

Microwave Path Data Sheet

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COMSEARCH

19700 Janelia Farm Boulevard, Ashburn, VA, 20147

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PCN Date: 02/02/2011

Prev Job Num: 101021COMSSL04

Job Number: 110202COMSSL02

RCN Number: 11020205

Administrative Information**CA-SFO0004D CA****CA-SFO1016D CA**

City/County

Hayward/Alameda

Hayward/Alameda

Status / License Basis

Engineering Proposal / PRIMARY OPERATION

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Call Sign

WQLX848

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 °39' 19.3" N

37 °37' 55.8 " N

Longitude (NAD 83)

122 °3' 25.5" W

122 °4' 2.0 " W

Ground Elevation (m/ft-AMSL)

153.60 / 503.9

6.70 / 22.0

Antenna Structure Registration #

Path Azimuth (°)

199.17019.164

Path Length (km / miles)

2.725 / 1.693**Transmit Antenna**

80014A

80014A

Manufacturer

ANDREW CORPORATION

ANDREW CORPORATION

Model

VHLP1-23A

VHLP1-23A

Gain(dBi) / Beamwidth(°) / Tilt(°)

35.3 / 3.00 / -4.0735.3 / 3.00 / 4.05

Centerline (m / ft - AGL)

58.22 / 191.0

11.58 / 38.0

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

TEMR36

TEMR36

Manufacturer

DRAGONWAVE INC

DRAGONWAVE INC

Model

23HD50HFC364V02

23HD50HFC364V02

Model Description

HORIZON DUO

HORIZON DUO

Emission Designator / Modulation

47M1D7W 256 QAM

47M1D7W 256 QAM

Loading

1 CH DIG 364000.000

1 CH DIG 364000.000

Stability (%)

0.001

0.001

Nominal Coordinated Maximum

Nominal Coordinated Maximum

Power (dBm)

16.5

16.5

Received Level (dBm)

-41.0-41.0

EIRP (dBm)

51.8

51.8

Fixed Loss: Tx / Common (dB)

0.0 / 0.0

0.0 / 0.0

Free Space Loss (dB)

128.1**Transmit Frequencies (MHz)**

23075.0000H(2)

23225.0000H(5)

21875.0000H(2)

22025.0000H(5)