

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: 05/24/2013 - 10/24/2013

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 February 26, 2013.

Company

ABC Holding Company Inc.  
ANAHEIM CITY, COMMUNICATIONS DIVISION  
AT&T California  
AirSites2000, LLC  
American Tower, LLC  
COAST COMMUNITY COLLEGE DISTRICT  
California, State of  
City Of Los Angeles, Dept Water & Power  
Exxon Communications Company  
Federal Communications Commission  
Fresno MSA Limited Partnership  
GTE Mobilnet of California LTD Partnersh  
GTE Mobilnet of Santa Barbara LTD Ptnsh  
KERN ED TELECOM CONSORTIUM  
KTLA INC  
Kern, County of  
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  
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  
Nextel of California Inc.  
Nextweb Inc  
ORANGE, COUNTY OF, CA  
Plains Exploration & Production Company

Company (Continued)

Regents of the University of California  
Santa Barbara Cellular Systems, Ltd.  
Skyriver Communications  
Southern California Edison Company  
Southern California Gas Company  
Southern California Regional Rail Auth.  
TV MICROWAVES CO  
Turn Wireless, LLC  
Ventura, County of  
Verizon California Inc.  
Verizon Wireless (VAW) LLC (CA)  
Vintage Production California LLC  
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: 03/11/2013  
Job Number: 130226COMSJC06

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**Administrative Information**

Status TEMPORARY (Operation from 05/24/2013 to 10/24/2013)  
Call Sign TEMP10  
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 Geostationary  
Mode TO - Transmit-Only  
Modulation Digital  
Satellite Arc 70° W to 136° West Longitude  
Azimuth Range 116.2° to 208.6°  
Corresponding Elevation Angles 25.0° / 46.0°  
Antenna Centerline (AGL) 8.23 m / 27.0 ft

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**Antenna Information**

Manufacturer Scientific-Atlanta  
Model 10 Meter  
Gain / Diameter 53.8 dBi / 10.0 m  
3-dB / 15-dB Beamwidth 0.40° / 0.60°

**Transmit**

Max Available RF Power	(dBW/4 kHz)	0.9
	(dBW/MHz)	24.9
Maximum EIRP	(dBW/4 kHz)	54.7
	(dBW/MHz)	78.7

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 / 6173.7  
850KFXD / 6176.3

Max Great Circle Coordination Distance 185.3 km / 115.1 mi  
Precipitation Scatter Contour Radius 126.2 km / 78.4 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 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	0.9 (dBW/4 kHz)	

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	9.45	115.22	-10.00	100.00
5	9.81	110.47	-10.00	100.00
10	11.84	105.81	-10.00	100.00
15	10.91	100.91	-10.00	100.00
20	12.89	96.11	-10.00	100.00
25	13.83	91.22	-10.00	100.00
30	11.51	86.35	-10.00	100.00
35	11.05	81.51	-10.00	100.00
40	11.36	76.64	-10.00	100.00
45	12.08	71.74	-10.00	100.00
50	12.02	66.89	-10.00	100.00
55	12.02	62.04	-10.00	100.00
60	11.89	57.24	-10.00	100.00
65	10.13	52.77	-10.00	100.00
70	10.13	48.05	-10.00	100.00
75	10.13	43.38	-8.93	100.00
80	8.91	39.20	-7.83	100.00
85	8.91	34.76	-6.53	100.00
90	6.34	31.80	-5.56	100.00
95	6.32	27.99	-4.17	100.00
100	6.32	24.55	-2.75	100.00
105	6.35	21.65	-1.39	100.00
110	5.84	20.09	-0.57	100.00
115	4.00	21.01	-1.06	100.00
120	2.01	23.25	-2.16	130.71
125	1.94	24.55	-2.75	130.18
130	2.45	26.20	-3.46	117.32
135	2.62	28.87	-4.51	110.29
140	2.67	32.10	-5.66	105.08
145	2.87	35.15	-6.65	100.00
150	2.62	38.28	-7.57	100.00
155	3.21	40.43	-8.17	100.00
160	2.93	42.90	-8.81	100.00
165	3.52	44.17	-9.13	100.00
170	3.28	45.69	-9.49	100.00
175	3.12	46.63	-9.72	100.00
180	2.53	47.49	-9.92	100.00
185	2.35	47.40	-9.89	100.00

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## Earth Station Data Sheet

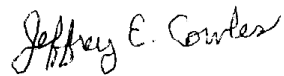
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Interference Objectives: Long Term	-154.0 dBW/4 kHz 20%
Short Term	-131.0 dBW/4 kHz 0.0025%
Max Available RF Power	0.9 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Horizon Gain (dBi)	Coordination Distance (km)
			Transmit 6.1 GHz	
190	2.28	46.64	-9.72	100.00
195	0.78	46.81	-9.76	138.12
200	0.45	46.20	-9.62	158.51
205	1.23	44.90	-9.31	124.62
210	0.97	45.07	-9.35	131.88
215	0.94	45.44	-9.44	132.89
220	0.00	47.11	-9.83	185.27
225	0.00	48.24	-10.00	184.60
230	0.00	49.73	-10.00	184.60
235	0.00	51.55	-10.00	184.60
240	0.00	53.67	-10.00	184.60
245	0.00	56.03	-10.00	184.60
250	0.00	58.63	-10.00	184.60
255	0.00	61.41	-10.00	184.60
260	0.00	64.35	-10.00	184.60
265	0.00	67.42	-10.00	184.60
270	0.00	70.60	-10.00	184.60
275	1.12	73.54	-10.00	125.36
280	1.30	76.92	-10.00	120.83
285	2.94	80.13	-10.00	100.00
290	4.19	83.62	-10.00	100.00
295	4.04	87.35	-10.00	100.00
300	4.44	91.07	-10.00	100.00
305	3.72	94.75	-10.00	100.00
310	3.09	98.34	-10.00	100.00
315	2.77	101.89	-10.00	100.00
320	3.33	105.57	-10.00	100.00
325	4.75	109.54	-10.00	100.00
330	5.93	113.51	-10.00	100.00
335	7.78	117.80	-10.00	100.00
340	8.31	121.56	-10.00	100.00
345	9.31	125.51	-10.00	100.00
350	9.65	124.77	-10.00	100.00
355	9.64	120.02	-10.00	100.00

## 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: March 11, 2013