

Microwave Path Data Sheet

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COMSEARCH

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PCN Date: 06/07/2011

Job Number: 101206COMSSL01

Administrative Information	CA-SFO0998B CA	CA-SFO0365A CA
City/County	Fremont/Alameda	Newark/Alameda
Status / License Basis	Engineering Proposal / PRIMARY OPERATION	Engineering Proposal / PRIMARY OPERATION
Call Sign	WQND410	WQMM669
Licensee Code	CLESP3	CLESP3
Licensee Name	Clearwire Spectrum Holdings III, LL	Clearwire Spectrum Holdings III, LL
Radio Service / Station Class	MG -- Microwave Industrial/Business Pool	FXO -- Fixed

Site Information

Latitude (NAD 83)	37 °33' 6.2" N	37 °32' 12.1" N
Longitude (NAD 83)	122 °0' 20.4" W	122 °0' 55.1" W
Ground Elevation (m/ft-AMSL)	15.70 / 51.5	11.50 / 37.7
Antenna Structure Registration #		
Path Azimuth (°)	207.057	27.051
Path Length (km / miles)	1.873 / 1.164	

Transmit Antenna

Manufacturer	80014A	80014A
Model	ANDREW CORPORATION	ANDREW CORPORATION
Gain(dBi) / Beamwidth(°) / Tilt(°)	VHLP1-23A	VHLP1-23A
Centerline (m / ft - AGL)	35.3 / 3.00 / -0.13	35.3 / 3.00 / 0.12
	45.72 / 150.0	45.72 / 150.0

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	TEMR36	TEMR36
Model	DRAGONWAVE INC	DRAGONWAVE INC
Model Description	23HD50HFC364V02	23HD50HFC364V02
Emission Designator / Modulation	HORIZON DUO	HORIZON DUO
Loading	47M1D7W 256 QAM	47M1D7W 256 QAM
Stability (%)	1 CH DIG 364000.000	1 CH DIG 364000.000
	0.001	0.001
	Nominal Coordinated Maximum	Nominal Coordinated Maximum
Power (dBm)	15.5	15.5
Received Level (dBm)	-38.7	-38.7
EIRP (dBm)	50.8	50.8
Fixed Loss: Tx / Common (dB)	0.0 / 0.0	0.0 / 0.0
Free Space Loss (dB)		124.8

Transmit Frequencies (MHz)	23375.0000V(8)	23475.0000V(10)	22175.0000V(8)	22275.0000V(10)
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