

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-Only Earth Station  
Operation Dates: 01/25/2013 - 03/01/2013

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 December 21, 2012.

Company

ABC Holding Company Inc.  
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.  
City Of Los Angeles, Dept Water & Power  
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

Company (Continued)

KERN ED TELECOM CONSORTIUM  
KTLA INC  
Kern, County of  
Kings County Office of Education  
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

Company (Continued)

WWC License L.L.C. - California  
Western Pacific Mobile Microwave  
Western Technical Services  
unWired Broadband, Inc

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: 12/27/2012  
Job Number: 121221COMSJC03

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**Administrative Information**

Status TEMPORARY (Operation from 01/25/2013 to 03/01/2013)  
Call Sign TEMP03  
Licensee Code INTELS  
Licensee Name Intelsat License LLC

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**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

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**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

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**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) 10.9  
(dBW/MHz) 34.9

Maximum EIRP (dBW/4 kHz) 64.7  
(dBW/MHz) 88.7  
(dBW) 88.0

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

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**Frequency Information**

Emission / Frequency Range (MHz) **Transmit 6.1 GHz**  
850KFXD / 5925.5  
850KFXD / 6424.5

Max Great Circle Coordination Distance 347.9 km / 216.2 mi  
Precipitation Scatter Contour Radius 325.4 km / 202.2 mi

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## Earth Station Data Sheet

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<b>Coordination Values</b>	<b>FILLMORE, CA</b>	
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	10.9 (dBW/4 kHz)	

			Transmit 6.1 GHz	
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	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
185	2.35	108.51	4.53	347.90

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## Earth Station Data Sheet

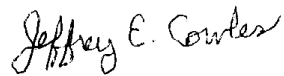
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Antenna Model	Scientific-Atlanta 10.3 Meter
Antenna Mode	Transmit 6.1 GHz
Interference Objectives: Long Term	-154.0 dBW/4 kHz 20%
Short Term	-131.0 dBW/4 kHz 0.0025%
Max Available RF Power	10.9 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
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  
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DATED: December 27, 2012