

September 12, 2016

To whom it may concern:

The purpose of this memo is to clarify and describe the laser ranging aspect of the ARMADILLO mission for the purposes of FCC licensing.

ARMADILLO is a 3U university CubeSat with approximate dimensions of 30 cm x 10 cm x 10 cm. The spacecraft has a planned launch date of approximately August 2017. The ARMADILLO mission has a tertiary science objective to be a passive target for laser ranging and contains one (1) passive corner cube retroreflector as shown in Figure 1. The corner cube retroreflector is a COTS part and is capable of reflecting 400 – 2200 nm laser pulses from ground stations for ranging. The corner cube's dimensions are less than 4 cm per side. The spacecraft itself contains no lasers and is only a passive target.

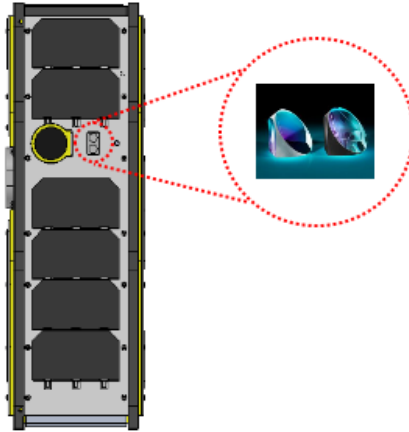


Figure 1: ARMADILLO 3U CubeSat with corner cube retroreflector shown circled in red.

The ARMADILLO spacecraft is solely a target of opportunity for the scientific community and as such, no official laser ranging observations have been scheduled. The ARMADILLO operations personnel will provide due diligence to ensure that all organizations interested in conducting laser ranging on the spacecraft comply with all Laser Clearing House approval processes.

Please contact me if you have any questions regarding this matter or require any additional information to grant an FCC license for ARMADILLO to operate.

Sincerely,



E. Glenn Lightsey, Professor  
Daniel Guggenheim School of Aerospace Engineering  
Georgia Institute of Technology  
glenn.lightsey@gatech.edu, 404.385.4146