

Prepared By

COMSEARCH

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

Prepared For

Intelsat License LLC
Nuevo, California

Temporary Transmit-Only Earth Station
Operation Dates: 01/29/2019 - 02/20/2019

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 November 29, 2018.

Company

ABC Holding Company Inc.
AT&T Mobility Spectrum LLC - Arizona
AT&T Mobility Spectrum LLC - N CA
AT&T Mobility Spectrum LLC - Southern CA
Air Sites 2000 LLC
Alltel Comm Southwest Holdings Inc.
Anaheim City, of
Arizona Public Service Company (APS)
Arizona, State Of
BNSF Railway Company
CCO SoCal I, LLC
California Internet Solutions, Inc.
California Internet, L.P.
California, State of
Calvary Chapel of Costa Mesa
Cellco Partnership - Southern California
City of Casa Grande
City of Los Angeles Dept Water & Power
City of Montebello
City of Yuma
Coachella Valley Water District
Coast Community College District
Commnet Four Corners, LLC
DM Ventures, Inc. dba Warp2Biz
DRS Global Enterprise Solutions, Inc.
Entravision Holdings, LLC
Federal Communication Commission
Fresno MSA Limited Partnership
Frontier California Inc.
Gila River Cellular General Partnership
Glendale City California
Global Telecom & Technology Americas, In
GovNET Licenses LLC
ION Media Los Angeles License, Inc.
Imperial Irrigation District
KTLA, LLC
Kern Ed Telecom Consortium
Kern, County of
LDM Engineering

Lightwave Broadband LLC
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
Maricopa County Wireless Systems
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 -San Diego
New Cingular Wireless PCS, LLC - SE Cal
Nextel License Holdings 4 Inc.
Nextel of California Inc.
Norris, Samuel O
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
Phoenix, City of
Pinal, County of
Qwest Corporation
Regional 3Cs
Riverside, County of
San Bernardino County of California
San Diego Broadband
San Diego Gas & Electric Company
San Diego, City of
San Diego, County of
Skyriver Communications
Southern California Edison Company
Southern California Gas Company
Southern California Regional Rail Auth.
Spectrum Link, Inc.
Sprint Spectrum L.P.
Sprint Telephony PCS, L.P.
Station Venture Operations, LP
T-Mobile License LLC
TV Microwaves Company
Table Top Telephone Company
Telink Networks SW, LLC
Time Warner Cable Pacific West LLC
Tucson Electric Power Company
Turn Wireless, LLC
Ultimate Internet Access, Inc
Union Pacific Railroad Company
University of California, HPWREN
Vectus, Inc
Verizon Wireless (VAW) LLC (Southern CA)
Verizon Wireless (VAW) LLC-N CA/NV
Verizon Wireless(VAW) LLC-AZ/CO/NM/NV/UT
Western Broadband Inc.
Wiline Spectrum Holdings LLC
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BNSF Railway Company
CCO SoCal I, LLC
California Internet Solutions, Inc.
California Internet, L.P
California, State of
Calvary Chapel of Costa Mesa
Cellco Partnership - Southern California
City of Casa Grande
City of Los Angeles Dept Water & Power
City of Montebello
City of Yuma
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Glendale City California
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Imperial Irrigation District
KTLA, LLC
Kern County Superintendent of Schools
Kern Ed Telecom Consortium
Kern, County of
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Lightwave Broadband LLC
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
Maricopa County Wireless Systems
Metropolitan Water Dist of So California
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New Cingular Wireless PCS LLC - N CAL
New Cingular Wireless PCS LLC -San Diego
New Cingular Wireless PCS, LLC - SE Cal

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Qwest Corporation
Regional 3Cs
Riverside, County of
San Bernardino County of California
San Diego Broadband
San Diego Gas & Electric Company
San Diego, City of
San Diego, County of
Skyriver Communications
Southern California Edison Company
Southern California Gas Company
Southern California Regional Rail Auth.
Sprint Spectrum L.P.
Station Venture Operations, LP
T-Mobile License LLC
TV Microwaves Company
Table Top Telephone Company
Telink Networks SW, LLC
Time Warner Cable Pacific West LLC
Tucson Electric Power Company
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Union Pacific Railroad Company
University of California, HPWREN
Verizon Wireless (VAW) LLC (Southern CA)
Verizon Wireless (VAW) LLC-N CA/NV
Verizon Wireless(VAW) LLC-AZ/CO/NM/NV/UT
West Covina, City of
Western Broadband Inc.
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
(703)726-5500 <http://www.comsearch.com>

Date: 11/29/2018
Job Number: 181129COMSGE08

Administrative Information

Status: TEMPORARY (Operation from 01/29/2019 to 02/20/2019)
Call Sign: TEMP02
Licensee Code: INTELS
Licensee Name: Intelsat License LLC

Site Information

NUEVO, CA
Venue Name
Latitude (NAD 83): 33° 47' 43.6" N
Longitude (NAD 83): 117° 5' 20.4" W
Climate Zone: A
Rain Zone: 4
Ground Elevation (AMSL): 566.62 m / 1859.0 ft

Link Information

Satellite Type: Geostationary
Mode: TO - Transmit-Only
Modulation: Digital
Satellite Arc: 45° W to 190° West Longitude
Azimuth Range: 100.2° to 260.3°
Corresponding Elevation Angles: 6.2° / 5.5°
Antenna Centerline (AGL): 7.32 m / 24.0 ft

Antenna Information

Transmit - FCC32
Manufacturer: TIW
Model: 11.1 meter
Gain / Diameter: 55.5 dBi / 11.1 m
3-dB / 15-dB Beamwidth: 0.29° / 0.54°

Max Available RF Power (dBW/4 kHz): 8.6
(dBW/MHz): 32.6

Maximum EIRP (dBW/4 kHz): 64.1
(dBW/MHz): 88.1

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
850KFXD / 6423.496

Max Great Circle Coordination Distance: 536.2 km / 333.1 mi
Precipitation Scatter Contour Radius: 321.4 km / 199.7 mi

Coordination Values		NUEVO, CA	
Licensee Name		Intelsat License LLC	
Latitude (NAD 83)		33° 47' 43.6" N	
Longitude (NAD 83)		117° 5' 20.4" W	
Ground Elevation (AMSL)		566.62 m / 1859.0 ft	
Antenna Centerline (AGL)		7.32 m / 24.0 ft	
Antenna Model		TIW 11.1 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	8.6 (dBW/4 kHz)		

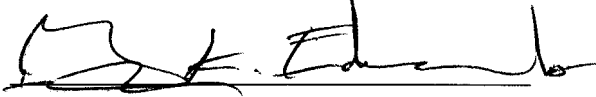
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	0.91	99.68	-10.00	160.90
5	2.23	95.18	-10.00	125.83
10	1.88	90.19	-10.00	133.16
15	2.42	85.20	-10.00	122.25
20	2.49	80.21	-10.00	120.85
25	2.56	75.22	-10.00	119.49
30	3.50	70.22	-10.00	102.07
35	3.34	65.23	-10.00	105.02
40	3.36	60.23	-10.00	104.68
45	3.28	55.24	-10.00	106.09
50	2.88	50.27	-10.00	113.58
55	2.50	45.31	-9.40	122.87
60	2.77	40.31	-8.14	122.67
65	3.44	35.29	-6.69	115.99
70	3.10	30.33	-5.05	128.10
75	3.19	25.36	-3.10	133.79
80	3.76	20.33	-0.70	132.86
85	3.33	15.45	2.28	152.87
90	3.39	10.56	6.41	174.12
95	2.51	6.34	11.94	220.14
100	2.99	3.18	19.45	491.65
105	3.63	5.38	13.72	205.53
110	3.84	9.29	7.80	171.48
115	3.70	13.36	3.86	152.77
120	3.87	17.17	1.13	137.08
125	3.84	21.02	-1.07	130.12
130	4.49	24.32	-2.65	114.61
135	3.88	28.30	-4.29	117.10
140	4.24	31.47	-5.45	107.49
145	4.11	34.76	-6.53	105.27
150	4.48	37.41	-7.32	100.00
155	4.67	39.84	-8.01	100.00
160	4.09	42.53	-8.72	100.00
165	4.55	43.90	-9.06	100.00
170	4.85	44.86	-9.30	100.00
175	5.79	44.68	-9.25	100.00
180	6.19	44.52	-9.21	100.00
185	6.91	43.57	-8.98	100.00

Coordination Values	NUEVO, CA	
Licensee Name	Intelsat License LLC	
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Ground Elevation (AMSL)	566.62 m / 1859.0 ft	
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Antenna Model	TIW 11.1 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	8.6 (dBW/4 kHz)	

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	7.27	42.53	-8.72	100.00
195	6.99	41.64	-8.49	100.00
200	6.27	40.64	-8.22	100.00
205	5.71	38.99	-7.77	100.00
210	5.71	36.45	-7.04	100.00
215	6.70	32.84	-5.91	100.00
220	7.49	29.16	-4.62	100.00
225	7.03	26.16	-3.44	100.00
230	5.65	23.57	-2.31	102.80
235	6.10	19.58	-0.30	106.16
240	5.73	16.02	1.88	118.62
245	5.59	12.21	4.83	131.75
250	5.18	8.50	8.77	152.31
255	4.95	4.62	15.38	193.71
260	4.51	1.01	31.92	536.17
265	4.74	4.76	15.05	195.22
270	4.38	9.77	7.26	156.75
275	4.51	14.74	2.79	134.59
280	4.14	19.75	-0.39	128.11
285	3.19	24.80	-2.86	133.33
290	2.77	29.82	-4.86	133.59
295	1.04	34.95	-6.59	172.46
300	0.82	39.93	-8.03	176.75
305	0.00	44.97	-9.32	215.43
310	0.00	49.93	-10.00	212.66
315	0.00	54.89	-10.00	212.66
320	0.00	59.86	-10.00	212.66
325	0.00	64.83	-10.00	212.66
330	0.00	69.80	-10.00	212.66
335	0.00	74.78	-10.00	212.66
340	0.00	79.75	-10.00	212.66
345	0.00	84.73	-10.00	212.66
350	0.00	89.71	-10.00	212.66
355	0.00	94.68	-10.00	212.66

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: December 17, 2018