

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  
Wisprenn  
ABC Holding Company Inc.

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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 County Superintendent of Schools  
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

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Norris, Samuel O  
Northrop Grumman Systems Corp.  
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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.  
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  
Turn Wireless, LLC  
Ultimate Internet Access, Inc  
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

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### Administrative Information

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

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### 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

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### 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

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### 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%

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### 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

<b>Coordination Values</b>		<b>NUEVO, CA</b>	
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)		

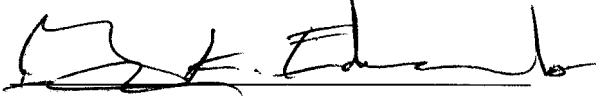
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	0.91	99.68	-10.00	160.90
5	2.23	95.18	-10.00	125.83
10	1.88	90.19	-10.00	133.16
15	2.42	85.20	-10.00	122.25
20	2.49	80.21	-10.00	120.85
25	2.56	75.22	-10.00	119.49
30	3.50	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

<b>Coordination Values</b>	<b>NUEVO, CA</b>	
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)
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