

**Technical Data for Special Temporary Authority Request**

Location (City, State, Coordinates)	Omaha, NE Latitude: 41° 15' 51.5" N Longitude: 96° 3' 32.8" W
Site Elevation	354.1 meters
Antenna Diameter	13.2m
Height Above the Ground	15m
Antenna Gain Transmit	68.4 dB
Antenna Gain Receive	68.4 dB
Total Input Power at antenna flange	Up to 6 dBW (4 watts)
Total EIRP for all carries (dBW)	74.4 dBW
Transmit Frequency Range	29.6875 GHz
Receive Frequency Range	19.7-20.2 GHz
Transmit antenna polarization	Left Hand Circular
Receive antenna polarization	Right Hand Circular
Maximum Bandwidth	4kHz
Maximum EIRP per carrier (dBW)	74.4 dBW
Maximum EIRP Density per Carrier (dBW/4kHz)	74.4 dBW/4kHz
Transmit Modulation	Continuous Wave (CW)
Receive Modulation	Continuous Wave (CW)
Range of Satellite Arc E/W Limit	85° W.L to 121° W.L.
Earth Station Azimuth Angle Eastern Limit	163.5°
Antenna Elevation Angle Eastern Limit	41°
Earth Station Azimuth Angle Western Limit	215.2°
Antenna Elevation Angle Western Limit	35.9°
Maximum EIRP Density toward the Horizon	-0.877 dBW/4kHz
Will the tests be operated by remote?	No