

Microwave Path Data Sheet

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COMSEARCH

19700 Janelia Farm Boulevard, Ashburn, VA, 20147

(571)246-3097 www.comsearch.com

PCN Date: 07/18/2012

Job Number 120718COMSFB02

Prev Job Num: 010904TI01

RCN Number: 12071801

Administrative Information

ABQBEARCNYN NM
City/County Albuquerque/BERNALILLO
Status / License Basis Engineering Proposal / PRIMARY OPERATION
Call Sign WLS520
Licensee Code COCONI
Licensee Name Verizon Wireless(VAW) LLC-AZ/CO/NM/
Radio Service / Station Class CF -- Point-to-Point Microwave, Common Carrier

NM3-CERRO NM

/VALENCIA
Engineering Proposal / PRIMARY OPERATION
WPTP455
NMRSA3
New Mexico RSA #3 Limited Partnersh
FXO -- Fixed

Site Information

Latitude (NAD 83)	35 ° 8' 6.2" N	34 ° 47' 51.4 " N
Longitude (NAD 83)	106 ° 32' 5.1" W	106 ° 49' 12.5 " W
Ground Elevation (m/ft-AMSL)	1694.70 / 5560.0	1657.73 / 5438.7
Antenna Structure Registration #		<u>1005473</u>
Path Azimuth (°)	<u>214.928</u>	<u>34.764</u>
Path Length (km / miles)		<u>45.615</u> / <u>28.344</u>

Transmit Antenna

A64302	1666KA
Manufacturer Commscope	Commscope
Model HDX8-59 R MAIN	UHX10-59K RF
Gain(dBi) / Beamwidth(°) / Tilt(°) 41.5 / 1.40 / -0.16	43.2 / 1.10 / -0.15
Centerline (m / ft - AGL) 18.90 / 62.0	49.99 / 164.0

Receive Antenna

Same As Transmit

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

Diversity Receive Antenna

A64303	1653JA
Manufacturer Commscope	Commscope
Model HDX8-59 R DIV	UHX8-59J RF
Gain (dBi) / Beamwidth (°) 41.5 / 1.40	41.3 / 1.40
Centerline (m / ft - AGL) 18.90 / 62.0	27.13 / 89.0

Radio Information

TEMX95	TEMX95
Manufacturer Alcatel-Lucent USA, Inc.	Alcatel-Lucent USA, Inc.
Model MDR-8606-135	MDR-8606-135
Model Description MDR-8000	MDR-8000
Emission Designator / Modulation 30M0D7W 64 QAM	30M0D7W 64 QAM
Loading 2016CH DIG 138800.000	2016CH DIG 138800.000
Stability (%) 0.001	0.001
Nominal Coordinated Maximum	Nominal Coordinated Maximum
Power (dBm) 29.0	29.0
Received Level (dBm) -32.8	-32.8
EIRP (dBm) 68.5	69.2
Fixed Loss: Tx / Common (dB) 0.0 / 2.0	0.0 / 3.0
Free Space Loss (dB) <u>141.5</u>	

Transmit Frequencies (MHz) 5974.8500V(12T)

6226.8900V(22T)

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19700 Janelia Farm Boulevard, Ashburn, VA, 20147
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PCN Date: 07/18/2012
Job Number 120718COMSFB02

Prev Job Num: 070223COMSAN01
RCN Number: 12071801

Administrative Information	NM3-CERRO NM	ABQBEARCNYN NM
City/County	/VALENCIA	Albuquerque/BERNALILLO
Status / License Basis	Engineering Proposal / PRIMARY OPERATION	Engineering Proposal / PRIMARY OPERATION
Call Sign	WPTP455	WLS520
Licensee Code	NMRSA3	COCONI
Licensee Name	New Mexico RSA #3 Limited Partnersh	Verizon Wireless(VAW) LLC-AZ/CO/NM/
Radio Service / Station Class	CF -- Point-to-Point Microwave, Common Carrier	FXO -- Fixed

Site Information

Latitude (NAD 83)	34 ° 47' <u>51.4</u> " N	35 ° 8' 6.2" N
Longitude (NAD 83)	106 ° 49' <u>12.5</u> " W	106 ° 32' 5.1" W
Ground Elevation (m/ft-AMSL)	1657.73 / 5438.7	1694.70 / 5560.0
Antenna Structure Registration #	<u>1005473</u>	
Path Azimuth (°)	<u>34.764</u>	<u>214.928</u>
Path Length (km / miles)	<u>45.615</u> / <u>28.344</u>	

Transmit Antenna

Manufacturer	1666KA	A64302
Model	Commscope	Commscope
Gain(dBi) / Beamwidth(°) / Tilt(°)	UHX10-59K RF	HDX8-59 R MAIN
Centerline (m / ft - AGL)	43.2 / 1.10 / -0.15	41.5 / 1.40 / -0.16
	49.99 / 164.0	18.90 / 62.0

Receive Antenna

Same As Transmit

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

Diversity Receive Antenna

Manufacturer	1653JA	A64303
Model	Commscope	Commscope
Gain (dBi) / Beamwidth (°)	UHX8-59J RF	HDX8-59 R DIV
Centerline (m / ft - AGL)	41.3 / 1.40	41.5 / 1.40
	27.13 / 89.0	18.90 / 62.0

Radio Information

Manufacturer	TEMX95	TEMX95
Model	Alcatel-Lucent USA, Inc.	Alcatel-Lucent USA, Inc.
Model Description	MDR-8606-135	MDR-8606-135
Emission Designator / Modulation	MDR-8000	MDR-8000
Loading	30M0D7W 64 QAM	30M0D7W 64 QAM
Stability (%)	2016CH DIG 138800.000	2016CH DIG 138800.000
	0.001	0.001
	Nominal Coordinated Maximum	Nominal Coordinated Maximum
Power (dBm)	29.0	29.0
Received Level (dBm)	-32.8	-32.8
EIRP (dBm)	69.2	68.5
Fixed Loss: Tx / Common (dB)	0.0 / 3.0	0.0 / 2.0
Free Space Loss (dB)		<u>141.5</u>

Transmit Frequencies (MHz) 6286.1900V(24T) 6034.1500V(14T)