

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: 08/28/2016 - 09/07/2016

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 July 11, 2016.

Company

ABC Holding Company Inc.
AirSites2000, LLC
American Tower, LLC
Anaheim City, of
BNS Electronics, Inc.
CCO SoCal I, LLC
California, State of
Calvary Chapel of Costa Mesa
Chevron USA Inc.
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
Freeport-McMoRan Oil & Gas LLC
Fresno MSA Limited Partnership
Frontier Communications of the Southwest
GTE Mobilnet of California LTD Partnersh
GTE Mobilnet of Santa Barbara LTD Ptnsh
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 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
Regents of the University of California
Riverside, County of
San Bernardino County of California
San Diego Broadband
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 CO
Turn Wireless, LLC
Ultimate Internet Access, Inc
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: 07/11/2016
Job Number: 160711COMSGE01

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	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

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)	11.4
	(dBW/MHz)	35.4

Maximum EIRP	(dBW/4 kHz)	65.2
	(dBW/MHz)	89.2
	(dBW)	88.5

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 / 6415.0 - 6419.32
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Max Great Circle Coordination Distance	549.8 km / 341.6 mi
Precipitation Scatter Contour Radius	404.9 km / 251.6 mi

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	11.4 (dBW/4 kHz)		

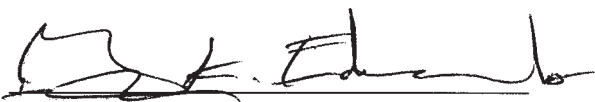
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	9.41	99.59	-10.00	100.00
5	9.28	94.62	-10.00	100.00
10	10.39	89.63	-10.00	100.00
15	10.81	84.65	-10.00	100.00
20	11.67	79.70	-10.00	100.00
25	12.11	74.75	-10.00	100.00
30	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	107.60
90	7.27	9.88	7.14	133.76
95	5.88	4.70	15.20	197.69
100	6.25	0.44	40.98	537.89
105	6.17	3.67	17.90	208.43
110	4.75	8.51	8.76	175.49
115	2.86	13.60	3.66	186.35
120	2.00	18.02	0.61	191.07
125	1.86	21.93	-1.52	184.59
130	2.45	25.27	-3.06	160.27
135	2.61	28.73	-4.46	149.92
140	2.66	32.11	-5.67	143.76
145	2.81	35.20	-6.66	136.67
150	2.62	38.28	-7.57	136.81
155	3.21	40.44	-8.17	124.91
160	2.93	42.90	-8.81	127.64
165	3.48	44.21	-9.14	116.64
170	3.26	45.71	-9.50	119.23
175	3.12	46.63	-9.72	120.91
180	2.52	47.50	-9.92	131.22
185	2.35	47.40	-9.89	133.42

Coordination Values		FILMORE, CA
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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	11.4 (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	135.31
195	0.77	46.65	-9.72	184.51
200	0.45	45.00	-9.33	205.54
205	1.20	42.04	-8.59	171.03
210	0.96	39.53	-7.92	182.63
215	0.92	36.55	-7.07	188.37
220	0.00	33.92	-6.26	241.70
225	0.00	30.45	-5.09	247.44
230	0.00	26.83	-3.72	253.80
235	0.00	23.09	-2.08	262.51
240	0.00	19.24	-0.11	273.66
245	0.00	15.33	2.36	288.54
250	0.00	11.35	5.63	309.89
255	0.00	7.37	10.31	343.44
260	0.00	5.06	14.40	549.80
265	0.00	6.84	11.13	349.63
270	0.00	10.85	6.11	313.22
275	1.11	15.13	2.50	223.90
280	1.29	19.96	-0.51	205.85
285	2.94	24.70	-2.82	150.44
290	4.19	29.63	-4.79	121.23
295	4.00	34.63	-6.49	117.33
300	4.44	39.62	-7.95	105.86
305	3.70	44.64	-9.24	112.31
310	3.09	49.65	-10.00	120.49
315	2.77	54.65	-10.00	126.28
320	3.24	59.64	-10.00	117.67
325	3.81	64.63	-10.00	107.64
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
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DATED: July 29, 2016