

PCN Date: 11/04/2010
Job Number: 101104COMSFB06

Prev Job Num: 061206COMSKN01
RCN Number: 10110426

Administrative Information

City/County Bay Point/Contra Costa
Status / License Basis Engineering Proposal / PRIMARY OPERATION
Call Sign WLM382
Licensee Code 5165A1
Licensee Name New Cingular Wireless PCS LLC – N C
Radio Service / Station Class CF -- Point-to-Point Microwave, Common Carrier

VOLLMER PK CA

/Contra Costa
Engineering Proposal / PRIMARY OPERATION
WLM381
5165A1
New Cingular Wireless PCS LLC – N C
FXO -- Fixed

Site Information

Latitude (NAD 83)	38 °1' 48.5" N	37 °52' 56.5" N
Longitude (NAD 83)	122 °0' 8.0" W	122 °13' 15.1" W
Ground Elevation (m/ft–AMSL)	184.10 / 604.0	552.90 / 1814.0
Antenna Structure Registration #	1051047	1010568
Path Azimuth (°)	229.582	49.447
Path Length (km / miles)	25.264 / 15.698	

Transmit Antenna

Manufacturer	A64100	A64100
Model	ANDREW CORPORATION	ANDREW CORPORATION
Gain(dBi) / Beamwidth(°) / Tilt(°)	HP8–59E	HP8–59E
Centerline (m / ft – AGL)	41.5 / 1.40 / 0.85	41.5 / 1.40 / –1.02
	2.74 / 9.0	44.20 / 145.0

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

Manufacturer	<u>TEMT32</u>	<u>TEMT32</u>
Model	<u>Alcatel-Lucent USA, Inc.</u>	<u>Alcatel-Lucent USA, Inc.</u>
Model Description	<u>95MPR61–H256F30–183</u>	<u>95MPR61–H256F30–183</u>
Emission Designator / Modulation	<u>9500 MPR Indoor Fixed Modulation</u>	<u>9500 MPR Indoor Fixed Modulation</u>
Loading	<u>30M0D7W</u> <u>256 QAM</u>	<u>30M0D7W</u> <u>256 QAM</u>
Stability (%)	<u>1 CH DIG 183000.000</u>	<u>1 CH DIG 183000.000</u>
	0.001	0.001
	Nominal Coordinated Maximum	Nominal Coordinated Maximum
Power (dBm)	<u>28.0</u>	<u>28.0</u>
Received Level (dBm)	<u>–30.9</u>	<u>–30.9</u>
EIRP (dBm)	<u>67.8</u>	<u>65.6</u>
Fixed Loss: Tx / Common (dB)	0.0 / <u>1.7</u>	0.0 / <u>3.9</u>
Free Space Loss (dB)		136.3

Transmit Frequencies (MHz) 6197.2400V(21T)

5945.2000V(11T)

Administrative Information

City/County San Jose/Santa Clara
Status / License Basis Engineering Proposal / PRIMARY OPERATION
Call Sign WPSQ456
Licensee Code 5165A1
Licensee Name New Cingular Wireless PCS LLC – N C
Radio Service / Station Class CF -- Point-to-Point Microwave, Common Carrier

MT CHUAL CA

/Santa Clara
Engineering Proposal / PRIMARY OPERATION
WLM613
5165A1
New Cingular Wireless PCS LLC – N C
FXO -- Fixed

Site Information

Latitude (NAD 83)	37 °19' 6.1" N	37 °7' 8.6" N
Longitude (NAD 83)	121 °49' 47.2" W	121 °50' 1.6" W
Ground Elevation (m/ft-AMSL)	38.40 / 126.0	1087.83 / 3569.0
Antenna Structure Registration #		
Path Azimuth (°)	180.921	0.918
Path Length (km / miles)	22.122 / 13.746	

Transmit Antenna

Manufacturer	41729A	41729A
Model	ANDREW CORPORATION	ANDREW CORPORATION
Gain(dBi) / Beamwidth(°) / Tilt(°)	UHX6-59L RF	UHX6-59L RF
Centerline (m / ft – AGL)	38.8 / 1.80 / 2.65	38.8 / 1.80 / -2.80
	3.96 / 13.0	9.14 / 30.0

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

Manufacturer	TEMU53	TEMU53
Model	Alcatel-Lucent USA, Inc.	Alcatel-Lucent USA, Inc.
Model Description	95MPR61-H128F30-160	95MPR61-H128F30-160
Emission Designator / Modulation	9500 MPR Indoor Fixed Modulation	9500 MPR Indoor Fixed Modulation
Loading	30M0D7W 128 QAM	30M0D7W 128 QAM
Stability (%)	1 CH DIG 160000.000	1 CH DIG 160000.000
	0.001	0.001
	Nominal Coordinated Maximum	Nominal Coordinated Maximum
Power (dBm)	31.0	31.0
Received Level (dBm)	-32.2	-30.2
EIRP (dBm)	68.1	65.9
Fixed Loss: Tx / Common (dB)	0.0 / 1.7	2.0 / 1.9
Free Space Loss (dB)		135.2

Transmit Frequencies (MHz) 6093.4500H(16T)

6345.4900H(26T)

Administrative Information	VOLLMER PK CA	TOLL FLATS CA
City/County	/Contra Costa	Oakland/Alameda
Status / License Basis	Engineering Proposal / PRIMARY OPERATION	Engineering Proposal / PRIMARY OPERATION
Call Sign	WLM381	WPTA862
Licensee Code	5165A1	5165A1
Licensee Name	New Cingular Wireless PCS LLC – N C	New Cingular Wireless PCS LLC – N C
Radio Service / Station Class	CF -- Point-to-Point Microwave, Common Carrier	FXO -- Fixed

Site Information

Latitude (NAD 83)	37 °52' 56.5" N	37 °49' 31.9" N
Longitude (NAD 83)	122 °13' 15.1" W	122 °18' 1.7" W
Ground Elevation (m/ft–AMSL)	552.90 / 1814.0	2.74 / 9.0
Antenna Structure Registration #	1010568	
Path Azimuth (°)	228.026	47.977
Path Length (km / miles)	9.428 / 5.858	

Transmit Antenna

Manufacturer	52472A	52472A
Model	ANDREW CORPORATION	ANDREW CORPORATION
Gain(dBi) / Beamwidth(°) / Tilt(°)	PAR6–59B	PAR6–59B
Centerline (m / ft – AGL)	38.2 / 1.90 / –3.60	38.2 / 1.90 / 3.54
	45.72 / 150.0	7.32 / 24.0

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

Manufacturer	TEMT32	TEMT32
Model	Alcatel–Lucent USA, Inc.	Alcatel–Lucent USA, Inc.
Model Description	95MPR61–H256F30–183	95MPR61–H256F30–183
Emission Designator / Modulation	9500 MPR Indoor Fixed Modulation	9500 MPR Indoor Fixed Modulation
Loading	30M0D7W 256 QAM	30M0D7W 256 QAM
Stability (%)	1 CH DIG 183000.000	1 CH DIG 183000.000
	0.001	0.001
	Nominal Coordinated Maximum	Nominal Coordinated Maximum
Power (dBm)	28.0	28.0
Received Level (dBm)	–28.8	–28.8
EIRP (dBm)	62.6	64.4
Fixed Loss: Tx / Common (dB)	0.0 / 3.6	0.0 / 1.8
Free Space Loss (dB)		127.8

Transmit Frequencies (MHz)	6226.8900V(22T)	5974.8500V(12T)
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Administrative Information

City/County San Pablo/Contra Costa
Status / License Basis Engineering Proposal / PRIMARY OPERATION
Call Sign WLM385
Licensee Code 5165A1
Licensee Name New Cingular Wireless PCS LLC – N C
Radio Service / Station Class CF -- Point-to-Point Microwave, Common Carrier

ALBANY CA

Richmond/Contra Costa
Engineering Proposal / PRIMARY OPERATION
WLV224
5165A1
New Cingular Wireless PCS LLC – N C
FXO -- Fixed

Site Information

Latitude (NAD 83)	37 °57' 11.8" N	37 °55' 18.6" N
Longitude (NAD 83)	122 °20' 11.5" W	122 °21' 33.0" W
Ground Elevation (m/ft-AMSL)	23.77 / 78.0	2.44 / 8.0
Antenna Structure Registration #		
Path Azimuth (°)	209.699	29.685
Path Length (km / miles)	4.018 / 2.496	

Transmit Antenna

70709A
Manufacturer ANDREW CORPORATION
Model VHLP800-11C
Gain(dBi) / Beamwidth(°) / Tilt(°) 37.4 / 2.10 / -0.44
Centerline (m / ft – AGL) 31.39 / 103.0

70709A

ANDREW CORPORATION
VHLP800-11C
37.4 / 2.10 / 0.41
22.86 / 75.0

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

TEMU52
Manufacturer Alcatel-Lucent USA, Inc.
Model 95MPR11-H32F30-114
Model Description 9500 MPR Indoor Fixed Modulation
Emission Designator / Modulation 30M0D7W 32 QAM
Loading 1 CH DIG 114200.000
Stability (%) 0.001
Nominal Coordinated Maximum
Power (dBm) 30.0
Received Level (dBm) -22.7
EIRP (dBm) 66.4
Fixed Loss: Tx / Common (dB) 0.0 / 1.0
Free Space Loss (dB) 125.5

TEMU52

Alcatel-Lucent USA, Inc.
95MPR11-H32F30-114
9500 MPR Indoor Fixed Modulation
30M0D7W 32 QAM
1 CH DIG 114200.000
0.001
Nominal Coordinated Maximum
30.0
-22.7
66.4
0.0 / 1.0

Transmit Frequencies (MHz) 10915.0000V(6)

11405.0000V(6)

Administrative Information

City/County Sunol/Alameda
Status / License Basis Engineering Proposal / PRIMARY OPERATION
Call Sign WLV608
Licensee Code 5165A1
Licensee Name New Cingular Wireless PCS LLC – N C
Radio Service / Station Class CF -- Point-to-Point Microwave, Common Carrier

WEST SUNOL CA

Fremont/Alameda
Engineering Proposal / PRIMARY OPERATION
WLV226
5165A1
New Cingular Wireless PCS LLC – N C
FXO -- Fixed

Site Information

Latitude (NAD 83)	37 °37' 12.8" N	37 °32' 54.2" N
Longitude (NAD 83)	121 °55' 20.3" W	121 °55' 3.8" W
Ground Elevation (m/ft-AMSL)	662.00 / 2171.9	166.12 / 545.0
Antenna Structure Registration #	1015267	
Path Azimuth (°)	177.092	357.095
Path Length (km / miles)	7.983 / 4.960	

Transmit Antenna

77043A
Manufacturer ANDREW CORPORATION
Model VHLP4-11B
Gain(dBi) / Beamwidth(°) / Tilt(°) 40.4 / 1.50 / -3.67
Centerline (m / ft – AGL) 15.24 / 50.0

77043A
ANDREW CORPORATION
VHLP4-11B
40.4 / 1.50 / 3.61
3.05 / 10.0

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

TEMU52
Manufacturer Alcatel-Lucent USA, Inc.
Model 95MPR11-H32F30-114
Model Description 9500 MPR Indoor Fixed Modulation
Emission Designator / Modulation 30M0D7W 32 QAM
Loading 1 CH DIG 114200.000
Stability (%) 0.001
Nominal Coordinated Maximum
Power (dBm) 30.0
Received Level (dBm) -22.7
EIRP (dBm) 67.4
Fixed Loss: Tx / Common (dB) 2.0 / 1.0
Free Space Loss (dB) 131.5

TEMU52
Alcatel-Lucent USA, Inc.
95MPR11-H32F30-114
9500 MPR Indoor Fixed Modulation
30M0D7W 32 QAM
1 CH DIG 114200.000
0.001
Nominal Coordinated Maximum
30.0
-24.7
69.4
0.0 / 1.0

Transmit Frequencies (MHz) 10795.0000H(3)

11285.0000H(3)

Administrative Information

City/County /Contra Costa
Status / License Basis Engineering Proposal / PRIMARY OPERATION
Call Sign WLM384
Licensee Code 5165A1
Licensee Name New Cingular Wireless PCS LLC - N C
Radio Service / Station Class CF -- Point-to-Point Microwave, Common Carrier

OAKLAND COLI CA

Oakland/Alameda
Engineering Proposal / PRIMARY OPERATION
WPUI510
5165A1
New Cingular Wireless PCS LLC - N C
FXO -- Fixed

Site Information

Latitude (NAD 83) 37 °51' 0.4" N
Longitude (NAD 83) 122 °11' 33.6" W
Ground Elevation (m/ft-AMSL) 535.84 / 1758.0
Antenna Structure Registration # 1010560
Path Azimuth (°) 185.533
Path Length (km / miles) 10.714 / 6.658

37 °45' 14.5" N
122 °12' 15.8" W
2.00 / 6.6
1256692
5.526

Transmit Antenna

Manufacturer 77043A
Model ANDREW CORPORATION
Gain(dBi) / Beamwidth(°) / Tilt(°) VHLP4-11B
Centerline (m / ft - AGL) 40.4 / 1.50 / -2.97
24.38 / 80.0

77043A
ANDREW CORPORATION
VHLP4-11B
40.4 / 1.50 / 2.90
9.14 / 30.0

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

Manufacturer TEMU52
Model Alcatel-Lucent USA, Inc.
Model Description 95MPR11-H32F30-114
Emission Designator / Modulation 9500 MPR Indoor Fixed Modulation
Loading 30M0D7W 32 QAM
Stability (%) 1 CH DIG 114200.000
0.001
Nominal Coordinated Maximum
Power (dBm) 30.0
Received Level (dBm) -25.7
EIRP (dBm) 69.2
Fixed Loss: Tx / Common (dB) 0.0 / 1.2
Free Space Loss (dB) 134.1

TEMU52
Alcatel-Lucent USA, Inc.
95MPR11-H32F30-114
9500 MPR Indoor Fixed Modulation
30M0D7W 32 QAM
1 CH DIG 114200.000
0.001
Nominal Coordinated Maximum
30.0
-25.7
69.2
0.0 / 1.2

Transmit Frequencies (MHz) 11525.0000V(9)

11035.0000V(9)

Administrative Information

City/County /Contra Costa
Status / License Basis Engineering Proposal / PRIMARY OPERATION
Call Sign WLM384
Licensee Code 5165A1
Licensee Name New Cingular Wireless PCS LLC - N C
Radio Service / Station Class CF -- Point-to-Point Microwave, Common Carrier

BAY BRIDGE CA

Oakland/Alameda
Engineering Proposal / PRIMARY OPERATION
WMJ466
5165A1
New Cingular Wireless PCS LLC - N C
FXO -- Fixed

Site Information

Latitude (NAD 83)	37 °51' 0.4" N	37 °49' 17.9" N
Longitude (NAD 83)	122 °11' 33.6" W	122 °19' 24.3" W
Ground Elevation (m/ft-AMSL)	535.84 / 1758.0	2.74 / 9.0
Antenna Structure Registration #	1010560	
Path Azimuth (°)	254.687	74.606
Path Length (km / miles)	11.936 / 7.416	

Transmit Antenna

Manufacturer 77043A
Model ANDREW CORPORATION
Gain(dBi) / Beamwidth(°) / Tilt(°) VHLP4-11B
Centerline (m / ft - AGL) 40.4 / 1.50 / -2.67
24.38 / 80.0

77043A

ANDREW CORPORATION
VHLP4-11B
40.4 / 1.50 / 2.59
9.14 / 30.0

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

Manufacturer TEMU52
Model Alcatel-Lucent USA, Inc.
Model Description 95MPR11-H32F30-114
Emission Designator / Modulation 9500 MPR Indoor Fixed Modulation
Loading 30M0D7W 32 QAM
Stability (%) 1 CH DIG 114200.000
0.001
Nominal Coordinated Maximum
Power (dBm) 30.0
Received Level (dBm) -32.9
EIRP (dBm) 65.3
Fixed Loss: Tx / Common (dB) 0.0 / 5.1
Free Space Loss (dB) 135.0

TEMU52

Alcatel-Lucent USA, Inc.
95MPR11-H32F30-114
9500 MPR Indoor Fixed Modulation
30M0D7W 32 QAM
1 CH DIG 114200.000
0.001
Nominal Coordinated Maximum
30.0
-32.9
66.8
0.0 / 3.6

Transmit Frequencies (MHz) 10915.0000V(6)

11405.0000V(6)

Administrative Information

MARTINEZ CA
City/County: Crockett/Contra Costa
Status / License Basis: Engineering Proposal / PRIMARY OPERATION
Call Sign: WMS908
Licensee Code: 5165A1
Licensee Name: New Cingular Wireless PCS LLC – N C
Radio Service / Station Class: CF -- Point-to-Point Microwave, Common Carrier

TV HILL CA

Bay Point/Contra Costa
Engineering Proposal / PRIMARY OPERATION
WLM382
5165A1
New Cingular Wireless PCS LLC – N C
FXO -- Fixed

Site Information

Latitude (NAD 83)	38 °1' 43.1" N	38 °1' 48.5" N
Longitude (NAD 83)	122 °11' 52.9" W	122 °0' 8.0" W
Ground Elevation (m/ft-AMSL)	273.41 / 897.0	184.10 / 604.0
Antenna Structure Registration #		1051047
Path Azimuth (°)	89.385	269.505
Path Length (km / miles)		17.192 / 10.683

Transmit Antenna

75058G
Manufacturer: GABRIEL ELECTRONICS
Model: UCC6-107CSE RF
Gain(dBi) / Beamwidth(°) / Tilt(°): 43.8 / 1.00 / -0.36
Centerline (m / ft – AGL): 3.66 / 12.0

75058G
Manufacturer: GABRIEL ELECTRONICS
Model: UCC6-107CSE RF
Gain(dBi) / Beamwidth(°) / Tilt(°): 43.8 / 1.00 / 0.24
Centerline (m / ft – AGL): 3.05 / 10.0

Receive Antenna

Same As Transmit

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

Diversity Receive Antenna

G04070
Manufacturer: GABRIEL ELECTRONICS
Model: UCC4-107 RF
Gain (dBi) / Beamwidth (°): 40.4 / 1.80
Centerline (m / ft – AGL): 1.22 / 4.0

G04070
Manufacturer: GABRIEL ELECTRONICS
Model: UCC4-107 RF
Gain (dBi) / Beamwidth (°): 40.4 / 1.80
Centerline (m / ft – AGL): 1.22 / 4.0

Radio Information

TEMU28
Manufacturer: Alcatel-Lucent USA, Inc.
Model: 95MPR11-H256F30-183
Model Description: 9500 MPR Indoor Fixed Modulation
Emission Designator / Modulation: 30M0D7W 256 QAM
Loading: 1 CH DIG 183300.000
Stability (%): 0.001
Nominal Coordinated Maximum
Power (dBm): 26.0
Received Level (dBm): -30.2
EIRP (dBm): 66.3
Fixed Loss: Tx / Common (dB): 0.0 / 3.5
Free Space Loss (dB): 138.2

TEMU28
Manufacturer: Alcatel-Lucent USA, Inc.
Model: 95MPR11-H256F30-183
Model Description: 9500 MPR Indoor Fixed Modulation
Emission Designator / Modulation: 30M0D7W 256 QAM
Loading: 1 CH DIG 183300.000
Stability (%): 0.001
Nominal Coordinated Maximum
Power (dBm): 26.0
Received Level (dBm): -30.2
EIRP (dBm): 67.7
Fixed Loss: Tx / Common (dB): 0.0 / 2.1

Transmit Frequencies (MHz) 10995.0000H(8)

11485.0000H(8)

Administrative Information

SANTA CLARA CA
City/County Santa Clara/Santa Clara
Status / License Basis Engineering Proposal / PRIMARY OPERATION
Call Sign WMJ484
Licensee Code 5165A1
Licensee Name New Cingular Wireless PCS LLC – N C
Radio Service / Station Class CF -- Point-to-Point Microwave, Common Carrier

WEST VALLEY CA

Saratoga/Santa Clara
Engineering Proposal / PRIMARY OPERATION
WPOR624
5165A1
New Cingular Wireless PCS LLC – N C
FXO -- Fixed

Site Information

Latitude (NAD 83)	37 °22' 1.4" N	37 °15' 55.1" N
Longitude (NAD 83)	121 °57' 10.2" W	122 °0' 27.3" W
Ground Elevation (m/ft-AMSL)	13.41 / 44.0	105.16 / 345.0
Antenna Structure Registration #	1015128	
Path Azimuth (°)	203.273	23.240
Path Length (km / miles)	12.291 / 7.637	

Transmit Antenna

Manufacturer	77045A	77045A
Model	ANDREW CORPORATION	ANDREW CORPORATION
Gain(dBi) / Beamwidth(°) / Tilt(°)	VHLP6-11	VHLP6-11
Centerline (m / ft – AGL)	43.8 / 1.10 / 0.37	43.8 / 1.10 / -0.45
	27.43 / 90.0	24.38 / 80.0

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

Manufacturer	TEMU52	TEMU52
Model	Alcatel-Lucent USA, Inc.	Alcatel-Lucent USA, Inc.
Model Description	95MPR11-H32F30-114	95MPR11-H32F30-114
Emission Designator / Modulation	9500 MPR Indoor Fixed Modulation	9500 MPR Indoor Fixed Modulation
Loading	30M0D7W 32 QAM	30M0D7W 32 QAM
Stability (%)	1 CH DIG 114200.000	1 CH DIG 114200.000
	0.001	0.001
	Nominal Coordinated Maximum	Nominal Coordinated Maximum
Power (dBm)	30.0	30.0
Received Level (dBm)	-28.5	-28.5
EIRP (dBm)	68.2	68.5
Fixed Loss: Tx / Common (dB)	0.0 / 5.6	0.0 / 5.3
Free Space Loss (dB)		135.2

Transmit Frequencies (MHz) 11115.0000V(11)

11605.0000V(11)

Administrative Information

City/County San Francisco/San Francisco
Status / License Basis Engineering Proposal / PRIMARY OPERATION
Call Sign WQBN799
Licensee Code 5165A1
Licensee Name New Cingular Wireless PCS LLC – N C
Radio Service / Station Class CF -- Point-to-Point Microwave, Common Carrier

SAN BRUNO CA

/San Mateo
Engineering Proposal / PRIMARY OPERATION
WLN568
5165A1
New Cingular Wireless PCS LLC – N C
FXO -- Fixed

Site Information

Latitude (NAD 83)	37 ° 42' 52.8" N	37 ° 41' 16.6" N
Longitude (NAD 83)	122 ° 23' 54.7" W	122 ° 26' 11.1" W
Ground Elevation (m/ft-AMSL)	48.46 / 159.0	374.30 / 1228.0
Antenna Structure Registration #		1010565
Path Azimuth (°)	228.418	48.395
Path Length (km / miles)	4.468 / 2.776	

Transmit Antenna

Manufacturer	77083A	77083A
Model	ANDREW CORPORATION	ANDREW CORPORATION
Gain(dBi) / Beamwidth(°) / Tilt(°)	VHLP2-11A	VHLP2-11A
Centerline (m / ft – AGL)	34.4 / 3.30 / 4.08	34.4 / 3.30 / -4.11
	10.67 / 35.0	4.57 / 15.0

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

Manufacturer	TEMU52	TEMU52
Model	Alcatel-Lucent USA, Inc.	Alcatel-Lucent USA, Inc.
Model Description	95MPR11-H32F30-114	95MPR11-H32F30-114
Emission Designator / Modulation	9500 MPR Indoor Fixed Modulation	9500 MPR Indoor Fixed Modulation
Loading	30M0D7W 32 QAM	30M0D7W 32 QAM
Stability (%)	1 CH DIG 114200.000	1 CH DIG 114200.000
	0.001	0.001
	Nominal Coordinated Maximum	Nominal Coordinated Maximum
Power (dBm)	30.0	30.0
Received Level (dBm)	-34.1	-34.1
EIRP (dBm)	60.9	61.5
Fixed Loss: Tx / Common (dB)	0.0 / 3.5	0.0 / 2.9
Free Space Loss (dB)		126.5

Transmit Frequencies (MHz)

10955.0000V(7) 11445.0000V(7)

Administrative Information

City/County San Jose/Santa Clara
Status / License Basis Engineering Proposal / PRIMARY OPERATION
Call Sign WPRW945
Licensee Code 5165A1
Licensee Name New Cingular Wireless PCS LLC - N C
Radio Service / Station Class CF -- Point-to-Point Microwave, Common Carrier

LOS GATOS CA

Campbell/Santa Clara
Engineering Proposal / PRIMARY OPERATION
WPRU853
5165A1
New Cingular Wireless PCS LLC - N C
FXO -- Fixed

Site Information

Latitude (NAD 83)	37 °14' 22.6" N	37 °17' 16.1" N
Longitude (NAD 83)	121 °56' 20.9" W	121 °56' 6.8" W
Ground Elevation (m/ft-AMSL)	89.92 / 295.0	57.61 / 189.0
Antenna Structure Registration #		
Path Azimuth (°)	3.715	183.718
Path Length (km / miles)	5.360 / 3.331	

Transmit Antenna

AB1025
Manufacturer MARK ANTENNA
Model HP-170D24
Gain(dBi) / Beamwidth(°) / Tilt(°) 38.9 / 2.00 / -0.33
Centerline (m / ft - AGL) 39.93 / 131.0

77152A
ANDREW CORPORATION
VHLP3-18
43.5 / 1.10 / 0.30
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

TEM63
Manufacturer Alcatel-Lucent USA, Inc.
Model 95MPR18-O32F30-114
Model Description 9500 MPR Outdoor Fixed Modulation HP
Emission Designator / Modulation 30M0D7W 32 QAM
Loading 1 CH DIG 114000.000
Stability (%) 0.001
Nominal Coordinated Maximum
Power (dBm) 19.0
Received Level (dBm) -45.2
EIRP (dBm) 45.9
Fixed Loss: Tx / Common (dB) 0.0 / 12.0
Free Space Loss (dB) 132.5

TEM63
Alcatel-Lucent USA, Inc.
95MPR18-O32F30-114
9500 MPR Outdoor Fixed Modulation HP
30M0D7W 32 QAM
1 CH DIG 114000.000
0.001
Nominal Coordinated Maximum
19.0
-45.2
60.4
0.0 / 2.1

Transmit Frequencies (MHz) 19615.0000V(11)

18055.0000V(11)

Administrative Information

City/County San Mateo/San Mateo
Status / License Basis Engineering Proposal / PRIMARY OPERATION
Call Sign WPNG846
Licensee Code 5165A1
Licensee Name New Cingular Wireless PCS LLC – N C
Radio Service / Station Class CF -- Point-to-Point Microwave, Common Carrier

101 POPLAR CA

San Mateo/San Mateo
Engineering Proposal / PRIMARY OPERATION
WPQY339
5165A1
New Cingular Wireless PCS LLC – N C
FXO -- Fixed

Site Information

Latitude (NAD 83)	37 °33' 22.4" N	37 °34' 56.0" N
Longitude (NAD 83)	122 °17' 16.6" W	122 °19' 17.4" W
Ground Elevation (m/ft-AMSL)	2.44 / 8.0	0.30 / 1.0
Antenna Structure Registration #		
Path Azimuth (°)	314.239	134.219
Path Length (km / miles)	4.137 / 2.571	

Transmit Antenna

AB1025
Manufacturer MARK ANTENNA
Model HP-170D24
Gain(dBi) / Beamwidth(°) / Tilt(°) 38.9 / 2.00 / -0.26
Centerline (m / ft – AGL) 41.15 / 135.0

AB1025

MARK ANTENNA
HP-170D24
38.9 / 2.00 / 0.23
25.60 / 84.0

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

TEMT63
Manufacturer Alcatel-Lucent USA, Inc.
Model 95MPR18-O32F30-114
Model Description 9500 MPR Outdoor Fixed Modulation HP
Emission Designator / Modulation 30M0D7W 32 QAM
Loading 1 CH DIG 114000.000
Stability (%) 0.001
Nominal Coordinated Maximum
Power (dBm) 17.0
Received Level (dBm) -45.2
EIRP (dBm) 51.0
Fixed Loss: Tx / Common (dB) 0.0 / 4.9
Free Space Loss (dB) 130.2

TEMT63

Alcatel-Lucent USA, Inc.
95MPR18-O32F30-114
9500 MPR Outdoor Fixed Modulation HP
30M0D7W 32 QAM
1 CH DIG 114000.000
0.001
Nominal Coordinated Maximum
17.0
-45.2
51.0
0.0 / 4.9

Transmit Frequencies (MHz) 19375.0000V(3)17815.0000V(3)

Administrative Information

City/County
Status / License Basis
Call Sign
Licensee Code
Licensee Name
Radio Service / Station Class

MARTINEZ CA
Crockett/Contra Costa
Engineering Proposal / PRIMARY OPERATION
WLU721
5165A1
New Cingular Wireless PCS LLC – N C
CF -- Point-to-Point Microwave, Common Carrier

HIGHWAY 4 CA

/Contra Costa
Engineering Proposal / PRIMARY OPERATION
WQGT283
5165A1
New Cingular Wireless PCS LLC – N C
FXO -- Fixed

Site Information

Latitude (NAD 83)	38 °1' 43.1" N	38 °0' 8.8" N
Longitude (NAD 83)	122 °11' 52.9" W	122 °9' 46.4" W
Ground Elevation (m/ft–AMSL)	273.41 / 897.0	220.37 / 723.0
Antenna Structure Registration #		
Path Azimuth (°)	133.286	313.308
Path Length (km / miles)	4.240 / 2.634	

Transmit Antenna

Manufacturer	AB1025	AB1025
Model	MARK ANTENNA	MARK ANTENNA
Gain(dBi) / Beamwidth(°) / Tilt(°)	HP–170D24	HP–170D24
Centerline (m / ft – AGL)	38.9 / 2.00 / –0.84	38.9 / 2.00 / 0.81
	10.67 / 35.0	2.44 / 8.0

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

Manufacturer	TEMT63	TEMT63
Model	Alcatel–Lucent USA, Inc.	Alcatel–Lucent USA, Inc.
Model Description	95MPR18–O32F30–114	95MPR18–O32F30–114
Emission Designator / Modulation	9500 MPR Outdoor Fixed Modulation HP	9500 MPR Outdoor Fixed Modulation HP
Loading	30M0D7W 32 QAM	30M0D7W 32 QAM
Stability (%)	1 CH DIG 114000.000	1 CH DIG 114000.000
	0.001	0.001
	Nominal Coordinated Maximum	Nominal Coordinated Maximum
Power (dBm)	17.0	17.0
Received Level (dBm)	–45.5	–45.5
EIRP (dBm)	51.0	51.0
Fixed Loss: Tx / Common (dB)	0.0 / 4.9	0.0 / 4.9
Free Space Loss (dB)		130.5

Transmit Frequencies (MHz) 17755.0000H(1)

19315.0000H(1)

Administrative Information**SUNNYVALE CA**

City/County Sunnyvale/Santa Clara
Status / License Basis Engineering Proposal / PRIMARY OPERATION
Call Sign WLV599
Licensee Code 5165A1
Licensee Name New Cingular Wireless PCS LLC – N C
Radio Service / Station Class CF -- Point-to-Point Microwave, Common Carrier

SANTA CLARA CA

Santa Clara/Santa Clara
Engineering Proposal / PRIMARY OPERATION
WMJ484
5165A1
New Cingular Wireless PCS LLC – N C
FXO -- Fixed

Site Information

Latitude (NAD 83)	37 °22' 41.6" N	37 °22' 1.4" N
Longitude (NAD 83)	122 °0' 33.3" W	121 °57' 10.2" W
Ground Elevation (m/ft-AMSL)	16.46 / 54.0	13.41 / 44.0
Antenna Structure Registration #		1015128
Path Azimuth (°)	103.912	283.946
Path Length (km / miles)	5.149 / 3.199	

Transmit Antenna

80061A
ANDREW CORPORATION
VHLP4-18A
44.7 / 0.90 / -0.06
25.30 / 83.0

80063A
ANDREW CORPORATION
VHLP6-18A
47.8 / 0.70 / 0.03
24.38 / 80.0

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

TEMT63
Alcatel-Lucent USA, Inc.
95MPR18-O32F30-114
9500 MPR Outdoor Fixed Modulation HP
30M0D7W 32 QAM
1 CH DIG 114000.000
0.001
Nominal Coordinated Maximum
17.0
-40.7
52.6
0.0 / 9.1
132.1

TEMT63
Alcatel-Lucent USA, Inc.
95MPR18-O32F30-114
9500 MPR Outdoor Fixed Modulation HP
30M0D7W 32 QAM
1 CH DIG 114000.000
0.001
Nominal Coordinated Maximum
17.0
-40.7
55.8
0.0 / 9.0

Transmit Frequencies (MHz) 17755.0000V(1)

19315.0000V(1)

Administrative Information

City/County
Status / License Basis
Call Sign
Licensee Code
Licensee Name
Radio Service / Station Class

HERCULES CA
Crockett/Contra Costa
Engineering Proposal / PRIMARY OPERATION
WLR263
5165A1
New Cingular Wireless PCS LLC – N C
CF -- Point-to-Point Microwave, Common Carrier

MARTINEZ CA

Crockett/Contra Costa
Engineering Proposal / PRIMARY OPERATION
WLU721
5165A1
New Cingular Wireless PCS LLC – N C
FXO -- Fixed

Site Information

Latitude (NAD 83)	38 °2' 42.2" N	38 °1' 43.1" N
Longitude (NAD 83)	122 °13' 56.5" W	122 °11' 52.9" W
Ground Elevation (m/ft-AMSL)	166.12 / 545.0	273.41 / 897.0
Antenna Structure Registration #		
Path Azimuth (°)	121.145	301.166
Path Length (km / miles)	3.522 / 2.189	

Transmit Antenna

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

87204A
ANDREW CORPORATION
VHLP2-18B
38.9 / 2.10 / 1.83
3.96 / 13.0

87204A

ANDREW CORPORATION
VHLP2-18B
38.9 / 2.10 / -1.85
9.75 / 32.0

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

Manufacturer
Model
Model Description
Emission Designator / Modulation
Loading
Stability (%)

TEMT63
Alcatel-Lucent USA, Inc.
95MPR18-O32F30-114
9500 MPR Outdoor Fixed Modulation HP
30M0D7W 32 QAM
1 CH DIG 114000.000
0.001

	Nominal	Coordinated	Maximum
Power (dBm)		<u>17.0</u>	
Received Level (dBm)		<u>-44.4</u>	
EIRP (dBm)		<u>51.3</u>	
Fixed Loss: Tx / Common (dB)	0.0 / <u>4.6</u>		
Free Space Loss (dB)			128.8

TEMT63

Alcatel-Lucent USA, Inc.
95MPR18-O32F30-114
9500 MPR Outdoor Fixed Modulation HP
30M0D7W 32 QAM
1 CH DIG 114000.000
0.001

	Nominal	Coordinated	Maximum
Power (dBm)		<u>17.0</u>	
Received Level (dBm)		<u>-44.4</u>	
EIRP (dBm)		<u>50.1</u>	
Fixed Loss: Tx / Common (dB)	0.0 / <u>5.8</u>		

Transmit Frequencies (MHz) 19585.0000V(10)

18025.0000V(10)

Administrative Information

City/County San Ramon/Contra Costa
Status / License Basis Engineering Proposal / PRIMARY OPERATION
Call Sign WLM612
Licensee Code 5165A1
Licensee Name New Cingular Wireless PCS LLC – N C
Radio Service / Station Class CF -- Point-to-Point Microwave, Common Carrier

ALAMO EL PIN CA

Danville/Contra Costa
Engineering Proposal / PRIMARY OPERATION
5165A1
New Cingular Wireless PCS LLC – N C
FXO -- Fixed

Site Information

Latitude (NAD 83)	37 °46' 49.3" N	37 °50' 23.6" N
Longitude (NAD 83)	121 °58' 15.2" W	122 °0' 47.4 " W
Ground Elevation (m/ft-AMSL)	143.26 / 470.0	161.24 / 529.0
Antenna Structure Registration #		
Path Azimuth (°)	<u>330.613</u>	<u>150.587</u>
Path Length (km / miles)		<u>7.584</u> / <u>4.712</u>

Transmit Antenna

Manufacturer 80061A
Model ANDREW CORPORATION
Model VHLP4-18A
Gain(dBi) / Beamwidth(°) / Tilt(°) 44.7 / 0.90 / 0.00
Centerline (m / ft – AGL) 19.51 / 64.0

80061A

ANDREW CORPORATION
VHLP4-18A
44.7 / 0.90 / -0.06
5.49 / 18.0

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

Manufacturer TEMT63
Model Alcatel-Lucent USA, Inc.
Model 95MPR18-O32F30-114
Model Description 9500 MPR Outdoor Fixed Modulation HP
Emission Designator / Modulation 30M0D7W 32 QAM
Loading 1 CH DIG 114000.000
Stability (%) 0.001
Nominal Coordinated Maximum
Power (dBm) 17.0
Received Level (dBm) -39.5
EIRP (dBm) 57.1
Fixed Loss: Tx / Common (dB) 0.0 / 4.6
Free Space Loss (dB) 135.5

TEMT63

Alcatel-Lucent USA, Inc.
95MPR18-O32F30-114
9500 MPR Outdoor Fixed Modulation HP
30M0D7W 32 QAM
1 CH DIG 114000.000
0.001
Nominal Coordinated Maximum
17.0
-39.5
55.9
0.0 / 5.8

Transmit Frequencies (MHz) 19345.0000H(2)

17785.0000H(2)

Administrative Information

City/County
Status / License Basis
Call Sign
Licensee Code
Licensee Name
Radio Service / Station Class

BLACKHAWK CA
Danville/Contra Costa
Engineering Proposal / PRIMARY OPERATION
WLV216
5165A1
New Cingular Wireless PCS LLC – N C
CF -- Point-to-Point Microwave, Common Carrier

DANVILLE CA

Danville/Contra Costa
Engineering Proposal / PRIMARY OPERATION
WQHE238
5165A1
New Cingular Wireless PCS LLC – N C
FXO -- Fixed

Site Information

Latitude (NAD 83)	37 °47' 22.7" N	37 °48' 11.2" N
Longitude (NAD 83)	121 °54' 18.5" W	121 °57' 26.8" W
Ground Elevation (m/ft-AMSL)	292.30 / 959.0	272.80 / 895.0
Antenna Structure Registration #		
Path Azimuth (°)	287.999	107.967
Path Length (km / miles)	4.843 / 3.010	

Transmit Antenna

Manufacturer	87066A ANDREW CORPORATION	87066A ANDREW CORPORATION
Model	VHLP2.5-23A	VHLP2.5-23A
Gain(dBi) / Beamwidth(°) / Tilt(°)	43.0 / 1.20 / -0.21	43.0 / 1.20 / 0.18
Centerline (m / ft – AGL)	3.05 / 10.0	6.10 / 20.0

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

Manufacturer	TENC44	TENC44
Model	Alcatel-Lucent USA, Inc.	Alcatel-Lucent USA, Inc.
Model Description	95MPR23-O32F30-114	95MPR23-O32F30-114
Emission Designator / Modulation	9500 MPR Outdoor Fixed Modulation	9500 MPR Outdoor Fixed Modulation
Loading	30M0D7W 32 QAM	30M0D7W 32 QAM
Stability (%)	1 CH DIG 114000.000	1 CH DIG 114000.000
	0.001	0.001
	Nominal Coordinated Maximum	Nominal Coordinated Maximum
Power (dBm)	17.0	17.0
Received Level (dBm)	-41.8	-41.8
EIRP (dBm)	54.6	53.7
Fixed Loss: Tx / Common (dB)	0.0 / 5.4	0.0 / 6.3
Free Space Loss (dB)		133.1

Transmit Frequencies (MHz) 23035.0000H(1)

21835.0000H(1)

Administrative Information	SUNOL CA	SUNOL GRADE CA
City/County	Sunol/Alameda	Sunol/Alameda
Status / License Basis	Engineering Proposal / PRIMARY OPERATION	Engineering Proposal / PRIMARY OPERATION
Call Sign	WLV608	WLV609
Licensee Code	5165A1	5165A1
Licensee Name	New Cingular Wireless PCS LLC – N C	New Cingular Wireless PCS LLC – N C
Radio Service / Station Class	CF -- Point-to-Point Microwave, Common Carrier	FXO -- Fixed

Site Information

Latitude (NAD 83)	37 °37' 12.8" N	37 °35' 37.9" N
Longitude (NAD 83)	121 °55' 20.3" W	121 °52' 36.3" W
Ground Elevation (m/ft-AMSL)	<u>662.00</u> / <u>2171.9</u>	140.82 / 462.0
Antenna Structure Registration #	<u>1015267</u>	
Path Azimuth (°)	126.017	306.044
Path Length (km / miles)	4.974 / 3.091	

Transmit Antenna

Manufacturer	<u>87066A</u> <u>ANDREW CORPORATION</u>	<u>87066A</u> <u>ANDREW CORPORATION</u>
Model	<u>VHLP2.5-23A</u>	<u>VHLP2.5-23A</u>
Gain(dBi) / Beamwidth(°) / Tilt(°)	<u>43.0</u> / <u>1.20</u> / -5.99	<u>43.0</u> / <u>1.20</u> / 5.96
Centerline (m / ft – AGL)	3.05 / 10.0	<u>3.66</u> / <u>12.0</u>

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

Manufacturer	<u>TENC44</u> <u>Alcatel-Lucent USA, Inc.</u>	<u>TENC44</u> <u>Alcatel-Lucent USA, Inc.</u>
Model	<u>95MPR23-O32F30-114</u>	<u>95MPR23-O32F30-114</u>
Model Description	<u>9500 MPR Outdoor Fixed Modulation</u>	<u>9500 MPR Outdoor Fixed Modulation</u>
Emission Designator / Modulation	<u>30M0D7W</u> <u>32 QAM</u>	<u>30M0D7W</u> <u>32 QAM</u>
Loading	<u>1 CH DIG 114000.000</u>	<u>1 CH DIG 114000.000</u>
Stability (%)	<u>0.001</u>	<u>0.001</u>
	Nominal Coordinated Maximum	Nominal Coordinated Maximum
Power (dBm)	<u>17.0</u>	<u>17.0</u>
Received Level (dBm)	<u>-37.5</u>	<u>-37.5</u>
EIRP (dBm)	<u>54.4</u>	<u>54.4</u>
Fixed Loss: Tx / Common (dB)	<u>4.0</u> / <u>1.6</u>	<u>4.0</u> / <u>1.6</u>
Free Space Loss (dB)		133.3

Transmit Frequencies (MHz)	<u>23035.0000V(1)</u>	<u>21835.0000V(1)</u>
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Administrative Information	SAN JOSE AIR CA	SC UNIV CA
City/County	Santa Clara/Santa Clara	Santa Clara/Santa Clara
Status / License Basis	Engineering Proposal / PRIMARY OPERATION	Engineering Proposal / PRIMARY OPERATION
Call Sign	WMJ484	WPSJ596
Licensee Code	5165A1	5165A1
Licensee Name	New Cingular Wireless PCS LLC - N C	New Cingular Wireless PCS LLC - N C
Radio Service / Station Class	CF -- Point-to-Point Microwave, Common Carrier	FXO -- Fixed

Site Information		
Latitude (NAD 83)	37 °22' 1.4" N	37 °21' 22.0" N
Longitude (NAD 83)	121 °57' 10.2" W	121 °56' 28.8" W
Ground Elevation (m/ft-AMSL)	13.41 / 44.0	17.68 / 58.0
Antenna Structure Registration #	1015128	1224200
Path Azimuth (°)	140.009	320.016
Path Length (km / miles)	1.585 / 0.985	

Transmit Antenna	RD1150	RD1150
Manufacturer	RADIO WAVES, INC	RADIO WAVES, INC
Model	HP2-23	HP2-23
Gain(dBi) / Beamwidth(°) / Tilt(°)	40.2 / 1.70 / -0.15	40.2 / 1.70 / 0.14
Centerline (m / ft - AGL)	21.34 / 70.0	13.10 / 43.0

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	TENC44	TENC44
Manufacturer	Alcatel-Lucent USA, Inc.	Alcatel-Lucent USA, Inc.
Model	95MPR23-O32F30-114	95MPR23-O32F30-114
Model Description	9500 MPR Outdoor Fixed Modulation	9500 MPR Outdoor Fixed Modulation
Emission Designator / Modulation	30M0D7W 32 QAM	30M0D7W 32 QAM
Loading	1 CH DIG 114000.000	1 CH DIG 114000.000
Stability (%)	0.001	0.001
	Nominal Coordinated Maximum	Nominal Coordinated Maximum
Power (dBm)	17.0	17.0
Received Level (dBm)	-46.2	-46.2
EIRP (dBm)	46.7	47.5
Fixed Loss: Tx / Common (dB)	0.0 / 10.5	0.0 / 9.7
Free Space Loss (dB)		123.4

Transmit Frequencies (MHz)	22085.0000V(6)	23285.0000V(6)
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