

From: Rebecca Yoder

To: Doug Young

Date: August 10, 2015

Subject: Request for Info - File #0426-EX-PL-2015

Message:

ANSWERS FROM SURREY SATELLITE TECHNOLOGY BELOW QUESTIONS.

Applicant:

Surrey Satellite Technology US LLC

File Number:

0426-EX-PL-2015

Correspondence Reference Number:

29031

Date of Original Email:

08/04/2015

Our Spectrum Coordination Branch is requesting additional information. Please review the information below and submit an exhibit that contains the data. Reference to the specific data descriptions can be found in the NTIA Manual at <http://1.usa.gov/1y9s0P6> under Chapter 9.

Please resubmit these records containing the following information:

1.) The type of satellite, geostationary or nongeostationary, (XAL and/or RAL).

XAL NONGEOSTATIONARY

A.) If any satellites are geostationary, report its latitude as 000000N (XLA and/or RLA) and report its longitude (XLG and/or RLG).

N/A

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, then T01, example, REM04 *ORB,98.0IN00510AP00510PE001.58H01NRT01, and for space-to-space communications with another nongeostationary satellite add an additional *ORB for it ending in R01, example, REM05 *ORB,72.9IN03209AP00655PE013.46H01NRR01.

REM01*ORB,24.0IN00720AP00720PE001.65H01NRT01

2.) The satellite transmitter antenna gain and beamwidth (XAD), example, XAD01 16G030B.

Low Rate S-Band XAD01 00G360B

High Rate S-Band XAD02 03G120B

3.) The satellite transmitter antenna azimuth (XAZ), narrowbeam, NB, earth coverage, EC, example, XAZ01 EC or leave blank for space-to-space operations.

Low Rate S-Band XAZ01 EC

High Rate S-Band XAZ02 EC

4.) 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 (RAD), example assuming nongeostationary, RAD01 16G030B000-360A00357H006.

RAD01 32G003B001-360A00005H11

5.) The earth station receiver antenna azimuth (RAZ), the minimum angle of Elevation, V00 to V90, example, RAZ01 V00.

RAZ01 V05

6.) The S note (S945 - This assignment supports a Cubesat or Nanosat satellite whose name is recorded in circuit remarks field, e.g., *AGN,Cubesat, Alice or *AGN,Nanosat, Falcon.).

S945

REM01*AGN,Nanosat,OTB-1

7.) 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.

XAP01R

RAP01T

Transmitter parameters are needed for the space station and receiver parameters are needed for any earth stations. The parameters needed are in Section 9.8.2 and include XAL, XLA, XLG, XAP, XAZ, XAD, *ORB, RAL, RLA, RLG, RAP, RAZ and RAD.

The items indicated above must be submitted before processing can continue on the above referenced application. Failure to provide the requested information within 30 days of 08/04/2015 may result in application dismissal pursuant to Section 5.67 and forfeiture of the filing fee pursuant to Section 1.1108.