

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: 08/21/2013 - 11/01/2013

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 July 24, 2013.

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
Freeport-McMoRan Oil & Gas LLC
Fresno MSA Limited Partnership
Fresno, County of
GTE Mobilnet of California LTD Partnersh
GTE Mobilnet of Santa Barbara LTD Ptsh
Gila Electronics of Yuma, Inc
KERN COMMUNITY COLLEGE DISTRICT BAKERSFI
KERN COUNTY SUPERINTENDENT OF SCHOOLS
KERN ED TELECOM CONSORTIUM

Company (Continued)

KTLA, LLC
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.
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 County Water Authority
San Diego Gas & Electric Company
Santa Barbara Cellular Systems, Ltd.
Santa Barbara, County of
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
Ultimate Internet Access, Inc.
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 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: 07/31/2013
Job Number: 130724COMSJC01

Administrative Information

Status TEMPORARY (Operation from 08/21/2013 to 11/01/2013)
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) 10.5
(dBW/MHz) 34.5

Maximum EIRP (dBW/4 kHz) 64.3
(dBW/MHz) 88.3
(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**
931KFXD / 6412.912
931KFXD / 6415.0

Max Great Circle Coordination Distance 347.9 km / 216.2 mi
Precipitation Scatter Contour Radius 320.0 km / 198.8 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	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	10.5 (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
185	2.35	108.51	4.53	347.90

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FILLMORE, CA

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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	10.5 (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: July 31, 2013