

Technical Data for Special Temporary Authority Request

Location (City, State, Coordinates)	Cheyenne, WY Latitude: 41° 7' 55.2" N Longitude: 104° 44' 9.6" W
Site Elevation	1811.9meters
Antenna Diameter	9.2m
Height Above the Ground	10.0m
Antenna Gain Transmit	65.6 dB
Antenna Gain Receive	65.6 dB
Total Input Power at antenna flange	Up to 6 dBW (4 watts)
Total EIRP for all carries (dBW)	71.6 dBW
Transmit Frequency	29.5625 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)	71.6 dBW
Maximum EIRP Density per Carrier (dBW/4kHz)	71.6 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	151.4°
Antenna Elevation Angle Eastern Limit	38.3°
Earth Station Azimuth Angle Western Limit	203.9°
Antenna Elevation Angle Western Limit	195.6°
Maximum EIRP Density toward the Horizon	-1.58 dBW/4kHz
Will the tests be operated by remote?	No