

Prepared By

**COMSEARCH**

19700 Janelia Farm Boulevard, Ashburn, VA 20147  
(703)726-5500 <http://www.comsearch.com>

Prepared For

**Intelsat License LLC  
Napa, California**

Temporary Transmit-Only Earth Station  
Operation Dates: 09/05/2018 - 11/29/2018

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 July 05, 2018.

Company

AC BidCO LLC  
AT&T Mobility Spectrum LLC - N CA  
AT&T Mobility Wireless Operations Hldgs  
Alameda County of California  
CBS Broadcasting Inc  
CBS Communications Services Inc  
California Internet, L.P.  
California Oregon Broadcasting Inc.  
California Resources Corporation  
California Rural Service Area #1, Inc.  
California, State of  
Cellco Partnership - Southern California  
Citizens Telecommunications of CA Inc.  
City & County of San Francisco PUC  
Contra Costa, County of  
County of San Mateo  
County of Santa Cruz  
Crystal Smr Inc.  
DigitalPath, Inc  
East Bay Municipal Utility District  
Encina Communications Corporation  
Ethernets Networks, Inc.  
Federal Communication Commission  
Field, David J  
Frontier California Inc.  
GTE Mobilnet of California LTD Partnersh  
Happy Valley Telephone Company  
Higher Ground LLC  
ICG Telecom Group, Inc. - Debtor in poss  
Ion Media Sacramento License, Inc.  
Johannesen, Norman A  
KDTV License Partnership, G.P.  
KGO Television, Inc.  
KVIE, Inc.  
M.U.T. Licensing, LLC

MHO Networks  
Marin, County of  
Mendocino County of  
Modesto Irrigation District  
Mountain Tower Network Company, LLC  
Napa, County of  
New Cingular Wireless PCS LLC - N CAL  
North Coast Internet  
Northstar San Francisco License LLC  
Olympic Wireless, LLC  
Pacific Bell Tel Com dba AT&T California  
Pacific Gas and Electric Company  
Placer, County of  
Plumas, County of  
Proxim Wireless Corporation  
Radio License Holding SRC LLC  
Redding MSA Limited Partnership  
Ridge Wireless  
Sacramento County  
Sacramento Municipal Utility District  
Sacramento Valley Limited Partnership  
San Francisco, City and County of  
San Joaquin County  
Santa Clara Valley Water District  
Santa Clara, County of  
Silicon Valley Regional Interop Authorit  
Solano, County of  
Sonoma, County of CA  
T-Mobile License LLC  
The Internet Store, Inc.  
Union Pacific Railroad Company  
Velocity Communications, Inc.  
Verizon Wireless (VAW) LLC-N CA/NV  
Wiline Spectrum Holdings LLC  
Yolo Emergency Communications Agency  
Yolo, County of  
Your Town Online, Inc  
Yuba County Water Agency

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: 07/05/2018  
Job Number: 180705COMSGE09

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### Administrative Information

Status: TEMPORARY (Operation from 09/05/2018 to 11/29/2018)  
Call Sign: TEMP11  
Licensee Code: INTELS  
Licensee Name: Intelsat License LLC

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### Site Information

**NAPA, CA**

Venue Name:  
Latitude (NAD 83): 38° 14' 43.7" N  
Longitude (NAD 83): 122° 16' 50.9" W  
Climate Zone: B  
Rain Zone: 3  
Ground Elevation (AMSL): 7.62 m / 25.0 ft

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### Link Information

Satellite Type: Geostationary  
Mode: TO - Transmit-Only  
Modulation: Digital  
Satellite Arc: 190° W to 194.5° West Longitude  
Azimuth Range: 255.8° to 258.8°  
Corresponding Elevation Angles: 8.7° / 5.2°  
Antenna Centerline (AGL): 7.62 m / 25.0 ft

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### Antenna Information

**Transmit - FCC32**

Manufacturer: Vertex  
Model: 15.2 meter  
Gain / Diameter: 58.4 dBi / 15.2 m  
3-dB / 15-dB Beamwidth: 0.22° / 0.44°

Max Available RF Power (dBW/4 kHz): 11.8  
(dBW/MHz): 35.8

Maximum EIRP (dBW/4 kHz): 70.2  
(dBW/MHz): 94.2

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 - 1M20FXD / 5850.0 - 5853.5  
850KFXD - 1M20FXD / 6421.5 - 6425.0

Max Great Circle Coordination Distance: 629.3 km / 391.0 mi  
Precipitation Scatter Contour Radius: 409.0 km / 254.1 mi

Coordination Values		NAPA, CA	
Licensee Name		Intelsat License LLC	
Latitude (NAD 83)		38° 14' 43.7" N	
Longitude (NAD 83)		122° 16' 50.9" W	
Ground Elevation (AMSL)		7.62 m / 25.0 ft	
Antenna Centerline (AGL)		7.62 m / 25.0 ft	
Antenna Model		Vertex 15.2 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	11.8 (dBW/4 kHz)		

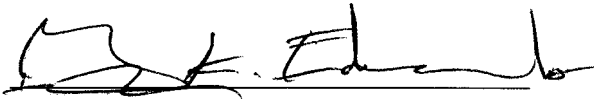
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	0.00	101.18	-10.00	297.29
5	0.00	106.16	-10.00	297.29
10	0.90	111.17	-10.00	192.13
15	0.80	116.15	-10.00	201.99
20	0.47	121.11	-10.00	240.42
25	0.36	126.08	-10.00	260.36
30	0.83	131.08	-10.00	199.63
35	2.06	136.14	-10.00	141.08
40	1.48	141.08	-10.00	161.72
45	2.55	146.14	-10.00	129.11
50	2.84	151.14	-10.00	122.79
55	3.18	156.15	-10.00	116.54
60	3.65	161.17	-10.00	111.17
65	4.36	166.20	-10.00	103.28
70	4.71	171.22	-10.00	100.95
75	4.39	175.60	-10.00	103.07
80	4.21	173.81	-10.00	104.25
85	4.11	169.68	-10.00	104.93
90	3.72	164.93	-10.00	109.96
95	3.06	159.98	-10.00	118.48
100	3.50	155.24	-10.00	113.45
105	2.95	150.25	-10.00	120.41
110	2.71	145.30	-10.00	125.48
115	3.16	140.44	-10.00	116.93
120	3.45	135.52	-10.00	114.28
125	4.18	130.61	-10.00	104.44
130	4.47	125.65	-10.00	102.53
135	4.15	120.66	-10.00	104.68
140	3.41	115.65	-10.00	114.82
145	3.56	110.68	-10.00	112.49
150	4.25	105.72	-10.00	104.01
155	4.31	100.73	-10.00	103.63
160	3.91	95.74	-10.00	107.06
165	3.42	90.76	-10.00	114.63
170	3.06	85.79	-10.00	118.58
175	2.65	80.82	-10.00	126.70
180	2.33	75.86	-10.00	134.13
185	2.03	70.90	-10.00	142.01

<b>Coordination Values</b>	<b>NAPA, CA</b>	
Licensee Name	Intelsat License LLC	
Latitude (NAD 83)	38° 14' 43.7" N	
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Ground Elevation (AMSL)	7.62 m / 25.0 ft	
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Antenna Model	Vertex 15.2 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	11.8 (dBW/4 kHz)	

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	1.76	65.96	-10.00	151.08
195	1.37	61.03	-10.00	166.31
200	0.92	56.13	-10.00	190.43
205	0.52	51.24	-10.00	232.68
210	0.00	46.41	-9.66	300.08
215	0.00	41.53	-8.46	310.35
220	0.00	36.68	-7.11	322.29
225	0.00	31.86	-5.58	336.38
230	0.00	27.11	-3.83	352.85
235	0.00	22.45	-1.78	373.82
240	0.00	17.97	0.64	400.22
245	0.22	13.69	3.59	426.43
250	0.26	9.89	7.12	453.60
255	0.21	6.27	12.08	557.32
260	0.34	5.03	14.46	629.31
265	0.46	7.83	9.65	421.21
270	0.49	12.17	4.87	357.56
275	0.51	16.88	1.32	318.84
280	0.45	21.73	-1.43	308.73
285	0.50	26.62	-3.63	278.55
290	0.88	31.50	-5.46	222.81
295	0.98	36.44	-7.04	202.34
300	0.80	41.42	-8.43	211.72
305	1.18	46.37	-9.66	176.26
310	0.80	51.37	-10.00	202.20
315	0.85	56.34	-10.00	197.01
320	1.00	61.32	-10.00	182.76
325	1.12	66.30	-10.00	177.10
330	0.82	71.29	-10.00	200.26
335	0.00	76.29	-10.00	297.29
340	0.00	81.27	-10.00	297.29
345	0.00	86.25	-10.00	297.29
350	0.00	91.23	-10.00	297.29
355	0.00	96.20	-10.00	297.29

## 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  
19700 Janelia Farm Boulevard  
Ashburn, VA 20147

DATED: July 24, 2018