

Microwave Path Data Sheet

Page 1 of 2

COMSEARCH

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

PCN Date: 01/26/2011

Job Number: 110126COMSSL07

New Path

RCN Number: 11012612

Administrative Information

CA-SFO0915B CA
City/County San Mateo/San Mateo
Status / License Basis Engineering Proposal / PRIMARY OPERATION
Call Sign
Licensee Code CLESP3
Licensee Name Clearwire Spectrum Holdings III, LL
Radio Service / Station Class MG -- Microwave Industrial/Business Pool

CA-SFO1018A CA

San Mateo/San Mateo
Engineering Proposal / PRIMARY OPERATION
CLESP3
Clearwire Spectrum Holdings III, LL
FXO -- Fixed

Site Information

Latitude (NAD 83)	37 °33' 33.1" N	37 °33' 24.3" N
Longitude (NAD 83)	122 °17' 12.6" W	122 °16' 48.3" W
Ground Elevation (m/ft-AMSL)	2.00 / 6.6	2.00 / 6.6
Antenna Structure Registration #		
Path Azimuth (°)	114.459	294.463
Path Length (km / miles)	0.655 / 0.407	

Transmit Antenna

99141R	99141R
MANUFACTURER RADIO WAVES, INC	RADIO WAVES, INC
MODEL HPCPE-23	HPCPE-23
GAIN(dBi) / Beamwidth(°) / Tilt(°) 34.4 / 2.90 / -0.19	34.4 / 2.90 / 0.18
CENTERLINE (m / ft - AGL) 24.38 / 80.0	22.25 / 73.0

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

TEMU13	TEMU13
DRAGONWAVE INC	DRAGONWAVE INC
23HS50SFC322V01	23HS50SFC322V01
HORIZON DUO	HORIZON DUO
EMISSION DESIGNATOR / MODULATION 45M8D7W 256 QAM	45M8D7W 256 QAM
LOADING 1 CH DIG 322000.000	1 CH DIG 322000.000
STABILITY (%) 0.001	0.001
Nominal Coordinated Maximum	Nominal Coordinated Maximum
Power (dBm) 11.5	11.5
Received Level (dBm) -35.4	-35.4
EIRP (dBm) 45.9	45.9
Fixed Loss: Tx / Common (dB) 0.0 / 0.0	0.0 / 0.0
Free Space Loss (dB) 115.7	

Transmit Frequencies (MHz) 23175.0000V(4)

21975.0000V(4)

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Page 2 of 2

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PCN Date: 01/26/2011

Job Number 110126COMSSL07

New Path

RCN Number: 11012612

Administrative Information

CA-SFO5000 CA
City/County Burlingame/San Mateo
Status / License Basis Engineering Proposal / PRIMARY OPERATION
Call Sign
Licensee Code CLESP3
Licensee Name Clearwire Spectrum Holdings III, LL
Radio Service / Station Class MG -- Microwave Industrial/Business Pool

CA-SFO0326C CA

Burlingame/San Mateo
Engineering Proposal / PRIMARY OPERATION
WQLZ449
CLESP3
Clearwire Spectrum Holdings III, LL
FXO -- Fixed

Site Information

Latitude (NAD 83)	37 °36' 2.4" N	37 °35' 37.9" N
Longitude (NAD 83)	122 °22' 42.1" W	122 °21' 54.9" W
Ground Elevation (m/ft-AMSL)	4.95 / 16.2	2.40 / 7.9
Antenna Structure Registration #		
Path Azimuth (°)	123.115	303.123
Path Length (km / miles)	1.382 / 0.859	

Transmit Antenna

99141R	99141R
MANUFACTURER RADIO WAVES, INC	RADIO WAVES, INC
MODEL HPCPE-23	HPCPE-23
GAIN(dBi) / Beamwidth(°) / Tilt(°) 34.4 / 2.90 / 1.33	34.4 / 2.90 / -1.34
CENTERLINE (m / ft - AGL) 12.19 / 40.0	46.94 / 154.0

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

TEMU07	TEMU07
MANUFACTURER DRAGONWAVE INC	DRAGONWAVE INC
MODEL 23HS50HFC364V01	23HS50HFC364V01
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
Power (dBm)	Nominal Coordinated Maximum
Received Level (dBm)	16.0
EIRP (dBm)	-37.4
	50.4
Fixed Loss: Tx / Common (dB)	0.0 / 0.0
Free Space Loss (dB)	122.2

Transmit Frequencies (MHz) 23225.0000V(5)

22025.0000V(5)