From: Ken Oyadomari

To: Behnam Ghaffari
Date: February 16, 2018

Subject: FCC File No. 0066-EX-CN-2018

Message:

Behnam,

With respect to first item on my previous email, we are going to process those frequency bands entered on the application (Form 442). Please disregard this item.

Understood

As for second item, if these 2 bands are being used only to receive then there is no need to put them on the application. Our licenses are being authorized only for transmission. However, I noticed for 9400-9900 MHz band, you have entered 8222.4 kW and 0 ERP. Please clarify this.

The 9400-9900 MHz band with the 0 ERP is also a receive frequency. I will update our application to reflect this.

Now, is there ground station(s) associated with your operation? If yes, you would need to go back to your application and open new location(s) and enter the required parameters for the intended location(s) (i.e. coordinates, freq bands, ERP, emission designator(s)).

Yes, there are ground stations associated with this application. It seems like the FCC 442 application fields do not fit what would be required for satellite licensing. I will submit an exhibit detailing our ground station location and antenna performance

Provide the following information with respect to the satellite(s):

1. Satellite coverage (Narrow Beam(NB) or Earth Coverage(EC))
Narrow Beam

2. Receiver antenna gain
Gain: 4.2dBi

3. Beamwidth of the receiver antenna at the half power points
Beamwidth 3dB: 102degs

6. The number of satellites in the system
Satellites covered in conventional experimental license: 2

4. Apogee and Perigee in kilometers
5. Orbital period in hours
7. Inclination angle
Two launches:
- SSO-A: SSO 10:30 575km
- PSLV 9: SSO 10:00 630km

Please provide the following information with respect the transceiver ground-station antenna(s):
1. Transmitter antenna gain (dbi)

EIRP: 44.8 dBW
Gain: 35.7dBi

2. Beamwidth of transmitter antenna at the half-power points
~ 2.8 degs

3. Transmitter antenna azimuth
4. Elevation of transmitter antenna MSL (in meters)
5. Elevation of transmitter antenna AGL (in meters)
The ground station antenna is on a pedestal and does not have a set azimuth or elevation. These parameters change as the ground station antenna tracks the satellite.