

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: 04/15/2017 - 05/15/2017

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 March 1, 2017.

Company

ABC Holding Company Inc.  
AC BidCO LLC  
AT&T Corp.  
AT&T Mobility Spectrum LLC - Arizona  
AT&T Mobility Spectrum LLC - Southern CA  
AirSites2000, 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, 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  
Fisher Wireless Services, Inc.  
Fresno MSA Limited Partnership  
Gila River Cellular General Partnership  
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  
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  
MHO Networks  
MOBILE RELAY ASSOCIATES INC  
Maricopa County Wireless Systems  
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  
New Cingular Wireless PCS LLC -San Diego  
Nextel License Holdings 4 Inc.  
Nextel of California Inc.  
Norris, Samuel O  
Northrop Grumman Systems Corp.  
Olympic Wireless, LLC  
Orange, County of, CA  
Pacific Bell Tel Com dba AT&T California  
Pacific Lightwave Inc  
Phoenix, City of  
Pinal, County of  
QUALCOMM INC.  
Qwest Corporation  
Regional 3Cs  
Riverside, County of  
San Bernardino County of California  
San Diego Broadband  
San Diego County Water Authority  
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.  
SpectrumLink  
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 California 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.  
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: 03/01/2017  
Job Number: 170301COMSGE04

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### Administrative Information

Status ENGINEER PROPOSAL  
Call Sign TEMP05  
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 Analog and Digital  
Satellite Arc 45° W to 170° West Longitude  
Azimuth Range 100.2° to 247.2°  
Corresponding Elevation Angles 6.2° / 22.0°  
Antenna Centerline (AGL) 7.32 m / 24.0 ft

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### Antenna Information

#### Transmit - FCC32

Manufacturer Vertex  
Model 11 KPC  
Gain / Diameter 55.5 dBi / 11.0 m  
3-dB / 15-dB Beamwidth 0.29° / 0.54°

Max Available RF Power (dBW/4 kHz) 10.7  
(dBW/MHz) 34.7

Maximum EIRP (dBW/4 kHz) 66.2  
(dBW/MHz) 90.2

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 / 6173.7 - 6176.3

Max Great Circle Coordination Distance 515.7 km / 320.4 mi  
Precipitation Scatter Contour Radius 381.6 km / 237.1 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		Vertex 11 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	10.7 (dBW/4 kHz)		

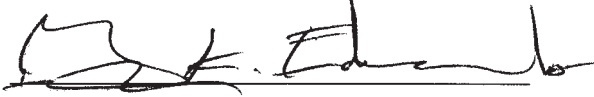
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	0.91	100.15	-10.00	172.39
5	2.23	95.18	-10.00	133.74
10	1.88	90.19	-10.00	140.02
15	2.42	85.20	-10.00	130.20
20	2.49	80.21	-10.00	128.82
25	2.56	75.22	-10.00	127.47
30	3.50	70.22	-10.00	110.23
35	3.34	65.23	-10.00	113.16
40	3.36	60.23	-10.00	112.81
45	3.28	55.24	-10.00	114.21
50	2.88	50.27	-10.00	121.63
55	2.50	45.31	-9.40	130.89
60	2.77	40.31	-8.14	130.54
65	3.44	35.29	-6.69	123.71
70	3.10	30.33	-5.05	134.68
75	3.19	25.36	-3.10	140.91
80	3.76	20.33	-0.70	140.20
85	3.33	15.45	2.28	163.29
90	3.39	10.56	6.41	185.04
95	2.51	6.34	11.94	232.12
100	2.99	3.18	19.45	515.71
105	3.63	5.38	13.72	217.20
110	3.84	9.29	7.80	182.70
115	3.70	13.36	3.86	163.23
120	3.87	17.17	1.13	146.35
125	3.84	21.02	-1.07	137.23
130	4.49	24.32	-2.65	122.77
135	3.88	28.30	-4.29	125.06
140	4.24	31.47	-5.45	115.37
145	4.11	34.76	-6.53	113.04
150	4.48	37.41	-7.32	105.07
155	4.67	39.84	-8.01	100.00
160	4.09	42.53	-8.72	105.16
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>	
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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	10.7 (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	111.03
235	6.10	19.95	-0.50	113.79
240	5.73	17.76	0.76	122.64
245	5.59	16.57	1.52	126.97
250	5.18	17.07	1.20	129.68
255	4.95	18.72	0.19	128.04
260	4.51	21.57	-1.35	127.60
265	4.74	24.62	-2.78	118.93
270	4.38	28.54	-4.39	117.44
275	4.51	32.48	-5.79	110.32
280	4.14	36.88	-7.17	110.23
285	3.19	41.60	-8.48	121.57
290	2.77	46.16	-9.61	125.13
295	1.04	51.16	-10.00	164.59
300	0.82	55.70	-10.00	177.36
305	0.00	60.40	-10.00	221.42
310	0.00	64.94	-10.00	221.42
315	0.00	69.50	-10.00	221.42
320	0.00	74.10	-10.00	221.42
325	0.00	78.71	-10.00	221.42
330	0.00	83.34	-10.00	221.42
335	0.00	87.97	-10.00	221.42
340	0.00	92.60	-10.00	221.42
345	0.00	97.24	-10.00	221.42
350	0.00	101.86	-10.00	221.42
355	0.00	105.10	-10.00	221.42

## 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  
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Ashburn, VA 20147

DATED: March 16, 2017