

Appendix A Modifications to Existing Authorization

Technical parameters for Sprint's wireless backhaul testing

Modifications and new test sites

Modification – New location for Hub site

Hub site will be moved to:

Hub address: 6220 Sprint Parkway

Lat. Long. North 38.915, West -94.657

Transmitter Power: 33 dBm (2 watts)

Number of Transmitters: 2 (2x2 MIMO)

Antenna Gain: 17.5 dBi

Single Tx E.I.R.P. 50.5 dBm (112.2 watts)

Total Power for two Tx E.I.R.P. 53.5 dBm (224.4 watts Max.)

Antenna center of Radiation 66 feet AGL

Antenna Beam width: 65 deg.

Azimuth 345.5

Existing authorization - azimuth change only:

Remote: 6500 Sprint Parkway, Overland Park, KS

Building height 60 feet AGL

Lat. Long. North 38.919, West -94.659

Transmitter Power 33 dBm (2 watts)

Number of Transmitters 2 (2x2 MIMO)

Antenna Gain 17 dBi

Single Tx E.I.R.P. 50 dBm (100 watts)

Total Power for two Tx E.I.R.P. 53 dBm (200 watts Max.)

Antenna center of Radiation varies in testing from 60 feet AGL (6 feet below building parapet) to 24 feet AGL for Non Line of sight testing.

Antenna Beam width: 65 deg.

Azimuth 158.7 degrees

New Remote

Remote: 6180 Sprint Parkway

Building height 60 feet AGL

Lat. Long. North 38.918, West -94.658

Transmitter Power 33 dBm (2 watts)

Number of Transmitters 2 (2x2 MIMO)

Antenna Gain 17 dBi

Single Tx E.I.R.P. 50 dBm (100 watts)

Total Power for two Tx E.I.R.P. 53 dBm (200 watts Max.)

Antenna center of Radiation varies in testing from 60 feet AGL (6 feet below building parapet) to 24 feet AGL for Non Line of sight testing.

Antenna Beam width: 65 deg.

Azimuth 165.5 degrees

New Remote:

Remote: 6000 Sprint Parkway

Building height: 60 feet AGL

Lat. Long. North 38.92, West -94.656

Transmitter Power 33 dBm (2 watts)

Number of Transmitters 2 (2x2 MIMO)

Antenna Gain 17 dBi

Single Tx E.I.R.P. 50 dBm (100 watts)

Total Power for two Tx E.I.R.P. 53 dBm (200 watts Max.)

Antenna center of Radiation varies in testing from 60 feet AGL (6 feet below building parapet) to 24 feet AGL for Non Line of sight testing.

Antenna Beam width: 65 deg.

Azimuth 188.8 degrees

New Remote:

Parking garage M for Buildings 6360 and 6330 Sprint Parkway

Structure height: 60 feet

Lat. Long. North 38.915, West -94.661

Transmitter Power 33 dBm (2 watts)

Number of Transmitters 2 (2x2 MIMO)

Antenna Gain 17 dBi

Single Tx E.I.R.P. 50 dBm (100 watts)

Total Power for two Tx E.I.R.P. 53 dBm (200 watts Max.)

Antenna center of Radiation varies in testing from 50 feet AGL (rooftop) to 24 feet AGL for Non Line of sight testing.

Antenna Beam width: 65 deg.

Azimuth 90 degrees

New Remote:

Parking garage I for Building 6500 Sprint Parkway

Structure height: 60 feet

Lat. Long. North 38.920, West -94.66

Transmitter Power 33 dBm (2 watts)

Number of Transmitters 2 (2x2 MIMO)

Antenna Gain 17 dBi

Single Tx E.I.R.P. 50 dBm (100 watts)

Total Power for two Tx E.I.R.P. 53 dBm (200 watts Max.)

Antenna center of Radiation varies in testing from 50 feet AGL (rooftop) to 24 feet AGL for Non Line of sight testing.

Antenna Beam width: 65 degrees

Azimuth 155 degrees

Existing authorization with azimuth change only:

Parking garage D for Buildings 6050 and 6000 Sprint Parkway

Structure height: 60 feet

Lat. Long. North 38.919, West -94.655

Transmitter Power 33 dBm (2 watts)

Number of Transmitters 2 (2x2 MIMO)

Antenna Gain 17 dBi

Single Tx E.I.R.P. 50 dBm (100 watts)

Total Power for two Tx E.I.R.P. 53 dBm (200 watts Max.)

Antenna center of Radiation varies in testing from 50 feet AGL (rooftop) to 24 feet AGL for Non Line of sight testing.

Antenna Beam width: 65 degrees

Azimuth 201.3 degrees