

From: Mike Miller

To: Nimesh Sangani

Date: May 04, 2020

Subject: Additional Information Request

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Message:

1. Please ask the applicant to provide the Earth station and space station antenna beam diagrams.

A: the space antenna beam diagram has been uploaded as an exhibit.

We have no similar beam diagram for the ground stations. In Spacecap, the ground station pattern is provided as a reference pattern number, referring to patterns listed in the Spacecap form. This has been the practice previously for applications with TAC ground stations, and we have not received a ground station beam diagram from TAC.

2. Correct or verify the Apogee/Perigee; form 442, apogee/perigee - 400km; spacecap, apogee - 410km, perigee - 408km; ODAR, apogee - 427km, perigee - 412km.

A: The application and spacecap have been corrected to the most current estimate of the orbit, which is apogee - 427km, perigee - 412km, as shown in the ODAR.

3. Space station eirp not provided

A: The space station EIRP is 1.3W.

4. The emission 1M05F1D only appears in this filing, the ground station filing and this spacecap contain 1M23G1D and 1M09F1D. Correct or verify emission designators.

A: The application has been corrected to show 1M23G1D and 1M09F1D, the correct emission designators.

5. Identify all specific Earth stations to be used in the spacecap.

A: Spacecap has been edited and forwarded, to show all specific Earth stations identified in the TAC companion license application (0891-EX-CN-2019) as well as the campus ground station in Puerto Rico (0155-EX-CN-2020).

6. Provide an interference analysis according to the attached guide

A: An EMC analysis consistent with the guide provided, has been developed. It has been uploaded as an exhibit to the application.