

Prepared By

**COMSEARCH**

19700 Janelia Farm Boulevard, Ashburn, VA 20147  
(703)726-5500 <http://www.comsearch.com>

Prepared For

**Intelsat License LLC  
FILLMORE, CALIFORNIA**

Temporary Transmit/Receive Earth Station  
Operation Dates: 03/28/2011 - 09/28/2011

Pursuant to Part 25.203(c) of the FCC Rules and Regulations, the satellite earth station proposed in this application was coordinated by Comsearch using computer techniques and in accordance with Part 25 of the FCC Rules and Regulations. Verbal and written coordination was conducted with the below listed carriers on February 4, 2011.

Company

ANAHEIM CITY, COMMUNICATIONS DIVISION  
AT&T California  
AirSites2000, LLC  
American Tower, LLC  
BNSF Railway Company  
Bishop Union High School  
CNG Communications, Inc.  
COAST COMMUNITY COLLEGE DISTRICT  
California, State of  
Cellco Partnership - California  
Chevron USA Inc.  
Coachella Valley Water District  
Cox Communications - San Diego Mkt  
Ducor Telephone Company  
Exxon Communications Company  
FALCON CABLEVISION, A CALIFORNIA L.P.  
Federal Communications Commission  
Fresno MSA Limited Partnership  
Fresno, County of  
GTE Mobilnet of California LTD Partnersh  
GTE Mobilnet of Santa Barbara LTD Ptsh  
KERN COMMUNITY COLLEGE DISTRICT BAKERSFI  
KERN COUNTY SUPERINTENDENT OF SCHOOLS  
KERN ED TELECOM CONSORTIUM  
KTLA INC  
Kern, County of  
Kings County Office of Education  
LB Tower Company LLC  
LOS ANGELES CITY WATER & POWER  
LOS ANGELES UNIFIED SCHOOL DISTRICT

Company (Continued)

Los Angeles City Info Technology Agency  
Los Angeles County Dept of Public Works  
Los Angeles County FCC Licensing Section  
Los Angeles SMSA Ltd. Partnership  
M.U.T. Licensing, LLC  
METROPOLITAN AREA NETWORKS, INC.  
MONTEBELLO CITY CALIFORNIA  
Metropolitan Water Dist of So California  
Microwave Service Company  
NEXTEL OF CALIFORNIA INC  
New Cingular Wireless PCS - Los Angeles  
New Cingular Wireless PCS LLC - N CAL  
New Cingular Wireless PCS LLC -San Diego  
New Cingular Wireless PCS, LLC (was WWC)  
New Visalia Cellular Telephone Co LLC  
Nextweb Inc  
OCCIDENTAL OF ELK HILLS INC  
ORANGE, COUNTY OF, CA  
Pacific Gas and Electric Company  
Paramount Farming Company, LLC.  
Plains Exploration & Production Company  
QUALCOMM INC.  
RIVERSIDE COUNTY OF  
Regional 3Cs  
SAN DIEGO COUNTY  
SAN DIEGO, CITY OF  
SAN LUIS OBISPO COUNTY  
SKYRIVER COMMUNICATIONS INC  
SOUTHERN CALIFORNIA REGIONAL RAIL AUTH.  
San Bernardino County of California  
San Diego Gas & Electric Company  
Santa Barbara Cellular Systems, Ltd.  
Southern California Edison Company  
Southern California Gas Company  
T-Mobile License LLC  
TULARE, COUNTY OF  
TV MICROWAVES CO  
Turn Wireless, LLC  
University of California,HPWREN  
Ventura, County of  
Verizon California Inc.  
Verizon Wireless (VAW) LLC (CA)  
Verizon Wireless VAW LLC (OR, HI)  
Vintage Production California LLC  
WWC License L.L.C.  
Western Pacific Mobile Microwave  
Western Technical Services

There are no unresolved interference objections with the stations contained in these applications.

The following section presents the data pertinent to frequency coordination of the proposed earth station that was circulated to all carriers within its coordination contours.

# COMSEARCH

## Earth Station Data Sheet

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Date: 02/19/2011  
Job Number: 110204COMSJC02

### Administrative Information

Status: TEMPORARY (Operation from 03/28/2011 to 09/28/2011)  
Call Sign: TEMP09  
Licensee Code: PANAS  
Licensee Name: Intelsat License LLC

### Site Information

#### FILLMORE, CALIFORNIA

Venue Name  
Latitude (NAD 83): 34° 24' 22.0" N  
Longitude (NAD 83): 118° 53' 37.4" W  
Climate Zone: A  
Rain Zone: 4  
Ground Elevation (AMSL): 313.94 m / 1030.0 ft

### Link Information

Satellite Type: Low Earth Orbit  
Mode: TR - Transmit-Receive  
Modulation: Digital  
Minimum Elevation Angle: 5.0°  
Azimuth Range: 0.0° to 360°  
Antenna Centerline (AGL): 8.23 m / 27.0 ft

### Antenna Information

Manufacturer  
Model  
Gain / Diameter  
3-dB / 15-dB Beamwidth

#### Receive

Scientific-Atlanta  
10.3 Meter  
50.5 dBi / 10.3 m  
0.40° / 1.00°

#### Transmit

Scientific-Atlanta  
10.3 Meter  
53.8 dBi / 10.3 m  
0.40° / 0.60°

Max Available RF Power (dBW/4 kHz)  
(dBW/MHz)

10.9  
34.9

Maximum EIRP (dBW/4 kHz)  
(dBW/MHz)  
(dBW)

64.7  
88.0  
88.0

Interference Objectives: Long Term -156.0 dBW/MHz 20%  
Short Term -146.0 dBW/MHz 0.01%  
0.0025%

-154.0 dBW/4 kHz 20%  
-131.0 dBW/4 kHz

### Frequency Information

Emission / Frequency Range (MHz)

#### Receive 4.0 GHz

180KFXD / 4186.32  
180KFXD / 4191.84

#### Transmit 6.1 GHz

850KFXD / 6415.0  
850KFXD / 6412.912

Max Great Circle Coordination Distance: 465.6 km / 289.3 mi  
Precipitation Scatter Contour Radius: 350.4 km / 217.7 mi

347.9 km / 216.2 mi  
325.4 km / 202.2 mi

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### Coordination Values

### FILLMORE, CA

Licensee Name	Intelsat License LLC		
Latitude (NAD 83)	34° 24' 22.0" N		
Longitude (NAD 83)	118° 53' 37.4" W		
Ground Elevation (AMSL)	313.94 m / 1030.0 ft		
Antenna Centerline (AGL)	8.23 m / 27.0 ft		
Antenna Model	Scientific-Atlanta 10.3 Meter		
Antenna Mode	Receive 4.0 GHz		Transmit 6.1 GHz
Interference Objectives:	Long Term	-156.0 dBW/MHz    20%	-154.0 dBW/4 kHz    20%
	Short Term	-146.0 dBW/MHz    0.01%	-131.0 dBW/4 kHz    0.0025%
Max Available RF Power			10.9 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 4.0 GHz		Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
0	9.45	76.90	-10.00	373.70	-10.00	256.40
5	9.81	73.28	-10.00	373.70	-10.00	256.40
10	11.84	70.32	-10.00	373.70	-10.00	256.40
15	10.91	66.54	-10.00	373.70	-10.00	256.40
20	12.89	64.07	-10.00	373.70	-10.00	256.40
25	13.83	61.45	-10.00	373.70	-10.00	256.40
30	11.05	56.89	-10.00	373.70	-10.00	256.40
35	11.05	53.97	-10.00	373.70	-10.00	256.40
40	11.16	51.36	-10.00	373.70	-10.00	256.40
45	12.08	49.66	-10.00	373.70	-10.00	256.40
50	12.02	47.53	-10.00	373.70	-10.00	256.40
55	12.02	45.80	-10.00	373.70	-10.00	256.40
60	11.89	44.32	-10.00	373.70	-10.00	256.40
65	10.13	41.66	-10.00	373.70	-10.00	256.40
70	10.13	41.15	-10.00	373.70	-10.00	256.40
75	10.13	41.13	-7.96	386.60	-7.96	269.20
80	8.91	40.41	-4.20	410.40	-4.20	292.90
85	8.91	41.41	0.77	441.80	0.77	324.20
90	6.32	40.56	4.53	456.60	4.53	347.90
95	6.32	42.59	4.53	456.60	4.53	347.90
100	6.32	45.00	4.53	456.60	4.53	347.90
105	6.35	47.76	4.53	456.60	4.53	347.90
110	5.84	50.44	4.53	456.60	4.53	347.90
115	4.00	52.69	4.53	456.60	4.53	347.90
120	2.01	55.33	4.53	456.60	4.53	347.90
125	1.94	59.11	4.53	456.60	4.53	347.90
130	2.44	63.20	4.53	456.60	4.53	347.90
135	2.62	67.23	4.53	456.60	4.53	347.90
140	2.67	71.27	4.53	456.60	4.53	347.90
145	2.87	75.38	4.53	456.60	4.53	347.90
150	2.62	79.46	4.53	456.60	4.53	347.90
155	3.19	83.65	4.53	456.60	4.53	347.90
160	2.85	87.77	4.53	456.60	4.53	347.90
165	3.52	91.91	4.53	456.60	4.53	347.90
170	3.28	96.04	4.53	456.60	4.53	347.90
175	3.00	100.19	4.53	456.60	4.53	347.90
180	2.53	104.38	4.53	456.60	4.53	347.90

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Antenna Model	Scientific-Atlanta 10.3 Meter		
Antenna Mode	Receive 4.0 GHz		
Interference Objectives:	Long Term	-156.0 dBW/MHz	20%
	Short Term	-146.0 dBW/MHz	0.01%
Max Available RF Power	Transmit 6.1 GHz -154.0 dBW/4 kHz 20% -131.0 dBW/4 kHz 0.0025% 10.9 (dBW/4 kHz)		

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 4.0 GHz		Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
185	2.35	108.51	4.53	456.60	4.53	347.90
190	2.28	112.57	4.53	456.60	4.53	347.90
195	0.78	117.05	4.53	456.60	4.53	347.90
200	0.41	121.18	4.53	456.60	4.53	347.90
205	1.23	124.74	4.53	456.60	4.53	347.90
210	0.97	128.61	4.53	456.60	4.53	347.90
215	0.94	132.22	4.53	456.60	4.53	347.90
220	0.00	136.21	4.53	456.60	4.53	347.90
225	0.00	139.42	4.53	456.60	4.53	347.90
230	0.00	142.31	4.53	456.60	4.53	347.90
235	0.00	144.80	4.53	456.60	4.53	347.90
240	0.00	146.79	4.53	456.60	4.53	347.90
245	0.00	148.21	4.53	456.60	4.53	347.90
250	0.00	148.95	4.53	456.60	4.53	347.90
255	0.00	148.97	4.53	456.60	4.53	347.90
260	0.00	148.28	4.53	456.60	4.53	347.90
265	0.00	146.92	4.53	456.60	4.53	347.90
270	0.00	144.96	4.53	465.60	4.53	347.90
275	1.12	141.62	0.77	441.80	0.77	324.20
280	1.30	138.71	-4.20	410.80	-4.20	292.90
285	2.93	134.56	-7.96	386.60	-7.96	269.20
290	4.19	130.57	-10.00	373.70	-10.00	256.40
295	4.04	127.29	-10.00	373.70	-10.00	256.40
300	4.42	123.56	-10.00	373.70	-10.00	256.40
305	3.72	120.18	-10.00	373.70	-10.00	256.40
310	3.09	116.58	-10.00	373.70	-10.00	256.40
315	2.76	112.74	-10.00	373.70	-10.00	256.40
320	3.33	108.58	-10.00	373.70	-10.00	256.40
325	4.75	104.28	-10.00	373.70	-10.00	256.40
330	5.93	100.12	-10.00	373.70	-10.00	256.40
335	7.78	95.99	-10.00	373.70	-10.00	256.40
340	8.25	92.08	-10.00	373.70	-10.00	256.40
345	9.31	88.23	-10.00	373.70	-10.00	256.40
350	9.65	84.45	-10.00	373.70	-10.00	256.40
355	9.64	80.68	-10.00	373.70	-10.00	256.40

## Certification

I hereby certify that I am the technically qualified person responsible for the preparation of the frequency coordination data contained in this report. I am familiar with Parts 101 and 25 of the FCC Rules and Regulations and I have either prepared or reviewed the frequency coordination data submitted with this report, and that it is complete and correct to the best of my knowledge and belief.



Jeffrey E. Cowles  
Engineer III, Telecommunications  
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DATED: February 19, 2011