

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: 12/20/2016 - 01/04/2017

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 October 26, 2016.

Company

ABC Holding Company Inc.
AC BidCO LLC
AT&T Corp.
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, 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.
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 Technical Services
White, Fred K

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: 10/25/2016
Job Number: 161026COMSGE03

Administrative Information

Status: TEMPORARY (Operation from 12/20/2016 to 01/04/2017)
Call Sign: TEMP01
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 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

Antenna Information

Transmit - FCC32

Manufacturer: Vertex
Model: 11 KPC
Gain / Diameter: 55.5 dBi / 11.0 m
3-dB / 15-dB Beamwidth: 0.30° / 0.50°

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%

Frequency Information

Transmit 6.1 GHz

Emission / Frequency Range (MHz): 850KFXD / 6422.5 - 6424.5

Max Great Circle Coordination Distance: 515.7 km / 320.4 mi
Precipitation Scatter Contour Radius: 381.6 km / 237.1 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		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

Coordination Values	NUEVO, CA	
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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)
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
19700 Janelia Farm Boulevard
Ashburn, VA 20147

DATED: December 02, 2016