

To: Gil Estrella
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From: Doug Young
Date: October 27, 2016

Subject: Request for Info - File #0541-EX-PL-2016

Message:

Address the following concerns from the FCC's Satellite Division (SD): SD has reviewed the subject request and our analysis have found 18 license receiving earth stations operating within 16 km from the propose experimental locations #1 and #2. The license receiving earth stations operate in the adjacent band 3700-4200 MHz.

Our calculations indicate a potential for out-of-band emission interference to the 18 license FSS receiving earth station from the transportable fixed station that are in line of sight (transmitter altitudes of 54 feet); we will need more detail information to finalize our analysis.

1) Based on the exhibit document provided, it is not clear if the fixed stations antenna altitude will be 54 feet high but we based our analysis for the worst-case scenario.

2a) Based on the exhibit document, it is not clear how many fixed transmitters will be operating simultaneously in location 1 and location 2. The exhibit describes one Central Node and six Remote Nodes. The Central Node has four transceivers which communicate with the up to six transceivers installed in each Remote Node respectively.

Please let us know how many transmitter will be operating (simultaneously and individually) for each location #1 and location #2)

3a) Will each fixed station transmit 360 degrees horizontally?

3b) Is the fixed station capable to transmit only in a 90 degree sector?

4) Will each fixed station antenna be tilted toward the ground? If yes, what is the tilt angle?

5) Please provide a spectrum plot of transmit antenna output for each emission (5 MHz, 10 MHz, 20 MHz, 40 MHz).

6) What is the power level at 3699 MHz, 3700 MHz and 3701 MHz?

7) Is filtering used? If yes, what is the filter edge roll-off attenuation in dB per decade?

8) Is any interference mitigation technique used? If yes, please provide a detail technical description how it works.

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 October 27, 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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Responses to this correspondence must contain the Reference number : 34493