

From: Jeff Dailey

To: Leann Nguyen

Date: April 03, 2014

Subject: FCC Experimental Licensing System

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Message:

Please submit the following information:

- Is the satellite geostationary or non-geostationary?

1) NON-Geostationary

. If satellite is geostationary, please submit its latitude and longitude.

- If satellite is nongeostationary, please submit inclination angle, apogee (km)/perigee (km), orbit period(hours), fractions of hours in decimal and number of satellites in the system.

2) Inclination angle: 51.6 Degree

3) Apogee: 400km

4) Perigee: 400km

5) Orbital Period: 1.54 Hrs.

- Description of the satellite and how it will operate.

6) The primary mission of GEARR is to demonstrate 1)a global cubesat link, 2)Build on the work that was on TSAT communications system with Globalstars satellite network.

The primary function of the GlobalStar STX2 Transmitter is to transmit data at rate of once per minute allowing us to have global coverage this unit will be the primary transmitter of data. The duplex module GSP-1720-254 will be used for receiving commands.

- An analysis transmitting between satellites to satellite.

7) We are working with GlobalStar on the modeling of the signal levels and number of satellites in view per orbit, as of today it looks like a minimum of two in view per orbit.

- An analysis transmitting between satellites to ground stations

8) We are not transmitting from satellite to ground.

- The orbital debris mitigation plan or replan, uplink/downlink and beacon frequencies.

9) We are working with AFRL on the ODR for our Satellite and will get the info you ASAP.

10) We are working on the SPACECAP and will provide it to you ASAP.

- Information of satellite transmitter antenna including gain, beamwidth, azimuthal range.

10) The antenna information was submitted with the applicant if more is needed let us know.

- Information of earth station receiver antenna including gain, beamwidth, azimuthal range, elevation above mean sea level (m), minimum angle of elevation and antenna height above terrain (m).

11) There are no earth stations used as we are transmitting to the GlobaStar satellite network.

- Stop Buzzer information including name and telephone number of person who will terminate the system if having interference occurs.

12) Jeff Dailey Near Space Launch 8702 E. 825 S. Upland IN. 46989 jfdailey@nearspacelaunch.com

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If you need more info let me know.

Thank you

Jeff Dailey

NearSpaceLaunch Inc.