

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: 12/20/2016 - 01/04/2017

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 October 26, 2016.

Company

ABC Holding Company Inc.
AT&T Corp.
AT&T Mobility Spectrum LLC - Southern CA
AirSites2000, LLC
American Tower, LLC
Anaheim City, of
Arizona Public Service Company (APS)
BNS Electronics, Inc.
CCO SoCal I, LLC
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
Exxon Communications Company
Freeport-McMoRan Oil & Gas LLC
Fresno MSA Limited Partnership
Frontier Communications of the Southwest
GTE Mobilnet of Santa Barbara LTD Ptsh
Glendale, City of
Global Telecom & Technology Americas, In
GovNET Licenses LLC
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 Regional Interoperable Comm
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 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.
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 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.
Sparkplug Southwest, LLC
T-Mobile License LLC
TV Microwaves Company
Turn Wireless, LLC
Union Pacific Railroad Company
Vectus, 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

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: 10/25/2016
Job Number: 161026COMSGE05

Administrative Information

Status ENGINEER PROPOSAL
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 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 53.8 dBi / 10.0 m
3-dB / 15-dB Beamwidth 0.40° / 0.60°

Max Available RF Power (dBW/4 kHz) 4.8
(dBW/MHz) 28.8

Maximum EIRP (dBW/4 kHz) 58.6
(dBW/MHz) 82.6

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) 850KFXD / 6422.5 - 6424.5

Max Great Circle Coordination Distance 472.4 km / 293.5 mi
Precipitation Scatter Contour Radius 223.3 km / 138.7 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 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	4.8 (dBW/4 kHz)		

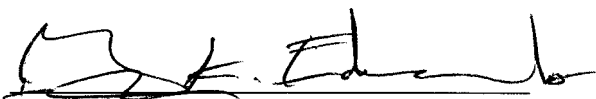
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	9.41	99.59	-10.00	100.00
5	9.28	94.62	-10.00	100.00
10	10.39	89.63	-10.00	100.00
15	10.81	84.65	-10.00	100.00
20	11.67	79.70	-10.00	100.00
25	12.11	74.75	-10.00	100.00
30	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	100.00
90	7.27	9.88	7.14	108.18
95	5.88	4.70	15.20	157.67
100	6.25	0.44	40.98	459.67
105	6.17	3.67	17.90	171.02
110	4.75	8.51	8.76	140.28
115	2.86	13.60	3.66	151.48
120	2.00	18.02	0.61	156.91
125	1.86	21.93	-1.52	151.25
130	2.45	25.27	-3.06	133.52
135	2.61	28.73	-4.46	125.12
140	2.66	32.11	-5.67	119.75
145	2.81	35.20	-6.66	113.12
150	2.62	38.28	-7.57	113.31
155	3.21	40.44	-8.17	100.00
160	2.93	42.90	-8.81	102.77
165	3.48	44.21	-9.14	100.00
170	3.26	45.71	-9.50	100.00
175	3.12	46.63	-9.72	100.00
180	2.52	47.50	-9.92	106.57
185	2.35	47.40	-9.89	110.13

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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	4.8 (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	112.02
195	0.77	46.65	-9.72	153.21
200	0.45	45.00	-9.33	177.77
205	1.20	42.04	-8.59	140.39
210	0.96	39.53	-7.92	150.88
215	0.92	36.55	-7.07	156.44
220	0.00	33.92	-6.26	212.41
225	0.00	30.45	-5.09	217.22
230	0.00	26.83	-3.72	223.08
235	0.00	23.09	-2.08	230.34
240	0.00	19.24	-0.11	239.55
245	0.00	15.33	2.36	251.11
250	0.00	11.35	5.63	268.69
255	0.00	7.37	10.31	297.10
260	0.00	5.06	14.40	472.45
265	0.00	6.84	11.13	302.43
270	0.00	10.85	6.11	271.47
275	1.11	15.13	2.50	194.52
280	1.29	19.96	-0.51	175.15
285	2.94	24.70	-2.82	125.37
290	4.19	29.63	-4.79	100.00
295	4.00	34.63	-6.49	100.00
300	4.44	39.62	-7.95	100.00
305	3.70	44.64	-9.24	100.00
310	3.09	49.65	-10.00	100.00
315	2.77	54.65	-10.00	101.49
320	3.24	59.64	-10.00	100.00
325	3.81	64.63	-10.00	100.00
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: 

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DATED: December 02, 2016