

To: Michael Miller
E-Mail: mlmiller@sterksolutions.com
From: Doug Young
Date: June 28, 2017

Subject: Request for Info - STA File #0514-EX-ST-2017

Message:

The FCC's International Bureau/Satellite Division requests that you address the following issues:

1) On the Cost Recovery letter, the letter is signed by an associated professor Mr. Anders M. Jorgensen and it is not signed by a school official. We need a school official that is duly authorized by New Mexico Institute of Mining and Technology to sign this cost recovery commitment on behalf of the school. We also note that Mr. Jorgensen provided a gmail email which is not the school email address.

2) For operation in the 148.8 MHz band, we request the applicant to coordinate and obtain a written agreement from ORBCOMM.

ORBCOMM contact:

Name: Walter Sonnenfeldt
Company: ORBCOMM Inc.
E-Mail: sonnenfeldt.walter@orbcomm.com

ODAR:

3) The ODAR document, Appendix G, related to the survivable components, the last column "Survivability" reference Table 4-6 but this table does not appear in the document. Please provide the information in this table 4-6.

4) Per RR footnote 5.279A, the 432-438 MHz band is allocated to EESS (active) on a secondary basis; however, this mission is not in accordance with the EESS (active) allocation rather it is being used as an uplink satellite. Applicant will need to provide an EMC analysis to show that operations in the 431-432 MHz will not cause harmful interference to incumbent operations in this band.

STA Form:

5) For the uplink frequency 431.8 MHz the ERP value is 97 W; however, our ERP calculation value is 299 Watts ($10 \text{ dBW} + 16.9 \text{ dBi} = 26.9 - 2.15 \text{ dBi} = 24.75$; divide by 10 = 2.475 and raise to the 10^x gives approx. = 299 W. Please review our calculation and make any changes as appropriate.

SpaceCap API file:

6) In beam name NMTUP, Group ID 2, the max power level value is shown as 22 dBW; however, this value should be 10 dBW (10 Watt per Form 442). Please check both the max and min peak power value and make changes as appropriate.

7) If the power level changes then please check all the power spectral density calculation in this beam and update the power spectral density values as appropriate. Please use the equation power spectral density equation = Power (dBW) - $10 \cdot \log_{10}(\text{bandwidth in Hertz})$.

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 28, 2017 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 : 37732