

Directional Antenna Information:

The antenna is an 18 inch (46 cm) parabolic reflector with a center feed/sub-reflector assembly.

The 3 dB beam width of the antenna is 1.7 degrees. Please see the attachment entitled "prior STA Application" for complete antenna E and H plane patterns.

Initial transmit polarization will be VERTICAL, but a change to HORIZONTAL may be required depending on space segment availability.

The antenna is non-compliant with the antenna patterns of FCC 25.209. The proposed system will exceed normal power spectral density limits by several dB, but this is an experimental system, adjacent operators have provided affidavits stating their support of the testing, and the testing is to be of a limited duration (1-4 months). Future systems are anticipated to utilize spread spectrum such that power spectral density will not impact adjacent satellite operators.

Intelsat will launch a satellite shortly which could be impacted by our transmissions. This satellite is not expected to be operational within the period of this trial. Regardless, we will proceed with coordination for this satellite operator.