



SEDS 2017 University Student Rocketry Challenge Design Report Deliverables and Guidelines

The following document has been provided to give a deliverables guideline for the design report to be submitted by April 28th, 2017 as part of the 2017 University Student Rocketry Challenge. Please email your formal submission to Jonathan.Jennings@SEDS.org. Make sure that your email includes your team/project name and a short statement about your intent to submit documentation.

Design reports should address all of the following:

1. **Rocket design drawings.** Please include engineering drawings of the rocket components as well as the assembled rocket.
2. **Concept of operations.** Please describe the intended flight of the rocket, including separation and staging events. Include details on how these events will be triggered and how they will be accomplished.
3. **Launch simulations.** Please include simulations of the rocket's flight. Indicate the conditions under which the simulation was run, including but not limited to the number and type of motors. Comments on the results of the simulations should also be provided, including maximum altitude, staging altitudes, and recovery details.
4. **Assembly procedure.** Please submit a document that outlines the manufacturing and assembly plans for the vehicle.
5. **Recovery system schematics.** Please provide schematics for the onboard recovery systems, including but not limited to system schematics, wiring diagrams, vent hole location/size, and parachute size calculations. Provide which recovery/altimeter/electronic systems are being used including the competition altimeter.
6. **Launch Accommodations.** Please provide information about what type of launch platform and any launch accommodations that your team intends to use.
7. **Launch dates.** Please indicate the date that the rocket is anticipated to be ready for flight. Indicate the specific location of the launch site (Lat, Long), any required FAA waiver information, and three possible dates (One intended and two back up) that your team intends to use for launch. These dates must be before to October 13, 2017 (Launch window closes).

There is no paper length or format requirements but design reports should be professional and contain sufficient detail to describe the design of the rocket. Late submissions will be accepted and given a substantial score penalty based how late the document was formally submitted.

Feel free to contact the SEDS USRC project manager at Jonathan.Jennings@SEDS.org for any questions or if you require help of any kind. If you need help with design, safety, or procedures make sure that you email with your questions as early as possible.