

From: GEORGE WHEELER

To: Behnam Ghaffari

Date: May 28, 2013

Subject: FCC File No. 0356-EX-PL-2013

Message:

Please provide the following information with respect to the satellite(s):

1. Satellite coverage (narrow beam antenna or earth coverage antenna)
= narrow
2. Receive antenna gain = +41.8dBi
3. Beamwidth of receive antenna (0-360 degrees) = 1.5deg

Please provide the following information with respect the earth station antenna:

1. Transmit antenna elevation (0-90 degrees)
= Dish = 8.2deg; Offset is 26deg; look angle to Sat = 34.2deg
2. Transmit antenna gain = +43.3dBi
3. Beamwidth of transmit antenna (0-360 degrees) = 1.2deg
4. Elevation of transmit antenna MSL (in meters) = 89 meters
5. Height of transmit antenna AGL (in meters) = 8.3 meters