



Safety & Technical Committee
United Kingdom Rocketry Association
Level III Certification

Procedure for Dealing with the Planning, Design, Construction and Flight of Level III Rockets

Definition : Level III Certification

Level III certification : This shall involve the planning, design, construction and subsequent flight of a large rocket powered by a single motor of not less than 5,120 Ns total impulse (M class).

Procedure for Obtaining Your Level III Certification

The flyer is seeking to gain two signatures before the flight can commence. Both of these signatures will be from members of the Safety & Technical Committee (hence forward STC).

One signature shall be from the project advisor (see below) and the other will be obtained from a different member of the STC upon a full inspection of the completed and assembled vehicle (without motor), at any time prior to launch.

At the inception of the project, the flyer should approach a member of the STC to discuss the project's parameters. This person will then be the project advisor. He or she will then follow the project through to its completion offering any help, encouragement and advice as he or she sees fit.

An outline of the project should be sent to the project advisor. The project advisor can then feedback to the flyer with any problems that can be foreseen at the current time.

Two months prior to the intended launch, the flyer should then submit a detailed report to the project advisor. This report should contain the following points.

1. A completely filled out Pre-Flight Data Capture form. (see included sheets)
2. Drawings of the rocket showing airframe components, fins, bulkheads, associated internal structures, adhesive joints, recovery system components, payloads, etc.
3. A parts listing that includes material descriptions, adhesive types, screw sizes gauges, material thicknesses, etc.
4. A detailed motor assembly diagram, showing the structure and placement of all associated systems, retainers and locators.
5. Schematics of recovery system electronics that show batteries, circuit designs, wiring diagrams, etc.
6. Pre-flight checklist describing field assembly of the rocket, motor installation, recovery system preparation, launcher installation, system arming, etc.

The detailed report will also be forwarded to the Chair of the STC as a matter of courtesy.

It shall be the responsibility of the STC to examine this report for problems and complete a risk assessment on the project.