

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: 12/01/2015 - 02/28/2016

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 March 10, 2015.

Company

ABC Holding Company Inc.  
AirSites2000, LLC  
American Tower, LLC  
Anaheim City, of  
BNS Electronics, Inc.  
California, State of  
Calvary Chapel of Costa Mesa  
City of Los Angeles Dept Water & Power  
City of Montebello  
Coast Community College District  
Communication Services, Inc.  
Conterra Ultra Broadband, LLC  
DM Ventures, Inc. dba Warp2Biz  
Encina Communications Company  
Exxon Communications Company  
Frazier Mountain Internet Service, Inc.  
Freeport-McMoRan Oil & Gas LLC  
Fresno MSA Limited Partnership  
GTE Mobilnet of California LTD Partnersh  
GTE Mobilnet of Santa Barbara LTD Ptnsh  
Glendale, City of  
ION Media Los Angeles License, Inc.  
KTLA, LLC  
Kern Ed Telecom Consortium  
Kern, County of  
LDM Engineering  
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 County Metro Transit Auth  
Los Angeles SMSA Ltd. Partnership  
MHO Networks

MOBILE RELAY ASSOCIATES INC  
Metropolitan Water Dist of So California  
NRJ TV LA License Co, LLC  
New Cingular Wireless PCS - Los Angeles  
New Cingular Wireless PCS LLC - N CAL  
Nextel of California Inc.  
Nextweb Inc  
Northrop Grumman Systems Corp.  
Olympic Wireless, LLC  
Orange, County of, CA  
Pacific Bell Tel Com dba AT&T California  
Regents of the University of California  
San Bernardino County of California  
Santa Barbara Cellular Systems, Ltd.  
Santa Barbara, County of  
Skyriver Communications  
Southern California Edison Company  
Southern California Gas Company  
Southern California Regional Rail Auth.  
TV MICROWAVES CO  
Turn Wireless, LLC  
Union Pacific Railroad Company  
Ventura, County of  
Verizon California Inc.  
Verizon Wireless (VAW) LLC (Southern CA)  
Verizon Wireless (VAW) LLC-N CA/NV  
Vintage Production California LLC  
Western Technical Services

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

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Date: 10/22/2015  
Job Number: <PCNJobCode>

### Administrative Information

Status: TEMPORARY (Operation from 12/01/2015 to 02/28/2016)  
Call Sign: E4132  
Licensee Code: INTELS  
Licensee Name: Intelsat License LLC

### 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

### Link Information

Satellite Type: Geostationary  
Mode: TR - Transmit-Receive  
Modulation: No Modulation  
Satellite Arc: 55.5° W to 191° West Longitude  
Azimuth Range: 105.8° to 259.7°  
Corresponding Elevation Angles: 13.2° / 6.0°  
Antenna Centerline (AGL): 8.23 m / 27.0 ft

### Antenna Information

Manufacturer:  
Model:  
Gain / Diameter:  
3-dB / 15-dB Beamwidth:

### Receive - FCC32

Scientific-Atlanta  
3311  
50.5 dBi / 10.0 m  
0.40° / 1.00°

### Transmit - FCC32

Scientific-Atlanta  
3311  
53.8 dBi / 10.0 m  
0.40° / 0.60°

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

10.9  
34.9

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

64.7  
88.7  
88.0

Interference Objectives: Long Term -152.0 dBW/MHz 20%  
Short Term -131.0 dBW/MHz 0.01%

-154.0 dBW/4 kHz 20%  
-131.0 dBW/4 kHz 0.0025%

### Frequency Information

Emission / Frequency Range (MHz)

### Receive 4.0 GHz

850KFXD - 850KFXD / 3700.0 - 4200.0

### Transmit 6.1 GHz

850KFXD - 850KFXD / 6173.7 - 6176.3

Max Great Circle Coordination Distance: 450.0 km / 279.6 mi  
Precipitation Scatter Contour Radius: 305.3 km / 189.7 mi

520.3 km / 323.3 mi  
386.4 km / 240.0 mi

**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 10.0 Meter  
 Antenna Mode Receive 4.0 GHz Transmit 6.1 GHz  
 Interference Objectives: Long Term -152.0 dBW/MHz 20% -154.0 dBW/4 kHz 20%  
 Short Term -131.0 dBW/MHz 0.01% -131.0 dBW/4 kHz 0.0025%  
 Max Available RF Power 10.9 (dBW/4 kHz)

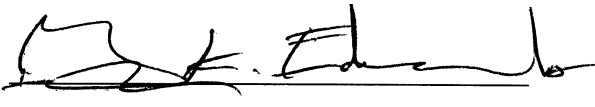
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 4.0 GHz		Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
0	9.41	100.32	-10.00	100.00	-10.00	100.00
5	9.28	100.78	-10.00	100.00	-10.00	100.00
10	10.39	95.80	-10.00	100.00	-10.00	100.00
15	10.81	90.80	-10.00	100.00	-10.00	100.00
20	11.67	85.81	-10.00	100.00	-10.00	100.00
25	12.11	80.81	-10.00	100.00	-10.00	100.00
30	11.51	75.81	-10.00	100.00	-10.00	100.00
35	10.87	70.82	-10.00	100.00	-10.00	100.00
40	11.36	65.82	-10.00	100.00	-10.00	100.00
45	12.04	60.81	-10.00	100.00	-10.00	100.00
50	12.00	55.81	-10.00	100.00	-10.00	100.00
55	11.61	50.82	-10.00	100.00	-10.00	100.00
60	10.79	45.86	-9.53	100.00	-9.53	100.00
65	9.78	40.92	-8.30	100.00	-8.30	100.00
70	9.99	35.93	-6.89	100.00	-6.89	100.00
75	9.18	31.04	-5.30	100.00	-5.30	100.00
80	8.81	26.15	-3.44	100.00	-3.44	100.00
85	8.14	21.39	-1.26	100.00	-1.26	100.00
90	7.27	16.86	1.33	100.00	1.33	109.32
95	5.88	13.04	4.12	122.90	4.12	134.03
100	6.25	9.06	8.07	134.72	8.07	147.66
105	6.17	7.10	10.72	146.20	10.72	162.99
110	4.75	9.45	7.62	148.42	7.62	164.73
115	2.86	13.82	3.49	165.15	3.49	183.00
120	2.00	18.02	0.61	172.97	0.61	188.68
125	1.86	21.93	-1.53	164.81	-1.53	182.12
130	2.45	25.27	-3.06	143.70	-3.06	157.83
135	2.61	28.73	-4.46	135.00	-4.46	147.69
140	2.66	32.11	-5.67	131.12	-5.67	141.67
145	2.81	35.20	-6.66	124.51	-6.66	134.75
150	2.62	38.28	-7.57	124.55	-7.57	134.91
155	3.21	40.43	-8.17	111.23	-8.17	123.08
160	2.93	42.91	-8.81	113.93	-8.81	125.83
165	3.48	44.21	-9.14	102.73	-9.14	114.83
170	3.26	45.71	-9.50	105.31	-9.50	117.38
175	3.12	46.63	-9.72	107.00	-9.72	118.99
180	2.52	47.50	-9.92	117.51	-9.92	129.29
185	2.35	47.40	-9.89	121.04	-9.89	132.75

<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 10.0 Meter		
Antenna Mode	Receive 4.0 GHz		Transmit 6.1 GHz
Interference Objectives: Long Term	-152.0 dBW/MHz	20%	-154.0 dBW/4 kHz 20%
Short Term	-131.0 dBW/MHz	0.01%	-131.0 dBW/4 kHz 0.0025%
Max Available RF Power		10.9 (dBW/4 kHz)	

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 4.0 GHz		Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
190	2.28	46.64	-9.72	122.93	-9.72	133.40
195	0.77	46.65	-9.72	166.08	-9.72	182.25
200	0.45	45.00	-9.33	190.28	-9.33	203.50
205	1.20	42.04	-8.59	152.50	-8.59	168.69
210	0.96	39.52	-7.92	163.95	-7.92	180.37
215	0.92	36.55	-7.07	171.76	-7.07	186.12
220	0.00	33.92	-6.26	223.82	-6.26	239.30
225	0.00	30.45	-5.09	229.21	-5.09	244.97
230	0.00	26.83	-3.72	235.83	-3.72	251.22
235	0.00	23.09	-2.08	244.12	-2.08	259.79
240	0.00	19.25	-0.11	254.88	-0.11	270.77
245	0.00	15.33	2.36	269.06	2.36	285.44
250	0.00	11.35	5.63	289.31	5.63	306.55
255	0.00	7.62	9.95	319.35	9.95	337.02
260	0.00	6.04	12.47	450.01	12.47	520.34
265	0.00	8.05	9.35	315.09	9.35	332.60
270	0.00	11.96	5.06	285.66	5.06	302.63
275	1.11	16.09	1.83	204.54	1.83	218.07
280	1.29	20.87	-0.99	186.66	-0.99	201.33
285	2.94	25.52	-3.17	135.05	-3.17	146.56
290	4.19	30.39	-5.07	106.60	-5.07	118.25
295	4.00	35.39	-6.72	102.89	-6.72	114.57
300	4.44	40.37	-8.15	100.00	-8.15	103.26
305	3.70	45.39	-9.42	100.00	-9.42	109.82
310	3.09	50.40	-10.00	106.59	-10.00	118.53
315	2.77	55.41	-10.00	112.48	-10.00	124.33
320	3.24	60.38	-10.00	103.72	-10.00	115.70
325	3.81	65.36	-10.00	100.00	-10.00	105.65
330	5.52	70.34	-10.00	100.00	-10.00	100.00
335	7.47	75.35	-10.00	100.00	-10.00	100.00
340	8.31	80.35	-10.00	100.00	-10.00	100.00
345	8.76	85.35	-10.00	100.00	-10.00	100.00
350	9.64	90.34	-10.00	100.00	-10.00	100.00
355	9.46	95.33	-10.00	100.00	-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  
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Ashburn, VA 20147

DATED: November 16, 2015