

Microwave Path Data Sheet

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COMSEARCH

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PCN Date: 01/14/2011

Job Number: 110114COMSSL04

New Path

RCN Number: 11011416

Administrative Information

CA-SFO0067D CA
City/County Concord/Contra Costa
Status / License Basis Engineering Proposal / PRIMARY OPERATION
Call Sign WQLX851
Licensee Code CLESP3
Licensee Name Clearwire Spectrum Holdings III, LL
Radio Service / Station Class MG -- Microwave Industrial/Business Pool

CA-SFO0073A CA

Walnut Creek/Contra Costa
Engineering Proposal / PRIMARY OPERATION
CLESP3
Clearwire Spectrum Holdings III, LL
FXO -- Fixed

Site Information

Latitude (NAD 83)	37 °56' 6.3" N	37 °55' 20.5" N
Longitude (NAD 83)	122 °1' 47.3" W	122 °0' 59.8" W
Ground Elevation (m/ft-AMSL)	26.50 / 86.9	43.20 / 141.7
Antenna Structure Registration #		
Path Azimuth (°)	140.593	320.602
Path Length (km / miles)	1.827 / 1.136	

Transmit Antenna

87204A	87204A
Manufacturer ANDREW CORPORATION	ANDREW CORPORATION
Model VHLP2-18B	VHLP2-18B
Gain(dBi) / Beamwidth(°) / Tilt(°) 38.9 / 2.10 / 0.95	38.9 / 2.10 / -0.96
Centerline (m / ft - AGL) 20.57 / 67.5	34.44 / 113.0

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

TEM017	TEM017
Manufacturer DRAGONWAVE INC	DRAGONWAVE INC
Model 18HD50SFC371V02	18HD50SFC371V02
Model Description HORIZON DUO	HORIZON DUO
Emission Designator / Modulation 49M2D7W 256 QAM	49M2D7W 256 QAM
Loading 1 CH DIG 371000.000	1 CH DIG 371000.000
Stability (%) 0.001	0.001
Nominal Coordinated Maximum	Nominal Coordinated Maximum
Power (dBm) 5.5	5.5
Received Level (dBm) -39.8	-39.8
EIRP (dBm) 44.4	44.4
Fixed Loss: Tx / Common (dB) 0.0 / 0.0	0.0 / 0.0
Free Space Loss (dB) 123.1	

Transmit Frequencies (MHz)	19575.0000H(6)	19675.0000H(8)	18015.0000H(6)	18115.0000H(8)
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