you. Please select a rod of sufficient length and diameter to properly guide your rocket during initial boost. If you bring a different rod or rail than the one already there out to a pad, PLEASE BRING ONE BACK. Please do not leave launch rods or rails lying on the ground at the pad.
- When installing your igniter(s) please bring back and discard any igniter found in the clips. This will help keep our launch site clean.
- Please track your rocket during its flight. You alone are responsible for recovery of your rocket. If in doubt, Rocket Hunter tracking transmitters are typically available to borrow for a given flight. Ask a club member, RSO or LCO for assistance.
- If your rocket lands in a crop field only one person at a time in the field will be allowed to locate the rocket. Please walk parallel to the rows and be careful to avoid damaging the crops during search and recovery operations.
- Clean up your materials and if you find trash on the field, please pick it up and throw it away. A waste bin is provided at the launch control desk.
- Rockets fascinate children. Please keep track of yours during this event. High power rockets are not toys and should be handled by adults or under close adult supervision. Children MUST be closely supervised while at club launches.

LAUNCH PROCEDURES

1. Prep your rocket. Withhold installing igniters until the rocket is upright on the launch pad.
2. Obtain and fill out an appropriate flight card. Cards are available at the launch control desk. The cards are color coded by motor impulse. Please have your card filled out prior to the safety inspection.
3. Have your rocket inspected by a Range Safety Officer (RSO) at the launch control desk. After the inspection, you will be assigned a launch pad. Remember all high altitude flights must be pre inspected before assembly or you may not be able to fly
4. Load your rocket on the pad when the range has been opened by the LCO. (See rules section pertaining to launch rod/rail use.)
5. Set your launch angle as required for safe flight and recovery. If you have questions or concerns, PLEASE ASK FOR HELP.
6. Install the igniter(s) and check continuity at the power relay box if a relay is being used at that pad. Cleaning of the igniter clips is recommended to ensure good electrical contact. Good continuity is key to successful ignition.
7. DO NOT FORGET TO ARM YOUR ELECTRONICS and verify operational status
8. Once the range is clear, the LCO will close the range.
9. A description of the rocket, motor, ejection and payload will be given via PA followed by a 5 count and LAUNCH.
10. Have fun and enjoy the launch

Remember if you have any questions concerning any of these rules please consult with the club Prefect, RSO, or launch director. We want your launch and recovery to be a safe, successful and enjoyable experience and we are here to help in any way we can. Thanks for your cooperation,

Dave Leininger
Prefect Tripoli MN

Tripoli Minnesota

High Power Rocketry Club