

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: 09/05/2012 - 11/05/2012

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 July 23, 2012.

Company

ANAHEIM CITY, COMMUNICATIONS DIVISION  
AT&T California  
AirSites2000, LLC  
American Tower, LLC  
BNSF Railway Company  
Bishop Union High School  
CCO SoCal I, LLC  
CNG Communications, Inc.  
COAST COMMUNITY COLLEGE DISTRICT  
California, State of  
Calvary Chapel of Costa Mesa  
Cellco Partnership - California  
Chevron USA Inc.  
Coachella Valley Water District  
DRS Technical Services  
Ducor Telephone Company  
ENTRAVISION HOLDINGS, LLC  
Exxon Communications Company  
Federal Communications Commission  
Fresno MSA Limited Partnership  
Fresno, County of  
GTE Mobilnet of California LTD Partnersh  
GTE Mobilnet of Santa Barbara LTD Ptnsh  
Gila Electronics of Yuma, Inc  
Goff, Wayne C.  
KERN COMMUNITY COLLEGE DISTRICT BAKERSFI  
KERN COUNTY SUPERINTENDENT OF SCHOOLS  
KERN ED TELECOM CONSORTIUM  
KTLA INC  
Kern, County of  
Kings County Office of Education

Company (Continued)

LOS ANGELES CITY WATER & POWER  
 LOS ANGELES UNIFIED SCHOOL DISTRICT  
 Los Angeles City Info Technology Agency  
 Los Angeles County Dept of Public Works  
 Los Angeles County FCC Licensing Section  
 Los Angeles SMSA Ltd. Partnership  
 MHO Networks  
 MOBILE RELAY ASSOCIATES INC  
 MONTEBELLO CITY CALIFORNIA  
 Metropolitan Water Dist of So California  
 New Cingular Wireless PCS - Los Angeles  
 New Cingular Wireless PCS LLC - N CAL  
 New Cingular Wireless PCS LLC -San Diego  
 Nextel of California Inc.  
 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.  
 Regents of the University of California  
 Regional 3Cs  
 Riverside, County of  
 SAN DIEGO, CITY OF  
 SAN LUIS OBISPO COUNTY  
 San Bernardino County of California  
 San Diego County  
 San Diego Gas & Electric Company  
 Santa Barbara Cellular Systems, Ltd.  
 Skyriver Communications  
 Southern California Edison Company  
 Southern California Gas Company  
 Southern California Regional Rail Auth.  
 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)  
 Vintage Production California LLC  
 WWC License L.L.C. - California  
 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: 08/24/2012  
Job Number: 120723COMSJC02

### Administrative Information

Status TEMPORARY (Operation from 09/05/2012 to 11/05/2012)  
Call Sign TEMP11  
Licensee Code INTELS  
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 TO - Transmit-Only  
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 Scientific-Atlanta  
Model 10.3 Meter  
Gain / Diameter 53.8 dBi / 10.3 m  
3-dB / 15-dB Beamwidth 0.40° / 0.60°

### Transmit

Max Available RF Power (dBW/4 kHz) 10.7  
(dBW/MHz) 34.7

Maximum EIRP (dBW/4 kHz) 64.5  
(dBW/MHz) 88.0  
(dBW) 88.0

Interference Objectives: Long Term -154.0 dBW/4 kHz 20%  
Short Term -131.0 dBW/4 kHz 0.0025%

### Frequency Information

Emission / Frequency Range (MHz) **Transmit 6.1 GHz**  
850KFXD / 6415.0  
850KFXD / 6419.32

Max Great Circle Coordination Distance 347.9 km / 216.2 mi  
Precipitation Scatter Contour Radius 322.8 km / 200.5 mi

## COMSEARCH Earth Station Data Sheet

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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		Transmit 6.1 GHz	
Interference Objectives:	Long Term	-154.0 dBW/4 kHz	20%
	Short Term	-131.0 dBW/4 kHz	0.0025%
Max Available RF Power	10.7 (dBW/4 kHz)		

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

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Antenna Model		Scientific-Atlanta 10.3 Meter	
Antenna Mode		Transmit 6.1 GHz	
Interference Objectives: Long Term		-154.0 dBW/4 kHz	20%
	Short Term	-131.0 dBW/4 kHz	0.0025%
Max Available RF Power	10.7 (dBW/4 kHz)		

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
185	2.35	108.51	4.53	347.90
190	2.28	112.57	4.53	347.90
195	0.78	117.05	4.53	347.90
200	0.41	121.18	4.53	347.90
205	1.23	124.74	4.53	347.90
210	0.97	128.61	4.53	347.90
215	0.94	132.22	4.53	347.90
220	0.00	136.21	4.53	347.90
225	0.00	139.42	4.53	347.90
230	0.00	142.31	4.53	347.90
235	0.00	144.80	4.53	347.90
240	0.00	146.79	4.53	347.90
245	0.00	148.21	4.53	347.90
250	0.00	148.95	4.53	347.90
255	0.00	148.97	4.53	347.90
260	0.00	148.28	4.53	347.90
265	0.00	146.92	4.53	347.90
270	0.00	144.96	4.53	347.90
275	1.12	141.62	0.77	324.20
280	1.30	138.71	-4.20	292.90
285	2.93	134.56	-7.96	269.20
290	4.19	130.57	-10.00	256.40
295	4.04	127.29	-10.00	256.40
300	4.42	123.56	-10.00	256.40
305	3.72	120.18	-10.00	256.40
310	3.09	116.58	-10.00	256.40
315	2.76	112.74	-10.00	256.40
320	3.33	108.58	-10.00	256.40
325	4.75	104.28	-10.00	256.40
330	5.93	100.12	-10.00	256.40
335	7.78	95.99	-10.00	256.40
340	8.25	92.08	-10.00	256.40
345	9.31	88.23	-10.00	256.40
350	9.65	84.45	-10.00	256.40
355	9.64	80.68	-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  
COMSEARCH  
19700 Janelia Farm Blvd.  
Ashburn, Va. 20147

DATED: August 24, 2012