

Microwave Path Data Sheet

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COMSEARCH

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PCN Date: 05/06/2011

Job Number: 110506COMSSL03

New Path

RCN Number: 11050607

Administrative Information

CA-SFO0338A CA
City/County Fremont/Alameda
Status / License Basis Engineering Proposal / PRIMARY OPERATION
Call Sign WQND385
Licensee Code CLESP3
Licensee Name Clearwire Spectrum Holdings III, LL
Radio Service / Station Class MG -- Microwave Industrial/Business Pool

CA-SFO0365A CA

Newark/Alameda
Status / License Basis Engineering Proposal / PRIMARY OPERATION
Call Sign WQMM669
Licensee Code CLESP3
Licensee Name Clearwire Spectrum Holdings III, LL
Radio Service / Station Class FXO -- Fixed

Site Information

Latitude (NAD 83)	37 °34' 16.6" N	37 °32' 12.1" N
Longitude (NAD 83)	122 °1' 49.3" W	122 °0' 55.1" W
Ground Elevation (m/ft-AMSL)	11.60 / 38.1	11.50 / 37.7
Antenna Structure Registration #		
Path Azimuth (°)	160.880	340.889
Path Length (km / miles)	4.062 / 2.524	

Transmit Antenna

87205A	80014A
Manufacturer ANDREW CORPORATION	ANDREW CORPORATION
Model VHLP2-23B	VHLP1-23A
Gain(dBi) / Beamwidth(°) / Tilt(°) 40.5 / 1.70 / 0.11	35.3 / 3.00 / -0.14
Centerline (m / ft - AGL) 19.20 / 63.0	28.04 / 92.0

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

TEMQ54	TEMQ54
Manufacturer DRAGONWAVE INC	DRAGONWAVE INC
Model 23HD50HFC215V02	23HD50HFC215V02
Model Description HORIZON DUO	HORIZON DUO
Emission Designator / Modulation 45M8D7W 64 QAM	45M8D7W 64 QAM
Loading 1 CH DIG 215000.000	1 CH DIG 215000.000
Stability (%) 0.001	0.001
Nominal Coordinated Maximum	Nominal Coordinated Maximum
Power (dBm) 18.5	18.5
Received Level (dBm) -37.2	-37.2
EIRP (dBm) 59.0	53.8
Fixed Loss: Tx / Common (dB) 0.0 / 0.0	0.0 / 0.0
Free Space Loss (dB) 131.5	

Transmit Frequencies (MHz)	23425.0000H(9)	23525.0000H(11)	22225.0000H(9)	22325.0000H(11)
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