

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: 2/22/2016 - 03/10/2016

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 January 22, 2016.

Company

ABC Holding Company Inc.  
AirSites2000, LLC  
American Tower, LLC  
Anaheim City, of  
Area Energy LLC  
Arizona Public Service Company (APS)  
Arizona, State Of  
BNS Electronics, Inc.  
BNSF Railway Company  
Boeing Company  
California, State of  
Calvary Chapel of Costa Mesa  
CBS Broadcasting Inc  
CBS Communication Services Inc  
CCO SoCal I, LLC  
CCO SoCal I, LLC  
City of Glendale  
City of Los Angeles Dept Water & Power  
City of Montebello  
City of Pomona  
City of Torrance  
City of Yuma  
Coachella Valley Water District  
Coast Community College District  
Communication Services, Inc.  
Conterra Ultra Broadband, LLC  
DM Ventures, Inc. dba Warp2Biz  
El Paso Natural Gas Company, LLC  
Encina Communications Company  
Entravision Holdings, LLC  
Exxon Communications Company  
Federal Communication Commission  
Fisher Wireless Services, Inc.

Frazier Mountain Internet Service, Inc.  
Freeport-McMoRan Oil & Gas LLC  
Fresno MSA Limited Partnership  
Frontier Communications of the Southwest  
Glendale, City of  
Global Telecom & Technology Americas  
Global Telecom & Technology Americas, In  
GovNET Licenses LLC  
GTE Mobilnet of California LTD Partnersh  
GTE Mobilnet of Santa Barbara LTD Ptnsh  
GULF-CALIFORNIA BROADCAST COMPANY  
HARRIS CORPORATION  
INCOMM DIVISION CHURCH OF SCIENTOLOGY  
ION Media Los Angeles License, Inc.  
Kern Ed Telecom Consortium  
Kern, County of  
KTLA, LLC  
LDM Engineering  
Los Angeles City Info Technology Agency  
Los Angeles County Dept of Public Works  
Los Angeles County FCC Licensing Section  
Los Angeles County Metro Transit Auth  
Los Angeles SMSA Ltd. Partnership  
LOS ANGELES UNIFIED SCHOOL DISTRICT  
Metropolitan Water Dist of So California  
MHO Networks  
Mile High Inc.  
MOBILE RELAY ASSOCIATES INC  
New Cingular Wireless PCS LLC - AZ  
New Cingular Wireless PCS - Los Angeles  
New Cingular Wireless PCS LLC - N CAL  
Nextel License Holdings 4 Inc.  
Nextel of California Inc.  
Nextweb Inc  
Northrop Grumman Systems Corp.  
NRJ TV LA License Co, LLC  
Olympic Wireless, LLC  
Orange, County of, CA  
Pacific Bell Tel Com dba AT&T California  
Pacific Gas and Electric Company  
PACIFIC PIPELINE SYSTEM LLC  
Regents of the University of California  
Riverside, County of  
San Bernardino County of California  
San Diego, County of  
Santa Barbara Cellular Systems, Ltd.  
Santa Barbara, County of  
Skyriver Communications  
Southern California Edison Company  
Southern California Gas Company  
Southern California Regional Rail Auth.  
Sparkplug Southwest, LLC  
Sprint PCS  
T-Mobile License LLC  
Turn Wireless, LLC  
TV MICROWAVES CO

Ultimate Internet Access, Inc  
Union Pacific Railroad Company  
University of California, HPWREN  
Vectus, Inc  
VENOCO, INC.  
Ventura, County of  
Verizon California Inc.  
Verizon Wireless (VAW) LLC (Southern CA)  
Verizon Wireless (VAW) LLC-N CA/NV  
Verizon Wireless(VAW) LLC-AZ/CO/NM/NV/UT  
Vintage Production California LLC  
Western Technical Services  
WWC License LLC - AZ/CO/NM/NV/UT

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

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

**COMSEARCH**  
**Earth Station Data Sheet**

19700 Janelia Farm Boulevard, Ashburn, VA 20147  
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Date: 01/22/2016  
Job Number: 160122COMSGE02

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**Administrative Information**

Status TEMPORARY (Operation from 02/22/2016 to 03/10/2016)  
Call Sign TEMP03  
Licensee Code INTELS  
Licensee Name Intelsat License LLC

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**Site Information** **FILLMORE, CA**

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 Analog and Digital  
Satellite Arc 45.6° W to 192.2° West Longitude  
Azimuth Range 99.6° to 260.4°  
Corresponding Elevation Angles 5.1° / 5.0°  
Antenna Centerline (AGL) 8.23 m / 27.0 ft

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**Antenna Information** **Transmit - FCC32**

Manufacturer Scientific-Atlanta  
Model 3311  
Gain / Diameter 53.8 dBi / 10.0 m  
3-dB / 15-dB Beamwidth 0.40° / 0.60°

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** **Transmit 6.1 GHz**

Emission / Frequency Range (MHz) 850KFXD - 850KFXD / 6424.072 - 6425.980

Max Great Circle Coordination Distance 543.9 km / 337.9 mi  
Precipitation Scatter Contour Radius 396.3 km / 246.2 mi

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**Coordination Values****FILMORE, 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 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)
0	9.41	99.59	-10.00	100.00
5	9.28	94.62	-10.00	100.00
10	10.39	89.63	-10.00	100.00
15	10.81	84.65	-10.00	100.00
20	11.67	79.70	-10.00	100.00
25	12.11	74.75	-10.00	100.00
30	11.51	69.76	-10.00	100.00
35	10.87	64.77	-10.00	100.00
40	11.36	59.83	-10.00	100.00
45	12.04	54.93	-10.00	100.00
50	12.00	49.98	-10.00	100.00
55	11.61	45.01	-9.33	100.00
60	10.79	39.97	-8.04	100.00
65	9.78	34.91	-6.57	100.00
70	9.99	30.00	-4.93	100.00
75	9.18	24.95	-2.93	100.00
80	8.81	19.97	-0.51	100.00
85	8.14	14.94	2.64	105.61
90	7.27	9.88	7.14	132.90
95	5.88	4.70	15.20	194.78
100	6.25	0.44	40.98	531.89
105	6.17	3.67	17.90	205.45
110	4.75	8.51	8.76	172.71
115	2.86	13.60	3.66	183.84
120	2.00	18.02	0.61	188.68
125	1.86	21.93	-1.52	182.13
130	2.45	25.27	-3.06	157.83
135	2.61	28.73	-4.46	147.69
140	2.66	32.11	-5.67	141.67
145	2.81	35.20	-6.66	134.75
150	2.62	38.28	-7.57	134.91
155	3.21	40.44	-8.17	123.08
160	2.93	42.90	-8.81	125.83
165	3.48	44.21	-9.14	114.83
170	3.26	45.71	-9.50	117.38
175	3.12	46.63	-9.72	118.99
180	2.52	47.50	-9.92	129.29
185	2.35	47.40	-9.89	132.75

<b>Coordination Values</b>	<b>FILMORE, CA</b>
Licensee Name	Intelsat License LLC
Latitude (NAD 83)	34° 24' 22.0" N
Longitude (NAD 83)	118° 53' 37.4" W
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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	10.9 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	2.28	46.64	-9.72	133.40
195	0.77	46.65	-9.72	182.25
200	0.45	45.00	-9.33	203.50
205	1.20	42.04	-8.59	168.69
210	0.96	39.53	-7.92	180.37
215	0.92	36.55	-7.07	186.12
220	0.00	33.92	-6.26	239.30
225	0.00	30.45	-5.09	244.97
230	0.00	26.83	-3.72	251.22
235	0.00	23.09	-2.08	259.79
240	0.00	19.24	-0.11	270.78
245	0.00	15.33	2.36	285.44
250	0.00	11.35	5.63	306.52
255	0.00	7.37	10.31	339.69
260	0.00	5.06	14.40	543.87
265	0.00	6.84	11.13	345.82
270	0.00	10.85	6.11	309.81
275	1.11	15.13	2.50	221.39
280	1.29	19.96	-0.51	203.55
285	2.94	24.70	-2.82	148.14
290	4.19	29.63	-4.79	119.31
295	4.00	34.63	-6.49	115.45
300	4.44	39.62	-7.95	104.00
305	3.70	44.64	-9.24	110.50
310	3.09	49.65	-10.00	118.53
315	2.77	54.65	-10.00	124.33
320	3.24	59.64	-10.00	115.70
325	3.81	64.63	-10.00	105.65
330	5.52	69.62	-10.00	100.00
335	7.47	74.63	-10.00	100.00
340	8.31	79.64	-10.00	100.00
345	8.76	84.63	-10.00	100.00
350	9.64	89.62	-10.00	100.00
355	9.46	94.61	-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.

BY: 

Gary K. Edwards  
Senior Manager  
COMSEARCH  
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DATED: February 11, 2016