

**Microwave Path Data Sheet
COMSEARCH**

19700 Janelia Farm Boulevard, Ashburn, VA, 20147
(703)726-5706 www.comsearch.com
Job Number: 180130COMSRP03

Date: 01/30/2018

Adaptive Modulation Prior Coordination Notice

One or more paths in this Prior Coordination Notice (PCN) use microwave radios with Adaptive Modulation. These paths can be identified by a numerical superscript notation immediately following the Radio Code on the path data sheet.

The superscript notation can be cross referenced to the corresponding table(s) below to identify the various modulation modes in which the microwave path will operate.

**(1) Master Radio Code: X06839 - Aviat Networks, Inc.
Pages: 3**

Radio Code	Model	Model Description	Emission Designator	Modulation	Loading (Mbps)	Stability (%)	Coordinated Power (dBm)
TEAN80	CTRE6SPL6-30M 1024Q 230	CTR 8540 8300 ODU 600 RAC 1X 2X	30M0D7W	1024 QAM	1 CH DIG 230.0	0.0005	25.0
TEAN81	CTRE6SPL6-30M 512Q 210	CTR 8540 8300 ODU 600 RAC 1X 2X	30M0D7W	512 QAM	1 CH DIG 210.0	0.0005	26.0
TEAN82	CTRE6SPL6-30M 256Q 180	CTR 8540 8300 ODU 600 RAC 1X 2X	30M0D7W	256 QAM	1 CH DIG 180.0	0.0005	28.0
TEAN83	CTRE6SPL6-30M 128Q 155	CTR 8540 8300 ODU 600 RAC 1X 2X	30M0D7W	128 QAM	1 CH DIG 155.0	0.0005	28.0
TEAN84	CTRE6SPL6-30M 64Q 135	CTR 8540 8300 ODU 600 RAC 1X 2X	30M0D7W	64 QAM	1 CH DIG 135.0	0.0005	28.5
TEAN85	CTRE6SPL6-30M 32Q 108	CTR 8540 8300 ODU 600 RAC 1X 2X	30M0D7W	32 QAM	1 CH DIG 108.0	0.0005	28.5
TEAN86	CTRE6SPL6-30M 16Q 90	CTR 8540 8300 ODU 600 RAC 1X 2X	30M0D7W	16 QAM	1 CH DIG 90.0	0.0005	28.5
TEAN87	CTRE6SPL6-30M QPSK 39	CTR 8540 8300 ODU 600 RAC 1X 2X	30M0G7W	QPSK	1 CH DIG 39.0	0.0005	29.0

**(2) Master Radio Code: X06892 - Aviat Networks, Inc.
Pages: 1-2**

Radio Code	Model	Model Description	Emission Designator	Modulation	Loading (Mbps)	Stability (%)	Coordinated Power (dBm)
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Date: 01/30/2018

TEAD10	CTRE6HPL6-30M 1024Q 230	CTR 8540 8300 ODU 600 RAC 1X 2X	30M0D7W	1024 QAM	1 CH DIG 230.0	0.0005	28.0
TEAD11	CTRE6HPL6-30M 512Q 210	CTR 8540 8300 ODU 600 RAC 1X 2X	30M0D7W	512 QAM	1 CH DIG 210.0	0.0005	29.0
TEAD12	CTRE6HPL6-30M 256Q 180	CTR 8540 8300 ODU 600 RAC 1X 2X	30M0D7W	256 QAM	1 CH DIG 180.0	0.0005	31.0
TEAD13	CTRE6HPL6-30M 128Q 155	CTR 8540 8300 ODU 600 RAC 1X 2X	30M0D7W	128 QAM	1 CH DIG 155.0	0.0005	31.0
TEAD14	CTRE6HPL6-30M 64Q 135	CTR 8540 8300 ODU 600 RAC 1X 2X	30M0D7W	64 QAM	1 CH DIG 135.0	0.0005	31.5
TEAD15	CTRE6HPL6-30M 32Q 108	CTR 8540 8300 ODU 600 RAC 1X 2X	30M0D7W	32 QAM	1 CH DIG 108.0	0.0005	31.5
TEAD16	CTRE6HPL6-30M 16Q 90	CTR 8540 8300 ODU 600 RAC 1X 2X	30M0D7W	16 QAM	1 CH DIG 90.0	0.0005	31.5
TEAD17	CTRE6HPL6-30M QPSK 39	CTR 8540 8300 ODU 600 RAC 1X 2X	30M0G7W	QPSK	1 CH DIG 39.0	0.0005	32.0

(3) Master Radio Code: X11F04 - Aviat Networks, Inc.

Pages: 6

Radio Code	Model	Model Description	Emission Designator	Modulation	Loading (Mbps)	Stability (%)	Coordinated Power (dBm)
TEPX50	CTRE6HP11-40M 1024Q 300	CTR 8540 8300 ODU 600 RAC 1X 2X	40M0D7W	1024 QAM	1 CH DIG 300.0	0.0005	26.0
TEPX51	CTRE6HP11-40M 512Q 275	CTR 8540 8300 ODU 600 RAC 1X 2X	40M0D7W	512 QAM	1 CH DIG 275.0	0.0005	27.0
TEPX52	CTRE6HP11-40M 256Q 240	CTR 8540 8300 ODU 600 RAC 1X 2X	40M0D7W	256 QAM	1 CH DIG 240.0	0.0005	28.0
TEPX53	CTRE6HP11-40M 128Q 210	CTR 8540 8300 ODU 600 RAC 1X 2X	40M0D7W	128 QAM	1 CH DIG 210.0	0.0005	28.0

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TEPX54	CTRE6HP11-40M 64Q 178	CTR 8540 8300 ODU 600 RAC 1X 2X	40M0D7W	64 QAM	1 CH DIG 178.0	0.0005	28.5
TEPX55	CTRE6HP11-40M 32Q 135	CTR 8540 8300 ODU 600 RAC 1X 2X	40M0D7W	32 QAM	1 CH DIG 135.0	0.0005	28.5
TEPX56	CTRE6HP11-40M 16Q 120	CTR 8540 8300 ODU 600 RAC 1X 2X	40M0D7W	16 QAM	1 CH DIG 120.0	0.0005	28.5
TEPX57	CTRE6HP11-40M QPSK 53	CTR 8540 8300 ODU 600 RAC 1X 2X	40M0G7W	QPSK	1 CH DIG 53.0	0.0005	29.0

**(4) Master Radio Code: X11F38 - Aviat Networks, Inc.
Pages: 4**

Radio Code	Model	Model Description	Emission Designator	Modulation	Loading (Mbps)	Stability (%)	Coordinated Power (dBm)
TEAN90	CTRE6SP11-40M 1024Q 300	CTR 8540 8300 ODU 600 RAC 1X 2X	40M0D7W	1024 QAM	1 CH DIG 300.0	0.0005	23.0
TEAN91	CTRE6SP11-40M 512Q 275	CTR 8540 8300 ODU 600 RAC 1X 2X	40M0D7W	512 QAM	1 CH DIG 275.0	0.0005	24.0
TEAN92	CTRE6SP11-40M 256Q 240	CTR 8540 8300 ODU 600 RAC 1X 2X	40M0D7W	256 QAM	1 CH DIG 240.0	0.0005	25.0
TEAN93	CTRE6SP11-40M 128Q 210	CTR 8540 8300 ODU 600 RAC 1X 2X	40M0D7W	128 QAM	1 CH DIG 210.0	0.0005	25.0
TEAN94	CTRE6SP11-40M 64Q 178	CTR 8540 8300 ODU 600 RAC 1X 2X	40M0D7W	64 QAM	1 CH DIG 178.0	0.0005	25.5
TEAN95	CTRE6SP11-40M 32Q 135	CTR 8540 8300 ODU 600 RAC 1X 2X	40M0D7W	32 QAM	1 CH DIG 135.0	0.0005	25.5
TEAN96	CTRE6SP11-40M 16Q 120	CTR 8540 8300 ODU 600 RAC 1X 2X	40M0D7W	16 QAM	1 CH DIG 120.0	0.0005	25.5
TEAN97	CTRE6SP11-40M QPSK 53	CTR 8540 8300 ODU 600 RAC 1X 2X	40M0G7W	QPSK	1 CH DIG 53.0	0.0005	26.0

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**(5) Master Radio Code: X11T56 - Aviat Networks, Inc.
Pages: 5**

Radio Code	Model	Model Description	Emission Designator	Modulation	Loading (Mbps)	Stability (%)	Coordinated Power (dBm)
TEAG67	CTRE6SP11-30M 1024Q 230	CTR 8540 8300 ODU 600 RAC 1X 2X	30M0D7W	1024 QAM	1 CH DIG 230.0	0.0005	23.0
TEAG68	CTRE6SP11-30M 512Q 210	CTR 8540 8300 ODU 600 RAC 1X 2X	30M0D7W	512 QAM	1 CH DIG 210.0	0.0005	24.0
TEAG69	CTRE6SP11-30M 256Q 180	CTR 8540 8300 ODU 600 RAC 1X 2X	30M0D7W	256 QAM	1 CH DIG 180.0	0.0005	25.0
TEAG70	CTRE6SP11-30M 128Q 155	CTR 8540 8300 ODU 600 RAC 1X 2X	30M0D7W	128 QAM	1 CH DIG 155.0	0.0005	25.0
TEAG71	CTRE6SP11-30M 64Q 135	CTR 8540 8300 ODU 600 RAC 1X 2X	30M0D7W	64 QAM	1 CH DIG 135.0	0.0005	25.5
TEAG72	CTRE6SP11-30M 32Q 108	CTR 8540 8300 ODU 600 RAC 1X 2X	30M0D7W	32 QAM	1 CH DIG 108.0	0.0005	25.5
TEAG73	CTRE6SP11-30M 16Q 90	CTR 8540 8300 ODU 600 RAC 1X 2X	30M0D7W	16 QAM	1 CH DIG 90.0	0.0005	25.5
TEAG74	CTRE6SP11-30M QPSK 39	CTR 8540 8300 ODU 600 RAC 1X 2X	30M0G7W	QPSK	1 CH DIG 39.0	0.0005	26.0

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PCN Date: 01/30/2018
Job Number: 180130COMSRP03

New Path
RCN Number: 18013015

Administrative Information

5AS1242A NC
City/County /CHEROKEE
Status / License Basis Engineering Proposal / PRIMARY OPERATION
Call Sign WQXU280
Licensee Code OMNPTC
Licensee Name T-Mobile License LLC
Radio Service / Station Class CF -- Point-to-Point Microwave, Common Carrier

5AS1239A NC
City/County /GRAHAM
Status / License Basis Engineering Proposal / PRIMARY OPERATION
Licensee Code OMNPTC
Licensee Name T-Mobile License LLC
Radio Service / Station Class FXO -- Fixed

Site Information

Latitude (NAD 83) 35 ° 5' 2.1" N
Longitude (NAD 83) 84 ° 2' 43.1" W
Ground Elevation (m/ft-AMSL) 532.40 / 1746.7
Antenna Structure Registration # 1000282
Path Azimuth (°) 49.568
Path Length (km / miles) 29.852 / 18.549

Latitude (NAD 83) 35 ° 15' 29.4" N
Longitude (NAD 83) 83 ° 47' 44.2" W
Ground Elevation (m/ft-AMSL) 1430.40 / 4692.9
Antenna Structure Registration # 1277325
Path Azimuth (°) 229.711

Transmit Antenna

41408C
Manufacturer RFS
Model SB4-W60D
Gain(dBi) / Beamwidth(°) / Tilt(°) 35.7 / 2.60 / 1.59
Centerline (m / ft - AGL) 61.57 / 202.0

41408C
Manufacturer RFS
Model SB4-W60D
Gain(dBi) / Beamwidth(°) / Tilt(°) 35.7 / 2.60 / -1.79
Centerline (m / ft - AGL) 42.67 / 140.0

Receive Antenna

Same As Transmit

Manufacturer
Model
Gain (dBi) / Beamwidth (°)
Centerline (m / ft - AGL)

Diversity Receive Antenna

Manufacturer
Model
Gain (dBi) / Beamwidth (°)
Centerline (m / ft - AGL)

Radio Information

X06892²
Manufacturer Aviat Networks, Inc.
Model CTRE6HPL6-30M ACM
Model Description CTR 8540 8300 ODU 600 1024QAM-QPSK
Emission Designator / Modulation 30M0D7W 1024 QAM
Loading 1 CH DIG 230000.000
Stability (%) 0.0005
Nominal Coordinated Maximum
Power (dBm) 12.0 32.0 32.0
Received Level (dBm) -54.4 -34.4 -34.4
EIRP (dBm) 67.7
Fixed Loss: Tx / Common (dB) 0.0 / 0.0
Free Space Loss (dB) 137.8

X06892²
Manufacturer Aviat Networks, Inc.
Model CTRE6HPL6-30M ACM
Model Description CTR 8540 8300 ODU 600 1024QAM-QPSK
Emission Designator / Modulation 30M0D7W 1024 QAM
Loading 1 CH DIG 230000.000
Stability (%) 0.0005
Nominal Coordinated Maximum
Power (dBm) 12.0 32.0 32.0
Received Level (dBm) -54.4 -34.4 -34.4
EIRP (dBm) 67.7
Fixed Loss: Tx / Common (dB) 0.0 / 0.0

Transmit Frequencies (MHz) 6004.5000V(13T)

6256.5400V(23T)

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PCN Date: 01/30/2018
Job Number 180130COMSRP03

New Path
RCN Number: 18013015

Administrative Information

5GW0914D NC
City/County /BEAUFORT
Status / License Basis Engineering Proposal / PRIMARY OPERATION
Call Sign
Licensee Code OMNPTC
Licensee Name T-Mobile License LLC
Radio Service / Station Class CF -- Point-to-Point Microwave, Common Carrier

5NB0906B NC
City/County /BEAUFORT
Status / License Basis Engineering Proposal / PRIMARY OPERATION
Call Sign
Licensee Code OMNPTC
Licensee Name T-Mobile License LLC
Radio Service / Station Class FXO -- Fixed

Site Information

Latitude (NAD 83) 35 ° 32' 25.8" N
Longitude (NAD 83) 77 ° 0' 23.6" W
Ground Elevation (m/ft-AMSL) 4.80 / 15.7
Antenna Structure Registration # 1057697
Path Azimuth (°) 132.260
Path Length (km / miles) 28.775 / 17.880

35 ° 21' 57.1" N
76 ° 46' 20.0" W
3.40 / 11.2
1300976
312.396

Transmit Antenna

41403C
Manufacturer RFS
Model SB6-W60C
Gain(dBi) / Beamwidth(°) / Tilt(°) 39.4 / 1.70 / -0.09
Centerline (m / ft - AGL) 71.32 / 234.0

41403C
Manufacturer RFS
Model SB6-W60C
Gain(dBi) / Beamwidth(°) / Tilt(°) 39.4 / 1.70 / -0.10
Centerline (m / ft - AGL) 76.20 / 250.0

Receive Antenna

Same As Transmit

Manufacturer
Model
Gain (dBi) / Beamwidth (°)
Centerline (m / ft - AGL)

Diversity Receive Antenna

Manufacturer
Model
Gain (dBi) / Beamwidth (°)
Centerline (m / ft - AGL)

Radio Information

X06892²
Manufacturer Aviat Networks, Inc.
Model CTRE6HPL6-30M ACM
Model Description CTR 8540 8300 ODU 600 1024QAM-QPSK
Emission Designator / Modulation 30M0D7W 1024 QAM
Loading 1 CH DIG 230000.000
Stability (%) 0.0005
Nominal Coordinated Maximum
Power (dBm) 12.0 32.0 32.0
Received Level (dBm) -46.7 -26.7 -26.7
EIRP (dBm) 71.4
Fixed Loss: Tx / Common (dB) 0.0 / 0.0
Free Space Loss (dB) 137.5

X06892²
Manufacturer Aviat Networks, Inc.
Model CTRE6HPL6-30M ACM
Model Description CTR 8540 8300 ODU 600 1024QAM-QPSK
Emission Designator / Modulation 30M0D7W 1024 QAM
Loading 1 CH DIG 230000.000
Stability (%) 0.0005
Nominal Coordinated Maximum
Power (dBm) 12.0 32.0 32.0
Received Level (dBm) -46.7 -26.7 -26.7
EIRP (dBm) 71.4
Fixed Loss: Tx / Common (dB) 0.0 / 0.0

Transmit Frequencies (MHz) 6034.1500V(14T)

6286.1900V(24T)

Microwave Path Data Sheet

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PCN Date: 01/30/2018
Job Number 180130COMSRP03

New Path
RCN Number: 18013015

Administrative Information

5AS1219A NC
City/County /JACKSON
Status / License Basis Engineering Proposal / PRIMARY OPERATION
Call Sign
Licensee Code OMNPTC
Licensee Name T-Mobile License LLC
Radio Service / Station Class CF -- Point-to-Point Microwave, Common Carrier

5AS1215B NC
City/County /SWAIN
Status / License Basis Engineering Proposal / PRIMARY OPERATION
Call Sign WQYV900
Licensee Code OMNPTC
Licensee Name T-Mobile License LLC
Radio Service / Station Class FXO -- Fixed

Site Information

Latitude (NAD 83) 35 ° 27' 37.1" N
Longitude (NAD 83) 83 ° 18' 2.5" W
Ground Elevation (m/ft-AMSL) 752.90 / 2470.1
Antenna Structure Registration # 1253955
Path Azimuth (°) 253.946
Path Length (km / miles) 18.868 / 11.724

Latitude (NAD 83) 35 ° 24' 47.2" N
Longitude (NAD 83) 83 ° 30' 1.2" W
Ground Elevation (m/ft-AMSL) 990.20 / 3248.7
Path Azimuth (°) 73.831

Transmit Antenna

41408C
Manufacturer RFS
Model SB4-W60D
Gain(dBi) / Beamwidth(°) / Tilt(°) 35.7 / 2.60 / 0.65
Centerline (m / ft - AGL) 36.58 / 120.0

41408C
Manufacturer RFS
Model SB4-W60D
Gain(dBi) / Beamwidth(°) / Tilt(°) 35.7 / 2.60 / -0.78
Centerline (m / ft - AGL) 35.05 / 115.0

Receive Antenna

Same As Transmit

Manufacturer
Model
Gain (dBi) / Beamwidth (°)
Centerline (m / ft - AGL)

Diversity Receive Antenna

Manufacturer
Model
Gain (dBi) / Beamwidth (°)
Centerline (m / ft - AGL)

Radio Information

X06839¹
Manufacturer Aviat Networks, Inc.
Model CTRE6SPL6-30M ACM
Model Description CTR 8540 8300 ODU 600 1024QAM-QPSK
Emission Designator / Modulation 30M0D7W 1024 QAM
Loading 1 CH DIG 230000.000
Stability (%) 0.0005
Nominal Coordinated Maximum
Power (dBm) 12.0 29.0 29.0
Received Level (dBm) -50.4 -33.4 -33.4
EIRP (dBm) 64.7
Fixed Loss: Tx / Common (dB) 0.0 / 0.0
Free Space Loss (dB) 133.8

X06839¹
Manufacturer Aviat Networks, Inc.
Model CTRE6SPL6-30M ACM
Model Description CTR 8540 8300 ODU 600 1024QAM-QPSK
Emission Designator / Modulation 30M0D7W 1024 QAM
Loading 1 CH DIG 230000.000
Stability (%) 0.0005
Nominal Coordinated Maximum
Power (dBm) 12.0 29.0 29.0
Received Level (dBm) -50.4 -33.4 -33.4
EIRP (dBm) 64.7
Fixed Loss: Tx / Common (dB) 0.0 / 0.0

Transmit Frequencies (MHz) 6315.8400V(25T) 6375.1400V(27T) 6063.8000V(15T) 6123.1000V(17T)

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PCN Date: 01/30/2018
Job Number 180130COMSRP03

New Path
RCN Number: 18013015

Administrative Information

5GB0162A NC
City/County /GUILFORD
Status / License Basis Engineering Proposal / PRIMARY OPERATION
Call Sign
Licensee Code OMNPTC
Licensee Name T-Mobile License LLC
Radio Service / Station Class CF -- Point-to-Point Microwave, Common Carrier

5GB0387A NC
City/County /FORSYTH
Status / License Basis Engineering Proposal / PRIMARY OPERATION
Call Sign
Licensee Code OMNPTC
Licensee Name T-Mobile License LLC
Radio Service / Station Class FXO -- Fixed

Site Information

Latitude (NAD 83) 36 ° 12' 37.1" N
Longitude (NAD 83) 80 ° 1' 19.1" W
Ground Elevation (m/ft-AMSL) 282.50 / 926.8
Antenna Structure Registration # 1237687
Path Azimuth (°) 301.845
Path Length (km / miles) 6.605 / 4.104

Latitude (NAD 83) 36 ° 14' 30.1" N
Longitude (NAD 83) 80 ° 5' 3.8" W
Ground Elevation (m/ft-AMSL) 262.10 / 859.9
Antenna Structure Registration # 1232190
Path Azimuth (°) 121.809

Transmit Antenna

70806C
Manufacturer RFS
Model SC2-W100B
Gain(dBi) / Beamwidth(°) / Tilt(°) 34.8 / 3.00 / -0.18
Centerline (m / ft - AGL) 58.52 / 192.0

70806C
Manufacturer RFS
Model SC2-W100B
Gain(dBi) / Beamwidth(°) / Tilt(°) 34.8 / 3.00 / 0.13
Centerline (m / ft - AGL) 60.96 / 200.0

Receive Antenna

Same As Transmit

Manufacturer
Model
Gain (dBi) / Beamwidth (°)
Centerline (m / ft - AGL)

Diversity Receive Antenna

Manufacturer
Model
Gain (dBi) / Beamwidth (°)
Centerline (m / ft - AGL)

Radio Information

X11F38⁴
Manufacturer Aviat Networks, Inc.
Model CTRE6SP11-40-ACM
Model Description CTR 8540 8300 ODU 600 1024QAM-QPSK
Emission Designator / Modulation 40M0D7W 1024 QAM
Loading 1 CH DIG 300000.000
Stability (%) 0.0005
Nominal Coordinated Maximum
Power (dBm) 9.0 26.0 26.0
Received Level (dBm) -51.2 -34.2 -34.2
EIRP (dBm) 60.8
Fixed Loss: Tx / Common (dB) 0.0 / 0.0
Free Space Loss (dB) 129.8

X11F38⁴
Manufacturer Aviat Networks, Inc.
Model CTRE6SP11-40-ACM
Model Description CTR 8540 8300 ODU 600 1024QAM-QPSK
Emission Designator / Modulation 40M0D7W 1024 QAM
Loading 1 CH DIG 300000.000
Stability (%) 0.0005
Nominal Coordinated Maximum
Power (dBm) 9.0 26.0 26.0
Received Level (dBm) -51.2 -34.2 -34.2
EIRP (dBm) 60.8
Fixed Loss: Tx / Common (dB) 0.0 / 0.0

Transmit Frequencies (MHz) 10775.0000S(2) 10855.0000S(4) 11265.0000S(2) 11345.0000S(4)

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Job Number 180130COMSRP03

New Path
RCN Number: 18013015

Administrative Information

5AS1215B NC
City/County /SWAIN
Status / License Basis Engineering Proposal / PRIMARY OPERATION
Call Sign WQYV900
Licensee Code OMNPTC
Licensee Name T-Mobile License LLC
Radio Service / Station Class CF -- Point-to-Point Microwave, Common Carrier

5AS1216A NC
City/County /SWAIN
Status / License Basis Engineering Proposal / PRIMARY OPERATION
Licensee Code OMNPTC
Licensee Name T-Mobile License LLC
Radio Service / Station Class FXO -- Fixed

Site Information

Latitude (NAD 83) 35 ° 24' 47.2" N
Longitude (NAD 83) 83 ° 30' 1.2" W
Ground Elevation (m/ft-AMSL) 990.20 / 3248.7
Antenna Structure Registration #
Path Azimuth (°) 66.338
Path Length (km / miles) 6.425 / 3.992

35 ° 26' 10.8" N
83 ° 26' 7.9" W
594.40 / 1950.1
1000280
246.376

Transmit Antenna

70806C
Manufacturer RFS
Model SC2-W100B
Gain(dBi) / Beamwidth(°) / Tilt(°) 34.8 / 3.00 / -3.22
Centerline (m / ft - AGL) 35.05 / 115.0

70806C
Manufacturer RFS
Model SC2-W100B
Gain(dBi) / Beamwidth(°) / Tilt(°) 34.8 / 3.00 / 3.22
Centerline (m / ft - AGL) 67.36 / 221.0

Receive Antenna

Same As Transmit

Manufacturer
Model
Gain (dBi) / Beamwidth (°)
Centerline (m / ft - AGL)

Diversity Receive Antenna

Manufacturer
Model
Gain (dBi) / Beamwidth (°)
Centerline (m / ft - AGL)

Radio Information

X11T56⁵
Manufacturer Aviat Networks, Inc.
Model CTRE6SP11-30M 1024Q 230
Model Description CTR 8540 8300 ODU 600 1024QAM-QPSK
Emission Designator / Modulation 30M0D7W 1024 QAM
Loading 1 CH DIG 230000.000
Stability (%) 0.0005
Nominal Coordinated Maximum
Power (dBm) 9.0 26.0 26.0
Received Level (dBm) -51.0 -34.0 -34.0
EIRP (dBm) 60.8
Fixed Loss: Tx / Common (dB) 0.0 / 0.0
Free Space Loss (dB) 129.6

X11T56⁵
Manufacturer Aviat Networks, Inc.
Model CTRE6SP11-30M 1024Q 230
Model Description CTR 8540 8300 ODU 600 1024QAM-QPSK
Emission Designator / Modulation 30M0D7W 1024 QAM
Loading 1 CH DIG 230000.000
Stability (%) 0.0005
Nominal Coordinated Maximum
Power (dBm) 9.0 26.0 26.0
Received Level (dBm) -51.0 -34.0 -34.0
EIRP (dBm) 60.8
Fixed Loss: Tx / Common (dB) 0.0 / 0.0

Transmit Frequencies (MHz) 11075.0000H(10) 11115.0000V(11) 11565.0000H(10) 11605.0000V(11)

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COMSEARCH

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PCN Date: 01/30/2018
Job Number 180130COMSRP03

New Path
RCN Number: 18013015

Administrative Information

5AS1215B NC
City/County /SWAIN
Status / License Basis Engineering Proposal / PRIMARY OPERATION
Call Sign WQYV900
Licensee Code OMNPTC
Licensee Name T-Mobile License LLC
Radio Service / Station Class CF -- Point-to-Point Microwave, Common Carrier

5AS1217A NC
City/County /SWAIN
Status / License Basis Engineering Proposal / PRIMARY OPERATION
Call Sign WQYV888
Licensee Code OMNPTC
Licensee Name T-Mobile License LLC
Radio Service / Station Class FXO -- Fixed

Site Information

Latitude (NAD 83) 35 ° 24' 47.2" N
Longitude (NAD 83) 83 ° 30' 1.2" W
Ground Elevation (m/ft-AMSL) 990.20 / 3248.7
Antenna Structure Registration #
Path Azimuth (°) 76.325
Path Length (km / miles) 11.619 / 7.220

Latitude (NAD 83) 35 ° 26' 16.1" N
Longitude (NAD 83) 83 ° 22' 33.6" W
Ground Elevation (m/ft-AMSL) 626.56 / 2055.6
Path Azimuth (°) 256.397

Transmit Antenna

73101C
Manufacturer RFS
Model SC3-W100A
Gain(dBi) / Beamwidth(°) / Tilt(°) 38.3 / 2.00 / -1.78
Centerline (m / ft - AGL) 35.05 / 115.0

73101C
Manufacturer RFS
Model SC3-W100A
Gain(dBi) / Beamwidth(°) / Tilt(°) 38.3 / 2.00 / 1.70
Centerline (m / ft - AGL) 45.11 / 148.0

Receive Antenna

Same As Transmit

Manufacturer
Model
Gain (dBi) / Beamwidth (°)
Centerline (m / ft - AGL)

Diversity Receive Antenna

Manufacturer
Model
Gain (dBi) / Beamwidth (°)
Centerline (m / ft - AGL)

Radio Information

X11F04³
Manufacturer Aviat Networks, Inc.
Model CTRE6HP11-40M-ACM
Model Description CTR 8540 8300 ODU 600 1024QAM-QPSK
Emission Designator / Modulation 40M0D7W 1024 QAM
Loading 1 CH DIG 300000.000
Stability (%) 0.0005
Nominal Coordinated Maximum
Power (dBm) 9.0 29.0 29.0
Received Level (dBm) -49.2 -29.2 -29.2
EIRP (dBm) 67.3
Fixed Loss: Tx / Common (dB) 0.0 / 0.0
Free Space Loss (dB) 134.8

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Fixed Loss: Tx / Common (dB) 0.0 / 0.0

Transmit Frequencies (MHz)	10735.0000V(1)	10815.0000V(3)	11225.0000V(1)	11305.0000V(3)
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