

Information Notes

Applicant: University of Illinois at Urbana-Champaign

File Number: 0117-EX-CN-2017

In response to Correspondence Reference Number: 36030

**THE TYPE OF SATELLITE, GEOSTATIONARY OR NONGEOSTATIONARY**

Nongeostationary

**IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS INCLINATION ANGLE, APOGEE IN KILOMETERS, PERIGEE IN KILOMETERS, ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL, THE NUMBER OF SATELLITES IN THE SYSTEM**

Inclination: 85

Apogee: 500 km

Perigee: 500 km

Orbital Period: 1.577 hours

Number of satellites: 1

**THE SATELLITE TRANSMITTER ANTENNA GAIN AND BEAMWIDTH**

Gain: 2.97 dBi

Beamwidth: 160 degrees

**THE SATELLITE TRANSMITTER ANTENNA AZIMUT: NARROWBEAM (NB), EARTH COVERAGE (EC)**

EC

**THE EARTH STATION RECEIVER ANTENNA GAIN, BEAMWIDTH, AZIMUTHAL RANGE, THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS AND THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS**

Gain: 18.9 dBi

Beamwidth: 20.5 degrees

Azimuthal range: 0 to 360 degrees

Site elevation: 222 m

Antenna Height: 10 m

**THE EARTH STATION RECEIVER ANTENNA AZIMUTH, THE MINIMUM ANGLE OF ELEVATION (V00 TO V90)**

Antenna Azimuth: 0 to 360 degrees

Minimum angle of elevation: 10 degrees

**THE TRANSMITTER ANTENNA ORIENTATION (XAP), EXAMPLE XAP01 J , AND THE RECEIVER ANTENNA ORIENTATION (RAP), EXAMPLE RAP01 J , WHERE J REPRESENTS LINEAR POLARIZATION. OTHER POLARIZATIONS INCLUDE H FOR HORIZONTAL, V FOR VERTICAL, S FOR HORIZONTAL AND VERTICAL, L FOR LEFT HAND CIRCULAR, R FOR RIGHT HAND CIRCULAR, T FOR RIGHT AND LEFT HAND CIRCULAR, E FOR ELLIPTICAL AND O FOR OBLIQUE ANGLED CROSSED.**

XAP01 R, RAP01 R