

To: Blaze Sanders
E-Mail: blaze@spacevr.co
From: Doug Young
Date: August 30, 2016

Subject: Request for Info - STA File #0521-EX-ST-2016

Message:

The following issues need to be addressed:

Concerning the uplink earth stations, we need to know the location(s) of all the earth stations being used for this mission and if the earth stations are located in the US&P, we want to know who has issue the licenses for this/these earth station(s) (NTIA or FCC) and provide the license call sign and/or authorization number.

- On the SpaceCap API filing, Uplink, Box B3a1 "Max co-polar gain" the gain is listed as 20 dBi; however, we only found one antenna pattern submitted in this application for the spacecraft with an antenna gain of 16 dBi. Does the spacecraft have another antenna? If yes, please submit the antenna characteristics and antenna pattern. If no, then we would suggest to list the spacecraft antenna gain in Box b3a1.

- On the SpaceCap file, Uplink, Group Id 4:

On the next issue, we might have missed this one but we will need clarification. Box C8a1/C8b1 "Max peak pwr" is listed as 99.9 dBW which equals to 10 billion watts.

We will assume this is not correct. Note that the SpaceCap file uses dBW not Watts. Please validate the uplink max and min power and update the API file as appropriate.

Also, if the power value changes so will the power spectral density in Box C8a2/C8b2 and Box C8c3. To calculate the power spectral density value, use the following equation: Power Spectral Density = Power (dBW) - 10*Log10 (Emission bandwidth in Hertz).

Associated earth station, Box C10c2, "Country", is blank. Please identify which country(ies) the earth station will be operating.

- On the SpaceCap file, Downlink, Group Id 5:

Check the power spectral density values in Box C8a2/C8b2 and Box C8c3. To calculate the power spectral density value, use the following equation:

Power Spectral Density = Power (dBW) - 10*Log10 (Emission bandwidth in Hertz).

Associated earth station, Box C10c2, "Country", is blank. Please identify which country(ies) the earth station will be operating.

- On the SpaceCap file, Downlink, Group Id 6:

Check the power spectral density values in Box C8a2/C8b2 and Box C8c3. To calculate the power spectral density value, use the following equation:

Power Spectral Density = Power (dBW) - 10*Log10 (Emission bandwidth in Hertz).

Associated earth station, Box C10c2, "Country", is blank. Please identify which country(ies) the earth station will be operating.

- Applicant we just want to remind you that we will need the NOAA letter before granting any license.

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 August 30, 2016 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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