File number: 0365-EX-CN-2020

Correspondence Reference Number: 55070

Applicant: University of Kansas

Question 6 – Orbital parameters, satellite and earth station antenna specifications

a)

i. Type of Satellite: Non-geostationary
ii. Inclination Angle: Between 85° and 98°
iii. Apogee: 400 kilometers
iv. Perigee: 400 kilometers
v. Orbital Period: 1.55 hours
vi. Number of Satellites in System: 1

b)

i. Satellite Transmitter Antenna Gain: 1.51 dBi (when mounted on 3U satellite)
ii. Satellite Transmitter Beamwidth: Radiation patterns are attached

c)

i. Satellite Transmitter Antenna Azimuth: Narrow Beam (NB)

d)

i. Earth Station Receiver Antenna Gain: 13.3 dBi
ii. Earth Station Receiver Beamwidth: 42°
iii. Earth Station Receiver Azimuthal Range: 0° to 360°
iv. Earth Station Receiver Site Elevation Above Mean Sea Level: 284.09 meters
v. Earth Station Receiver Antenna Height Above Terrain: 20.09 meters

e)

i. Earth Station Receiver Antenna Azimuth: 0° to 360°
ii. Earth Station Minimum Angle of Elevation: V10