

Microwave Path Data Sheet
COMSEARCH

19700 Janelia Farm Boulevard, Ashburn, VA, 20147
(703)726-5810 www.comsearch.com
Job Number: 110330COMSKN02

Date: 03/30/2011

Adaptive Modulation Prior Coordination Notice

One or more paths in this Prior Coordination Notice (PCN) use microwave radios with Adaptive Modulation. These paths can be identified by a numerical superscript notation immediately following the Radio Code on the path data sheet.

The superscript notation can be cross referenced to the corresponding table(s) below to identify the various modulation modes in which the microwave path will operate.

(1) Master Radio Code: X18090 - MOTOROLA

Pages: 1

Radio Code	Model	Model Description	Emission Designator	Modulation	Loading (Mbps)	Stability (%)	Coordinated Power (dBm)
TEMY85	PTP-18800	128QAM 155.1 Mbps	27M2D1D	128 QAM	1 CH DIG 155.1	0.0007	15.0
TENF03	PTP-18800	256QAM 177.4 Mbps	27M2D1D	256 QAM	1 CH DIG 177.4	0.0007	15.0
TENF04	PTP-18800	64QAM 130.4 Mbps	27M2D1D	64 QAM	1 CH DIG 130.4	0.0007	15.0
TENF05	PTP-18800	32QAM 103.6 Mbps	27M2D1D	32 QAM	1 CH DIG 103.6	0.0007	15.0
TENI29	PTP-18800	16QAM 77.9 Mbps	27M2D1D	16 QAM	1 CH DIG 77.9	0.0007	15.0
TENI30	PTP-18800	8PSK 59.1 Mbps	27M2D1D	8 PSK	1 CH DIG 59.1	0.0007	15.0
TENI31	PTP-18800	QPSK 39.4 Mbps	27M2D1D	QPSK	1 CH DIG 39.4	0.0007	15.0

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PCN Date: 03/30/2011

Prev Job Num: 020111DE01

Job Number: 110330COMSKN02

RCN Number: 11033033

Administrative Information

KGO VOLMER CA
City/County /Contra Costa
Status / License Basis Engineering Proposal / PRIMARY OPERATION
Call Sign WPVJ888
Licensee Code ABCTV5
Licensee Name KGO Television, Inc.
Radio Service / Station Class MG -- Microwave Industrial/Business Pool

KGO FRONT ST CA

San Francisco/San Francisco
Engineering Proposal / PRIMARY OPERATION

ABCTV5
KGO Television, Inc.
FXO -- Fixed

Site Information

Latitude (NAD 83)	37 ° 52' <u>56.7</u> " N	37 ° 48' <u>1.8</u> " N
Longitude (NAD 83)	122 ° 13' <u>14.8</u> " W	122 ° 23' <u>57.9</u> " W
Ground Elevation (m/ft-AMSL)	<u>554.74</u> / <u>1820.0</u>	<u>4.57</u> / <u>15.0</u>
Antenna Structure Registration #		
Path Azimuth (°)	<u>240.017</u>	<u>59.907</u>
Path Length (km / miles)		<u>18.164</u> / <u>11.286</u>

Transmit Antenna

Manufacturer	RB2160	<u>RB2160</u>
Model	RADIO WAVES, INC	<u>RADIO WAVES, INC</u>
Gain(dBi) / Beamwidth(°) / Tilt(°)	HP4-18	<u>HP4-18</u>
Centerline (m / ft - AGL)	44.5 / 1.00 / <u>-1.84</u>	<u>44.5</u> / <u>1.00</u> / <u>1.71</u>
	<u>24.38</u> / <u>80.0</u>	<u>11.58</u> / <u>38.0</u>

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	<u>X18090¹</u>	<u>X18090¹</u>
Model	<u>MOTOROLA</u>	<u>MOTOROLA</u>
Model Description	<u>PTP-18800</u>	<u>PTP-18800</u>
Emission Designator / Modulation	<u>ACM 256QAM-QPSK</u>	<u>ACM 256QAM-QPSK</u>
Loading	<u>27M2D1D</u> <u>256 QAM</u>	<u>27M2D1D</u> <u>256 QAM</u>
Stability (%)	<u>1 CH DIG 177400.000</u>	<u>1 CH DIG 177400.000</u>
	<u>0.0007</u>	<u>0.0007</u>
	Nominal Coordinated Maximum	Nominal Coordinated Maximum
Power (dBm)	<u>15.0</u>	<u>15.0</u>
Received Level (dBm)	<u>-41.1</u>	<u>-41.1</u>
EIRP (dBm)	<u>58.5</u>	<u>58.5</u>
Fixed Loss: Tx / Common (dB)	0.0 / 1.0	0.0 / <u>1.0</u>
Free Space Loss (dB)		<u>143.1</u>

Transmit Frequencies (MHz) 17785.0000V(2)

19345.0000V(2)