

Microwave Path Data Sheet

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COMSEARCH

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PCN Date: 11/18/2010

Job Number: 101118COMSSL04

New Path

RCN Number: 10111808

Administrative Information

CA-STK024D CA
City/County Manteca/San Joaquin
Status / License Basis Engineering Proposal / PRIMARY OPERATION
Call Sign
Licensee Code CLESP2
Licensee Name Clearwire Spectrum Holdings II, LLC
Radio Service / Station Class MG -- Microwave Industrial/Business Pool

CA-STK060D CA

/San Joaquin
Engineering Proposal / PRIMARY OPERATION
WQIM878
CLESP2
Clearwire Spectrum Holdings II, LLC
FXO -- Fixed

Site Information

Latitude (NAD 83)	37 ° 47' 53.4" N	37 ° 48' 0.0" N
Longitude (NAD 83)	121 ° 13' 59.8" W	121 ° 10' 20.0" W
Ground Elevation (m/ft-AMSL)	9.60 / 31.5	14.00 / 45.9
Antenna Structure Registration #		1015149
Path Azimuth (°)	87.814	267.852
Path Length (km / miles)		5.381 / 3.344

Transmit Antenna

87204A	87204A
Manufacturer ANDREW CORPORATION	ANDREW CORPORATION
Model VHLP2-18B	VHLP2-18B
Gain(dBi) / Beamwidth(°) / Tilt(°) 38.9 / 2.10 / 0.22	38.9 / 2.10 / -0.26
Centerline (m / ft - AGL) 33.53 / 110.0	51.82 / 170.0

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

TENE16	TENE16
Manufacturer DRAGONWAVE INC	DRAGONWAVE INC
Model 18QS50HFC271V03	18QS50HFC271V03
Model Description HORIZON QUANTUM	HORIZON QUANTUM
Emission Designator / Modulation 47M8D7W 128 QAM	47M8D7W 128 QAM
Loading 1 CH DIG 271000.000	1 CH DIG 271000.000
Stability (%) 0.001	0.001
	Nominal Coordinated Maximum
Power (dBm) 21.0	21.0
Received Level (dBm) -33.7	-33.7
EIRP (dBm) 59.9	59.9
Fixed Loss: Tx / Common (dB) 0.0 / 0.0	0.0 / 0.0
Free Space Loss (dB)	132.5

Transmit Frequencies (MHz) 18065.0000V(7)

19625.0000V(7)