

OLite Progress Report

February 26, 2010

Team Activities

Progress by Subsystem

- Mechanical – necessary structural modifications identified
- Power Subsystem – Regulation and distribution boards on order
- CDH Subsystem – Software interfaces written and verified for all subsystems, CDH board on order
- Comm Experiment – Brass board operation of the system has been demonstrated, and schematics completed, board layout started
- Power Experiment – Preparing to move experiment board to layout, solar panel board layout %50 complete
- GNC Experiment – Magnetometer demonstrated, board schematic complete

Design/Development Issues

Through simulation of the flight antenna, the HASP balloon itself will affect the radiation pattern. Is it possible to run a flexible cable back to the structure and down the length of it to hang an antenna below the gondola itself? Can we also get dimensions for the gondola itself?

We would like to request a waiver for extending the solar panel board on the positive z face of our payload beyond the size requirements. How do we go about getting a waiver?

Milestones

The OLite subsystems have passed their CDR this past month, although the experiments are behind on the acquisition of their circuit boards. We expect to have the Payload bus operational this month, and ready to test with the experiments as they become ready to integrate with the system.

Current Leaders

Project Management	Allen Kummer
Systems	Phil Weir
Mechanical	Corey Friedenberger
Power Subsystem	Matthew Anderson
Command and Data Handling Subsystem	
Hardware	Eric Root
Software	David Zhang
Guidance Navigation and Control Experiment	Alex Malone
Communications Experiment	
Radio	Steve Devore
Antenna	Scott Pfeiffer
Power Experiment	Matthew Anderson

*Full list of participating students available on request

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