

Microwave Path Data Sheet

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COMSEARCH

19700 Janelia Farm Boulevard, Ashburn, VA, 20147
(703)726-5500 www.comsearch.com

PCN Date: 11/04/2010

Job Number: 101104COMSKS02

New Path

RCN Number: 10110413

Administrative Information

CAE LOS BANO CA
City/County Los Banos/Merced
Status / License Basis Engineering Proposal / PRIMARY OPERATION
Call Sign WQLV773
Licensee Code CONTER
Licensee Name Conterra Ultra Broadband, LLC
Radio Service / Station Class CF -- Point-to-Point Microwave, Common Carrier

DOS PALOS HS CA

Dos Palos/Merced
Engineering Proposal / PRIMARY OPERATION
WQIH538
CONTER
Conterra Ultra Broadband, LLC
FXO -- Fixed

Site Information

Latitude (NAD 83)	37 ° 4' 1.8" N	36 ° 59' 1.6" N
Longitude (NAD 83)	120 ° 51' 41.4" W	120 ° 37' 20.4" W
Ground Elevation (m/ft-AMSL)	35.00 / 114.8	35.05 / 115.0
Antenna Structure Registration #	1276593	
Path Azimuth (°)	113.430	293.574
Path Length (km / miles)		23.207 / 14.420

Transmit Antenna

70709A	77043A
ANDREW CORPORATION	ANDREW CORPORATION
VHLP800-11C	VHLP4-11B
Gain(dBi) / Beamwidth(°) / Tilt(°) 37.4 / 2.10 / -0.09	40.4 / 1.50 / -0.07
Centerline (m / ft - AGL) 30.48 / 100.0	27.43 / 90.0

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

TENA67	TENA67
NEC AMERICA	NEC AMERICA
TRP-11G-7B	TRP-11G-7B
NLITE N SPLIT ARCHITECTURE HP	NLITE N SPLIT ARCHITECTURE HP
Emission Designator / Modulation 30M0D7W 128 QAM	30M0D7W 128 QAM
Loading 1 CH DIG 171136.000	1 CH DIG 171136.000
Stability (%) 0.0006	0.0006
Nominal Coordinated Maximum	Nominal Coordinated Maximum
Power (dBm) 26.0	26.0
Received Level (dBm) -38.4	-38.4
EIRP (dBm) 62.7	65.7
Fixed Loss: Tx / Common (dB) 0.0 / 0.7	0.0 / 0.7
Free Space Loss (dB)	140.8

Transmit Frequencies (MHz) 10715.0000V(1)

11215.0000V(1)

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City/County
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Call Sign
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Radio Service / Station Class

DOS PALOS HS CA

Dos Palos/Merced
Engineering Proposal / PRIMARY OPERATION
WQIH538
CONTER
Conterra Ultra Broadband, LLC
CF -- Point-to-Point Microwave, Common Carrier

HS DOS PALOS CA

South Dos Palos/Merced
Engineering Proposal / PRIMARY OPERATION
WQLV787
CONTER
Conterra Ultra Broadband, LLC
FXO -- Fixed

Site Information

Latitude (NAD 83)
Longitude (NAD 83)
Ground Elevation (m/ft-AMSL)
Antenna Structure Registration #
Path Azimuth (°)
Path Length (km / miles)

36 °59' 1.6" N
120 °37' 20.4" W
35.05 / 115.0
243.246
2.177 / 1.353

36 °58' 29.8" N
120 °38' 39.0" W
35.00 / 114.8
63.232

Transmit Antenna

Manufacturer
Model
Gain(dBi) / Beamwidth(°) / Tilt(°)
Centerline (m / ft - AGL)

80014A
ANDREW CORPORATION
VHLP1-23A
35.3 / 3.00 / -0.49
28.96 / 95.0

80014A
ANDREW CORPORATION
VHLP1-23A
35.3 / 3.00 / 0.48
10.67 / 35.0

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
Model
Model Description
Emission Designator / Modulation
Loading
Stability (%)
Power (dBm)
Received Level (dBm)
EIRP (dBm)
Fixed Loss: Tx / Common (dB)
Free Space Loss (dB)

TEMN05
NEC AMERICA
TRP-23G-1B
NLITE E 155 MB 128 QAM NP
30M0D7W 128 QAM
2016CH DIG 155000.000
0.0006
Nominal Coordinated Maximum
19.0
-38.5
53.3
0.0 / 1.0
126.1

TEMN05
NEC AMERICA
TRP-23G-1B
NLITE E 155 MB 128 QAM NP
30M0D7W 128 QAM
2016CH DIG 155000.000
0.0006
Nominal Coordinated Maximum
19.0
-38.5
53.3
0.0 / 1.0

Transmit Frequencies (MHz)

22085.0000V(6)

23285.0000V(6)