

Microwave Path Data Sheet

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COMSEARCH19700 Janelia Farm Boulevard, Ashburn, VA, 20147
(703)726-5655 www.comsearch.com

PCN Date: 03/22/2011

Job Number: 110322COMSAN01

Prev Job Num: 110221COMSAN02

RCN Number: 11032204

Administrative Information**CAPITOL & MA CA**City/County San Jose/Santa Clara
Status / License Basis Engineering Proposal / PRIMARY OPERATION
Call Sign
Licensee Code P7469
Licensee Name Sacramento Valley Limited Partnersh
Radio Service / Station Class CF -- Point-to-Point Microwave, Common Carrier**SAN JOSE EAS CA**City/County San Jose/Santa Clara
Status / License Basis Engineering Proposal / PRIMARY OPERATION
Call Sign
Licensee Code P7469
Licensee Name Sacramento Valley Limited Partnersh
Radio Service / Station Class FXO -- Fixed**Site Information**Latitude (NAD 83) 37 °22' 31.9" N 37 °21' 45.8" N
Longitude (NAD 83) 121 °51' 15.5" W 121 °50' 56.8" W
Ground Elevation (m/ft-AMSL) 39.62 / 130.0 30.48 / 100.0
Antenna Structure Registration # 1274319
Path Azimuth (°) 162.059 342.062
Path Length (km / miles) 1.494 / 0.928**Transmit Antenna**97217A 97217A
Manufacturer ANDREW CORPORATION ANDREW CORPORATION
Model VHLPX2-23B VHLPX2-23B
Gain(dBi) / Beamwidth(°) / Tilt(°) 40.5 / 1.70 / -0.64 40.5 / 1.70 / 0.63
Centerline (m / ft - AGL) 30.48 / 100.0 23.16 / 76.0**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****TEMK23**Manufacturer Aviat Networks, Inc.
Model EH23-100DS1-128QAM30
Model Description ECLIPSE ODU 300 HP
Emission Designator / Modulation 30M0D7W 128 QAM
Loading 2016CH DIG 168100.000
Stability (%) 0.001
Nominal Coordinated Maximum
Power (dBm) 15.5
Received Level (dBm) -40.3
EIRP (dBm) 46.0
Fixed Loss: Tx / Common (dB) 0.0 / 10.0
Free Space Loss (dB) 122.8**TEMK23**Manufacturer Aviat Networks, Inc.
Model EH23-100DS1-128QAM30
Model Description ECLIPSE ODU 300 HP
Emission Designator / Modulation 30M0D7W 128 QAM
Loading 2016CH DIG 168100.000
Stability (%) 0.001
Nominal Coordinated Maximum
Power (dBm) 15.5
Received Level (dBm) -40.3
EIRP (dBm) 52.0
Fixed Loss: Tx / Common (dB) 0.0 / 4.0**Transmit Frequencies (MHz)** 21835.0000V(1)23035.0000V(1)

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COMSEARCH

19700 Janelia Farm Boulevard, Ashburn, VA, 20147
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PCN Date: 03/22/2011
Job Number 110322COMSAN01

Prev Job Num: 100826COMSDS04
RCN Number: 11032204

Administrative Information	CARPENTER RD CA	HACKETT RD CA
City/County	/Stanislaus	/Stanislaus
Status / License Basis	Engineering Proposal / PRIMARY OPERATION	Engineering Proposal / PRIMARY OPERATION
Call Sign		
Licensee Code	P4165	P4165
Licensee Name	GTE Mobilnet of California LTD Part	GTE Mobilnet of California LTD Part
Radio Service / Station Class	CF -- Point-to-Point Microwave, Common Carrier	FXO -- Fixed

Site Information

Latitude (NAD 83)	37 °33' <u>9.8</u> " N	37 °35' 50.0" N
Longitude (NAD 83)	121 °1' 49.8" W	120 °59' 28.6" W
Ground Elevation (m/ft-AMSL)	19.51 / 64.0	26.21 / 86.0
Antenna Structure Registration #		
Path Azimuth (°)	<u>35.038</u>	<u>215.062</u>
Path Length (km / miles)		<u>6.033</u> / <u>3.749</u>

Transmit Antenna	70710A	70710A
Manufacturer	ANDREW CORPORATION	ANDREW CORPORATION
Model	VHLPX2-11A	VHLPX2-11A
Gain(dBi) / Beamwidth(°) / Tilt(°)	34.4 / 3.30 / 0.02	34.4 / 3.30 / -0.06
Centerline (m / ft - AGL)	22.25 / 73.0	19.81 / 65.0

Receive Antenna

Manufacturer	Same As Transmit
Model	
Gain (dBi) / Beamwidth (°)	
Centerline (m / ft - AGL)	

Diversity Receive Antenna

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

Radio Information	TEMU27	TEMU27
Manufacturer	Alcatel-Lucent USA, Inc.	Alcatel-Lucent USA, Inc.
Model	95MPR11-H128F30-160	95MPR11-H128F30-160
Model Description	9500 MPR Indoor Fixed Modulation	9500 MPR Indoor Fixed Modulation
Emission Designator / Modulation	30M0D7W 128 QAM	30M0D7W 128 QAM
Loading	1 CH DIG 160170.000	1 CH DIG 160170.000
Stability (%)	0.001	0.001
	Nominal Coordinated Maximum	Nominal Coordinated Maximum
Power (dBm)	29.0	29.0
Received Level (dBm)	<u>-38.4</u>	<u>-38.4</u>
EIRP (dBm)	59.7	60.0
Fixed Loss: Tx / Common (dB)	0.0 / 3.7	0.0 / 3.4
Free Space Loss (dB)		<u>129.1</u>

Transmit Frequencies (MHz)	10755.0000V(2)	11245.0000V(2)
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