

To: Wengang Zheng
E-Mail: wengang.zheng@lasp.colorado.edu
From: Nimesh Sangani
Date: June 25, 2020

Subject: Additional Information Request

Message:

Address the following questions and concerns:

- 1) The applicant is requesting a 47 CFR Part 97 -AMATEUR RADIO SERVICE license for uplink at 437.325MHz band. The Part 97 Amateur license request needs to be submitted separately.
- 2) In the ODAR, The collision with large objects analysis (NASA requirement 4.5-1 from NASA-STD 8719.14b) is missing from the analysis. Please provide this information.
- 3) Provide a table containing the following information for all spacecraft components:
Component Name; Quantity; Material; Body Type; Mass (kg); Demise Altitude (km); Total DCA (m2); Kinetic Energy (J)
- 4) Provide the DAS logs for requirement 4.7-1 showing the components of the spacecraft and the demise altitude/debris casualty area/impact kinetic energy.
- 5) In the Spacecap:
 - a) No "station classes" or "nature of services" have been selected for any of the three up/downlinks. Please provide.
 - b) Correct the Fatal errors in the spacecap file(see attached report)
 - c) Verify/correct UHF minimum power densities our calculations show approximately 36 Db drop, not 42 or provide analysis/justification
S-Band downlink emission is a drop of 60 dB, our calculations show ~63 dB
 - d) Boulder, CO earth station latitude is listed as 40°31'6" instead of 40°00'31" in the UHF uplink.
 - e) Fairbanks, AK is not listed in the spacecap. Please provide.
 - f) Orbit period in the IARU letter and spacecap do not match. Clarify.

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 June 25, 2020 may result in application dismissal pursuant to Section 5.67 and forfeiture of the filing fee pursuant to Section 1.1108.

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Responses to this correspondence must contain the Reference number : 55947