

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: 11/17/2018 - 12/17/2018

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 September 18, 2018.

Company

ABC Holding Company Inc.
AT&T Mobility Spectrum LLC - N CA
AT&T Mobility Spectrum LLC - Southern CA
Air Sites 2000 LLC
American Tower, LLC
Anaheim City, of
Arizona Public Service Company (APS)
BNS Electronics, Inc.
CCO SoCal I, LLC
California Internet Solutions, Inc.
California Internet, L.P.
California Resources Corporation
California State University, Northridge
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
Entravision Holdings, LLC
Exxon Communications Company
Federal Communication Commission
Fresno MSA Limited Partnership
Frontier California Inc.
Frontier Communications of the Southwest
GTE Mobilnet of Santa Barbara LTD Ptnsh
Glendale City California
Global Telecom & Technology Americas, In
Go Creative Wireless
GovNET Licenses LLC
ION Media Los Angeles License, Inc.
KTLA, LLC
Kern Ed Telecom Consortium

Kern, County of
 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 Regional Interoperable Comm
 Los Angeles SMSA Ltd. Partnership
 Los Angeles Unified School District
 MHO Networks
 Metropolitan Water Dist of So California
 Mobile Relay Associates Inc.
 New Cingular Wireless PCS LLC - AZ
 New Cingular Wireless PCS - Los Angeles
 New Cingular Wireless PCS LLC - N CAL
 New Cingular Wireless PCS, LLC - SE 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 Lightwave Inc
 Regents of the University of California
 Riverside, County of
 San Bernardino County of California
 San Diego Broadband
 San Diego Gas & Electric Company
 Santa Barbara Cellular Systems, Ltd.
 Santa Barbara, County of
 Sentinel Peak Resources California LLC
 Skyriver Communications
 Southern California Edison Company
 Southern California Gas Company
 Southern California Regional Rail Auth.
 Spectrum Link, Inc.
 T-Mobile License LLC
 TV Microwaves Company
 Turn Wireless, LLC
 Ultimate Internet Access, Inc
 Union Pacific Railroad Company
 University of California, HPWREN
 Vectus, Inc
 Ventura, County of
 Verizon Wireless (VAW) LLC (Southern CA)
 Verizon Wireless (VAW) LLC-N CA/NV
 Verizon Wireless(VAW) LLC-AZ/CO/NM/NV/UT
 Wiline Spectrum Holdings LLC
 Wisprenn

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: 09/18/2018
Job Number: 180918COMSGE15

Administrative Information

Status	TEMPORARY (Operation from 11/17/2018 to 12/17/2018)
Call Sign	TEMP12
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' 34.0" W
Climate Zone	A
Rain Zone	4
Ground Elevation (AMSL)	331.09 m / 1086.3 ft

Link Information

Satellite Type	Geostationary
Mode	TO - Transmit-Only
Modulation	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

Antenna Information

Transmit - FCC32

Manufacturer	Scientific-Atlanta
Model	3311
Gain / Diameter	54.0 dBi / 10.3 m
3-dB / 15-dB Beamwidth	0.40° / 0.60°

Max Available RF Power	(dBW/4 kHz)	10.0
	(dBW/MHz)	34.0

Maximum EIRP	(dBW/4 kHz)	64.0
	(dBW/MHz)	88.0

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

Frequency Information

Transmit 6.1 GHz

Emission / Frequency Range (MHz)	1M00FXD / 6415.0
	1M00FXD / 6417.16

Max Great Circle Coordination Distance	535.5 km / 332.7 mi
Precipitation Scatter Contour Radius	377.8 km / 234.7 mi

Coordination Values		FILLMORE, CA	
Licensee Name		Intelsat License LLC	
Latitude (NAD 83)		34° 24' 22.0" N	
Longitude (NAD 83)		118° 53' 34.0" W	
Ground Elevation (AMSL)		331.09 m / 1086.3 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	10.0 (dBW/4 kHz)		

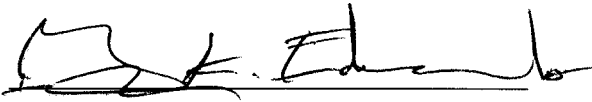
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	9.23	99.59	-10.00	100.00
5	10.68	94.61	-10.00	100.00
10	11.53	89.63	-10.00	100.00
15	9.69	84.65	-10.00	100.00
20	7.91	79.64	-10.00	100.00
25	9.98	74.69	-10.00	100.00
30	9.81	69.70	-10.00	100.00
35	10.40	64.75	-10.00	100.00
40	10.04	59.75	-10.00	100.00
45	9.30	54.74	-10.00	100.00
50	8.25	49.70	-10.00	100.00
55	7.02	44.66	-9.25	100.00
60	8.47	39.75	-7.98	100.00
65	9.70	34.90	-6.57	100.00
70	9.19	29.89	-4.89	100.00
75	8.53	24.86	-2.89	100.00
80	7.11	19.73	-0.38	100.49
85	5.27	14.63	2.87	132.56
90	4.58	9.64	7.40	161.57
95	5.46	4.65	15.32	195.16
100	4.77	0.47	40.28	525.95
105	3.79	5.08	14.34	213.40
110	3.63	9.18	7.93	184.19
115	2.67	13.72	3.57	183.23
120	2.31	17.83	0.72	177.38
125	1.52	22.14	-1.63	187.27
130	2.21	25.42	-3.13	158.97
135	2.38	28.89	-4.52	148.56
140	2.46	32.24	-5.71	141.79
145	2.77	35.22	-6.67	133.29
150	2.42	38.43	-7.62	135.14
155	2.83	40.74	-8.25	126.47
160	2.84	42.99	-8.83	124.19
165	3.34	44.34	-9.17	113.76
170	2.95	46.01	-9.57	119.26
175	2.90	46.86	-9.77	119.44
180	2.60	47.42	-9.90	124.52
185	2.02	47.72	-9.97	134.07

Coordination Values	FILLMORE, CA
Licensee Name	Intelsat License LLC
Latitude (NAD 83)	34° 24' 22.0" N
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Ground Elevation (AMSL)	331.09 m / 1086.3 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	10.0 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	2.12	46.80	-9.76	134.19
195	0.87	46.57	-9.70	173.10
200	0.26	45.15	-9.37	214.86
205	0.93	42.25	-8.65	174.79
210	0.65	39.75	-7.98	192.37
215	0.87	36.59	-7.08	184.97
220	0.00	33.92	-6.26	235.05
225	0.00	30.45	-5.09	240.59
230	0.00	26.83	-3.72	247.31
235	0.00	23.09	-2.08	255.01
240	0.00	19.24	-0.11	265.69
245	0.00	15.33	2.36	279.98
250	0.00	11.35	5.63	300.44
255	0.00	7.37	10.31	333.05
260	0.00	5.06	14.40	535.49
265	0.00	6.84	11.13	339.08
270	0.00	10.85	6.11	303.65
275	0.92	15.18	2.47	224.33
280	1.16	19.99	-0.52	203.12
285	2.42	24.75	-2.84	155.22
290	4.00	29.64	-4.80	118.45
295	3.78	34.64	-6.49	115.93
300	4.19	39.63	-7.95	104.05
305	3.71	44.64	-9.24	106.76
310	3.07	49.65	-10.00	115.29
315	2.67	54.65	-10.00	122.82
320	2.97	59.64	-10.00	117.12
325	4.02	64.62	-10.00	100.00
330	5.35	69.62	-10.00	100.00
335	6.18	74.62	-10.00	100.00
340	6.77	79.62	-10.00	100.00
345	7.57	84.62	-10.00	100.00
350	7.96	89.62	-10.00	100.00
355	8.29	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
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DATED: October 22, 2018