

To: Richard Hibbeler
E-Mail: rhibbele@comsearch.com
From: Anthony Serafini
Date: October 25, 2016

Subject: Additional information

Message:

Our International Bureau is asking for additional information. Please respond to the following:

IB/SD has reviewed the subject request and has identified 6 FSS earth stations licenses that operate adjacent band 3700-4200 MHz to the experimental stations within 27km. 2 FSS license E/S within 7 km which has a high potential of interference from the mobile station that will operate within 5 km from the center around coordinate provided.

Our calculations indicate a potential for out-of-band emission interferences to the 6 FSS earth station from the fixed and mobile station; we will need more detail information to finalize our calculations.

1) For the fixed and mobile station(s) please provide an antenna pattern with H and V planes.

The antenna pattern should provide the following:

- 1a)- max gain (dBi) and beamwidth (degs)
- 1b) - first major sidelobe gain and the angle of this sidelobe gain.
- 1c) - second major sidelobe gain and the angle of this sidelobe gain.
- 1d) - third major sidelobe gain and the angle of this sidelobe gain.

2a) How many antennas will the fixed station transmit at the same time in the same location?

2b) How many mobile stations will be operating within the 5 km radius?

3) For the fixed station antenna(s) provide the pointing direction in azimuth (deg) and elevation (deg). If more than one antenna, please provide the exact direction of each antenna it is pointing.

4) Will the fixed station antenna(s) 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 (11.5 MHz, 23 MHz).

6) What is the power level at 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 25, 2016 may result in application dismissal pursuant to Section 5.67 and forfeiture of the filing fee pursuant to Section 1.1108.

DO NOT Reply to this email by using the 'Reply' button. In order for your response to be processed expeditiously, you must upload your response via the Internet at <https://apps.fcc.gov/oetcf/els/index.cfm> by clicking on the "Reply to Correspondence" hyperlink.

Responses to this correspondence must contain the Reference number : 34440