Boston University / New Mexico Institute of Mining and Technology / Georgia Institute of Technology

January 27, 2012

Student Payload First Flight (SPIFF) Payload Team Monthly Status Report

1. Activities of SPIFF team members

Initial response and comments from the HASP program and reviewers are currently being addressed in a revised application to be submitted February 1, 2012. Major changes to the application include reduction of total payload footprint to a single small payload seat.

2. Issues encountered during payload design / development

Overall height of the payload may exceed the physical envelope provided by the HASP launch vehicle and a waiver may be requested. Another issue raised by reviewers is the need to provide a more appropriate thermal management plan that appropriate to the near-space environment where convection cannot be used to cool components. Two solutions to this problem have been suggested: a simple heat routing scheme using copper braid and a more complex method for constructing low-cost "heat pipe" cooling chambers.

3. Milestones achieved

- a. Initial proposal submitted and returned with approval pending revisions
- b. Weekly internal status report teleconferences between BU, NMT, GATech completed

4. Current team members and leaders

- a. BU: Nate Darling, Chris Hoffman, Nima Badizadegan, Pantelis Thomadis
- b. GaTech: Josh Mendez, John Trostel
- c. New Mexico Tech: Jordan Klepper, Matt Landavazzo