

Technical Data for Special Temporary Authority Request

Location (City, State, Coordinates)	Tukwila, WA, Latitude: 47° 29' 33.0" N Longitude: 122° 17' 42.0" W
Site Elevation	54.5 meters
Antenna Diameter	8.1m
Height Above the Ground	8.3m
Antenna Gain Transmit	65.2 dB
Antenna Gain Receive	65.2 dB
Total Input Power at antenna flange	Up to 6 dBW (4 watts)
Total EIRP for all carries (dBW)	71.2 dBW
Transmit Frequency Range	29.9375 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)	71.2 dBW
Maximum EIRP Density per Carrier (dBW/4kHz)	71.2 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	134.1°
Antenna Elevation Angle Eastern Limit	24.6°
Earth Station Azimuth Angle Western Limit	178.2°
Antenna Elevation Angle Western Limit	35.4°
Maximum EIRP Density toward the Horizon	0.23 dBW/4kHz
Will the tests be operated by remote?	No