

ALRS Special Safety Regulations

At ALRS, the Tripoli Safety Code applies. The limited size of the ALRS site requires special safety precautions to be able to fly huge and complex HighPower rockets.

Please make sure to read these instructions carefully to avoid bad surprises on site !

1. Launch site organization

Pre-launch procedure at ALRS:

- Prepare your rocket, make sure the CP (center of pressure) location is marked on HighPower rockets and you do have a computer printout of the CP location at hand.
- Test your igniters using an appropriate Tester to avoid misfires. Your fellow racketeers will appreciate when they don't need to wait in long queues because of misfires. Always take a spare igniter with you.
- Don't install any igniter before the rocket is on the pad and the on-board electronics is armed.
- Fill out a flight card completely.
- Have the Range Safety Officer (RSO) check your rocket. The RSO's duty is to enforce safety, not to let everything pass! So please make sure you present him only safe designs or he will reject it!

The RSO specially checks for:

- stability (CP / CG location) and overall aerodynamic configuration
 - thrust / weight ratio
 - structural strength and integrity
 - sturdy recovery system (no elastic shock cords in big rockets)
- Once the RSO has signed your flight card, give the card to the Pad Manager and wait until you are assigned a pad.
- Install your rocket on the pad and install the igniter. The Pad Manager will assist you and he is responsible to aim the pad away from the crowd.
- The Launch Control Officer (LCO) will launch all rockets

2. Special ALRS Safety Regulations

2.1 Launch Pads

We provide rod launchers (3mm up to 10mm dia. rods) and BlackSky „Standard“ and „HighPower“ rails. For security reasons, rail launchers MUST be used for rockets

- with installed impulse > 800Ns
- complex HighPower rockets (clustered/staged)

BSR rail guides may be purchased on site (contact us if you need more information).

2.2 Protective wadding and other substances that may be expelled

The Safety Code demands that protective wadding be flame proof.

Unfortunately we occasionally are seeing glas- or stone fiber being used as protective wadding.

Common sense is demanding that all what is falling to the ground has to be bio-degradable and harmless to the environment and animals. Therefore any glas- of stone fiber products are NOT acceptable as protective wadding. Please use appropriate paper or cotton based products.

2.3 Max. Flight Altitude

Flights to 7'500ft AGL are allowed. Windows to 10'000ft may be open after approval by ATC. For security reasons, clustered and staged rockets are allowed to fly to 6'000ft AGL only. On some conditions exceptions may be granted. Please contact us as early as possible if you wish to fly higher.

2.3 Pre-flight inspection of HighPower rockets

To avoid any uncontrolled flights, you will need to supply a computer printout of the CP location when presenting a HighPower rocket to the RSO. The RSO will reject the rocket without this paper and we can not guarantee the availability of a computer on site!

You may use the free „VCP“ program to calculate the location of your rockets center of pressure. VCP may be found on the ARGOS WebPage.

If you intend to impress the crowd, prepare to impress the RSO first!

2.4 Level3 - Rockets, Composite Clusters & Stagers

Please contact our prefect and TAP member Jürg Thüring (Tel ..41 1 751 11 13, E-Mail j.thuering@spacetecrocketry.com) at least 30 days prior to the launch to discuss your project, if you intend to launch a rocket with an „M“-motor or equivalent impulse or a high-impulse complex rocket.

This applies to all launches in that motor class, not only for certification flights.

You will not be admitted to launch without having passed this check.