

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: 11/04/2019 - 01/04/2020

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 30, 2019.

Company

101Netlink
AT&T Mobility Spectrum LLC - N CA
Alameda County of California
CBS Broadcasting Inc
CBS Communications Services Inc
California Rural Service Area #1, Inc.
California State University, Sacramento
California, State of
Cify of Richmond California
City & County of San Francisco PUC
City of Los Angeles Dept Water & Power
Commnet Four Corners, LLC
Commnet of Nevada, LLC
Contra Costa, County of
County of San Mateo
Crystal Smr Inc.
East Bay Municipal Utility District
East Bay Regional Park
Federal Communication Commission
Field, David J
Golden Gate Bridge Hwy & Trans Dist
HARRIS CORPORATION
KGO Television, Inc.
M.U.T. Licensing, LLC
Marin, County of
Mendocino County of
Merced Irrigation District
Midpeninsula Regional Open Space Dist.
Modesto Irrigation District
Napa, City of
Napa, County of
New Cingular Wireless PCS LLC - N CAL
New Cingular Wireless PCS, LLC - S/E CAL
Nextel of California Inc.
Northern California Power Agency

Olympic Wireless, LLC
Pacific Bell Tel Com dba AT&T California
Pacific Gas and Electric Company
Pacific Satellite Connection, Inc.
Placer, County of
Sacramento County
Sacramento Municipal Utility District
Sacramento Valley Limited Partnership
San Jose, City of (ECOMM)
San Mateo County Transit Dist - PCJPB
Santa Clara, County of
Solano, County of
Sonoma, County of CA
South Feather Water and Power Agency
Southern California Edison Company
Stanislaus Regional 911
Telepath Corporation
Transmission Agency of Northern Californ
Tri-Dam Project
Turlock Irrigation Distract
Union Pacific Railroad Company
Verizon Wireless (VAW) LLC-N CA/NV
Yolo Emergency Communications Agency
Yuba County Water Agency
Yuba, County of

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: 10/16/2019
Job Number: 190930COMSGE07

Administrative Information

Status: TEMPORARY (Operation from 11/04/2019 to 01/04/2020)
Call Sign: E190127
Licensee Code: INTELS
Licensee Name: Intelsat License LLC

Site Information

NAPA, CA

Venue Name:
Latitude (NAD 83): 38° 14' 41.6" N
Longitude (NAD 83): 122° 16' 45.8" W
Climate Zone: A
Rain Zone: 3
Ground Elevation (AMSL): 13.14 m / 43.1 ft

Link Information

Satellite Type: Geostationary
Mode: TO - Transmit-Only
Modulation: Digital
Satellite Arc: 50° W to 194° West Longitude
Azimuth Range: 101.2° to 258.4°
Corresponding Elevation Angles: 5.2° / 5.6°
Antenna Centerline (AGL): 7.32 m / 24.0 ft

Antenna Information

Transmit - FCC32

Manufacturer: Vertex
Model: 11.1 max
Gain / Diameter: 55.5 dBi / 11.1 m
3-dB / 15-dB Beamwidth: 0.28° / 0.59°

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

Maximum EIRP (dBW/4 kHz): 65.5
(dBW/MHz): 89.5

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

Frequency Information

Transmit 6.7 GHz

Emission / Frequency Range (MHz): N0N / 6639.27

Max Great Circle Coordination Distance: 564.8 km / 350.9 mi
Precipitation Scatter Contour Radius: 376.6 km / 234.0 mi

Coordination Values		NAPA, CA	
Licensee Name		Intelsat License LLC	
Latitude (NAD 83)		38° 14' 41.6" N	
Longitude (NAD 83)		122° 16' 45.8" W	
Ground Elevation (AMSL)		13.14 m / 43.1 ft	
Antenna Centerline (AGL)		7.32 m / 24.0 ft	
Antenna Model		Vertex 11.1 meter	
Antenna Mode		Transmit 6.7 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)		

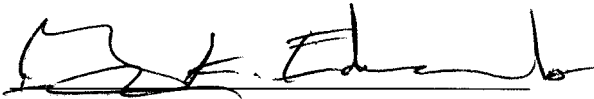
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.7 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	0.00	101.15	-10.00	218.44
5	0.00	96.17	-10.00	218.44
10	0.77	91.19	-10.00	177.22
15	0.51	86.20	-10.00	191.39
20	0.43	81.22	-10.00	198.66
25	0.45	76.24	-10.00	196.95
30	1.37	71.23	-10.00	151.16
35	2.18	66.23	-10.00	132.18
40	2.10	61.24	-10.00	133.64
45	2.99	56.22	-10.00	116.91
50	2.74	51.23	-10.00	121.38
55	3.58	46.21	-9.62	107.62
60	3.75	41.21	-8.38	109.49
65	4.59	36.20	-6.97	102.29
70	4.55	31.20	-5.35	108.83
75	4.27	26.21	-3.46	119.78
80	4.23	21.21	-1.16	129.35
85	4.05	16.23	1.74	142.63
90	3.83	11.27	5.70	167.81
95	3.01	6.56	11.58	214.69
100	3.37	2.16	23.66	564.82
105	3.04	4.29	16.19	315.38
110	3.06	8.06	9.34	203.56
115	3.62	11.43	5.55	171.80
120	3.54	15.14	2.50	156.28
125	4.39	18.11	0.55	134.05
130	5.01	21.09	-1.10	119.23
135	5.54	23.97	-2.49	108.55
140	5.25	27.27	-3.89	105.97
145	5.00	30.32	-5.04	103.98
150	4.65	33.21	-6.03	104.90
155	3.40	36.60	-7.09	120.46
160	2.56	39.34	-7.87	132.86
165	2.23	41.28	-8.39	136.09
170	2.25	42.47	-8.70	134.52
175	2.46	42.99	-8.83	131.19
180	3.04	42.65	-8.75	120.77
185	3.27	42.19	-8.63	117.06

Coordination Values		NAPA, CA	
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Antenna Mode		Transmit 6.7 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 6.7 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	3.61	41.15	-8.36	112.01
195	3.69	39.92	-8.03	111.79
200	3.78	38.25	-7.57	111.94
205	2.93	37.00	-7.20	128.43
210	2.66	34.85	-6.56	134.64
215	1.82	32.82	-5.90	156.28
220	1.04	30.44	-5.09	185.83
225	0.29	27.79	-4.10	235.72
230	0.00	24.63	-2.79	251.37
235	0.00	21.13	-1.12	260.13
240	0.00	17.51	0.92	271.49
245	0.00	13.82	3.48	286.81
250	0.00	10.05	6.94	309.34
255	0.00	6.57	11.56	394.23
260	0.24	5.59	13.32	548.19
265	0.43	8.35	8.96	294.99
270	0.51	12.62	4.47	258.29
275	0.44	17.32	1.03	246.27
280	0.40	22.15	-1.63	236.60
285	0.41	27.02	-3.79	225.09
290	0.80	31.88	-5.59	194.86
295	0.93	36.81	-7.15	181.24
300	0.74	41.79	-8.53	185.38
305	1.14	46.72	-9.74	159.42
310	0.70	51.73	-10.00	181.15
315	0.81	56.69	-10.00	174.71
320	0.89	61.66	-10.00	170.42
325	0.96	66.64	-10.00	164.86
330	0.84	71.62	-10.00	173.21
335	0.00	76.62	-10.00	218.44
340	0.00	81.60	-10.00	218.44
345	0.00	86.58	-10.00	218.44
350	0.00	91.55	-10.00	218.44
355	0.00	96.53	-10.00	218.44

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: October 16, 2019