

Microwave Path Data Sheet
COMSEARCH

Page 1 of 1

19700 Janelia Farm Boulevard, Ashburn, VA, 20147
(858)232-4372 www.comsearch.com

PCN Date: 04/28/2011
Job Number: 110428COMSSL02

Prev Job Num: 110420COMSSL05
RCN Number: 11042817

Administrative Information

CA-SFO0314A CA
City/County Union City/Alameda
Status / License Basis Engineering Proposal / PRIMARY OPERATION
Call Sign WQLY322
Licensee Code CLESP3
Licensee Name Clearwire Spectrum Holdings III, LL
Radio Service / Station Class MG -- Microwave Industrial/Business Pool

CA-SFO0320B CA

City/County Union City/Alameda
Status / License Basis Engineering Proposal / PRIMARY OPERATION
Call Sign WQLY759
Licensee Code CLESP3
Licensee Name Clearwire Spectrum Holdings III, LL
Radio Service / Station Class FXO -- Fixed

Site Information

Latitude (NAD 83)	37 °36' 28.6" N	37 °35' 54.1" N
Longitude (NAD 83)	122 °2' 24.2" W	122 °4' 3.0" W
Ground Elevation (m/ft-AMSL)	15.30 / 50.2	5.20 / 17.1
Antenna Structure Registration #		
Path Azimuth (°)	246.312	66.295
Path Length (km / miles)	2.647 / 1.645	

Transmit Antenna

Manufacturer	<u>80014A</u>	<u>87205A</u>
Model	ANDREW CORPORATION	ANDREW CORPORATION
Gain(dBi) / Beamwidth(°) / Tilt(°)	<u>VHLP1-23A</u>	<u>VHLP2-23B</u>
Centerline (m / ft - AGL)	35.3 / 3.00 / -0.60	40.5 / 1.70 / 0.59
	32.61 / 107.0	15.24 / 50.0

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)	-37.5	-37.5
EIRP (dBm)	<u>50.3</u>	<u>55.5</u>
Fixed Loss: Tx / Common (dB)	0.0 / 0.5	0.0 / 0.5
Free Space Loss (dB)		127.8

Transmit Frequencies (MHz)	21825.0000V(1)	21975.0000V(4)	23025.0000V(1)	23175.0000V(4)
-----------------------------------	----------------	----------------	----------------	----------------
