

From: Sydney White

To: Leann Nguyen

Date: July 08, 2014

Subject: FCC File# 0531-EX-ST-2014

---

Message:

- 1) We have requested an IARU coordination letter and will forward it as soon as it is available.
- 2) We are working on the SpaceCap file and will email it to Leann.Nguyen@fcc.gov.
- 3) We are checking on the remote sensing question.
- 4) We will provide a cost recovery fee letter.
- 5) The cubesat will have an orbital inclination angle of 51.65 degrees, with an apogee of 420 km and perigee of 420 km, and an orbital period of 92.89 minutes.
- 6) The cubesat transmitter antenna will have a maximum gain of 2 dBi. The beamwidth will be 360 degrees and +/- 90 degrees and the azimuthal range will be 180 degrees.

The two Yagi ground station antennas will have a gain of 16.3 dBi. The beamwidth will be 44 Degrees in both the horizontal and vertical directions. Each ground station antenna will be mounted on an antenna rotator for pointing the antenna at the satellite; the antenna rotator will have an azimuthal range of 360 degrees. Each ground antenna will have a minimum angle of elevation of 20 degrees. The overall length of the ground antennas will be 3.7 meters.

The Yagi antenna located at the Booz Allen Hamilton facility in Linthicum, Maryland will have an overall height above ground to the tip of the antenna of 5 meters. The elevation of ground at antenna site above mean sea level will be 81 meters.

The antenna located at the Booz Allen Hamilton facility in Rochester, Minnesota will have an overall height above ground to the tip of the antenna of 5 meters. The elevation of ground at the antenna site above mean sea level will be 331 meters.

- 7) The Stop Buzzer contact is John Swartz 919-595-4825 (office) and 919-270-5074 (mobile).