

From: Benjamin Malphrus

To: Behnam Ghaffari

Date: August 24, 2016

Subject: FCC File No. 1227-EX-ST-2016

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Message:

Hello. This is a response to correspondence dated 8/22/16, requesting the following:

1. NOAA approval letter for the imaging operations (if any imaging operation),
  2. Orbital Debris Assessment (ODAR),
  3. SpaceCap (You will need to email the file directly to me (Behnam.ghaffari@fcc.gov) since ELS can only handle pdf's. You will need to change the .mdb extension to .txt so it is not blocked by our email filter. We then change it back.),
  4. Cost recovery letter
5. Provide the information notes below for the purposed Cubesat. Submit your response as .pdf to your application :
- a) THE TYPE OF SATELLITE, GEOSTATIONARY OR NONGEOSTATIONARY
  - B.) IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM,
  - b) THE SATELLITE TRANSMITTER ANTENNA GAIN AND BEAMWIDTH,
  - c) THE SATELLITE TRANSMITTER ANTENNA AZIMUT: NARROWBEAM (NB), EARTH COVERAGE (EC),
  - d) THE EARTH STATION RECEIVER ANTENNA GAIN, BEAMWIDTH, AZIMUTHAL RANGE, THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS AND THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS,
  - e) THE EARTH STATION RECEIVER ANTENNA AZIMUTH, THE MINIMUM ANGLE OF ELEVATION (V00 TO V90),
  - f) THE TRANSMITTER ANTENNA ORIENTATION (XAP), EXAMPLE XAP01 J , AND THE RECEIVER ANTENNA ORIENTATION (RAP), EXAMPLE RAP01 J , WHERE J REPRESENTS LINEAR POLARIZATION. OTHER POLARIZATIONS INCLUDE H FOR HORIZONTAL, V FOR VERTICAL, S FOR HORIZONTAL AND VERTICAL, L FOR LEFT HAND CIRCULAR, R FOR RIGHT HAND CIRCULAR, T FOR RIGHT AND LEFT HAND CIRCULAR, E FOR ELLIPTICAL AND O FOR OBLIQUE ANGLED CROSSED.,

I have now uploaded as additional attachments to this filing responses for items 1, 4 and 5. Item 2 is already an exhibit to this filing. Item 3 has been emailed to Behnam.ghaffari@fcc.gov.