

1.

*"The elevation and azimuth information listed in the Frequency Coordination section don't match up with our calculations. For the listed satellite arc from 8 deg W to 138 deg W, you listed earth station's antenna's elevation in the eastern and western limit as 5 degrees, but we came up with 8.3 degrees. You listed the antenna's azimuth in the eastern limit as 105 deg and western limit as 255 deg, our calculations shows 108.8 for eastern limit and 254.8 for western limit. Please resolve the angles differences."*

We used a slide ruler to determine approximate views. They must use a computer model. I would defer to their model for a more accurate look angle. Therefore enter elevation angle in the eastern and western limits as 8.3 degrees.

The same holds true for the azimuth limits, change to 108.8 for the eastern limit and 254.8 for the western limit.

2.

*"In addition, your proposed eirp density 58.5 dBW/4kHz for the 500MF1D emission needs to be recalculated as our calculations show it to be 25.5 dBW/4kHz for the Ku-band frequency (76.5 dBW- 10 log (500,000,000/4000)) and pursuant to 47CFR §25.212(c )(2) the application includes certification pursuant to 25.132(a)(1) of conformance with the antenna gain performance requirements in section 25.209(a) and (b). You should request the downlink emission's eirp/eirp density be blank."*

Their calculation includes spreading due to the hopping over 500MHz. The original submission did not include this. Use 25.5 dBW/4KHz in this field. Also where the fields show receive mode ie E45 leave E48 and E49 blank for 'R' mode.

3.

*"For the 1G00F1D emission carrier in the Ka-band frequency, your proposed eirp spectral density of 64.9 dBW/4kHz needs to be expressed in dBW/1MHz pursuant to 47 CFR§25.212(e ), our calculations show it to be 52.9 dBW/1MHz and that the application includes certification pursuant to 25.132(a)(1) of conformance with the antenna gain performance requirements in section 25.209(a) and (b). You should request the downlink emission's eirp/eirp density be blank."*

Their calculation includes spreading due to the hopping over 1GHz. The original submission did not include this and per the form used 4 KHz not 1 MHz density as now suggested. Use 52.9 dBW/1MHz in this field.

Also where the fields show receive mode ie E45 leave E48 and E49 blank for 'R' mode.