

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: 01/22/2014 - 04/22/2014

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 19, 2013.

Company

ABC Holding Company Inc.  
ANAHEIM CITY, COMMUNICATIONS DIVISION  
AT&T COMMUNICATIONS OF CALIFORNIA, INC.  
AT&T COMMUNICATIONS OF MOUNTAIN STATES  
AT&T California  
AirSites2000, LLC  
Airband Communications Inc  
Arizona Public Service Company (APS)  
Arizona, State Of Dept Of Public Safety  
BNSF Railway Company  
CCO SoCal I, LLC  
CLARK, COUNTY OF  
CNG Communications, Inc.  
COAST COMMUNITY COLLEGE DISTRICT  
California, State of  
Calvary Chapel of Costa Mesa  
Cellco Partnership - California  
Chevron USA Inc.  
Citizens Telecomm of the Golden State  
Citizens Telecommunications of CA Inc.  
Citizens Utilities Rural Company, Inc.  
City Of Los Angeles, Dept Water & Power  
City of Yuma  
Coachella Valley Water District  
DRS Technical Services  
Ducor Telephone Company  
Entravision Holdings, LLC  
Federal Communications Commission  
Freeport-McMoRan Oil & Gas LLC  
Fresno MSA Limited Partnership  
Frontier Communications of the Southwest

Company (Continued)

GTE Mobilnet of California LTD Partnersh  
Gila Electronics of Yuma, Inc  
ION MEDIA LOS ANGELES LICENSE, INC.  
KERN COUNTY SUPERINTENDENT OF SCHOOLS  
KERN ED TELECOM CONSORTIUM  
KTLA, LLC  
Kern, County of  
LOS ANGELES UNIFIED SCHOOL DISTRICT  
Los Angeles City Info Technology Agency  
Los Angeles County Dept of Public Works  
Los Angeles County FCC Licensing Section  
Los Angeles SMSA Ltd. Partnership  
MHO Networks  
MOBILE RELAY ASSOCIATES INC  
MONTEBELLO CITY CALIFORNIA  
Metropolitan Water Dist of So California  
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.  
Nextweb, Inc.  
OCCIDENTAL OF ELK HILLS INC  
ORANGE, COUNTY OF, CA  
Pacific Gas and Electric Company  
Ponderosa Telephone Company  
QUALCOMM INC.  
QWEST CORPORATION  
Regents of the University of California  
Regional 3Cs  
Riverside, County of  
SAN DIEGO, CITY OF  
San Bernardino County of California  
San Diego County  
San Diego County Water Authority  
San Diego Gas & Electric Company  
Santa Barbara Cellular Systems, Ltd.  
Santa Barbara, County of  
Skyriver Communications  
Southern California Edison Company  
Southern California Gas Company  
Southern California Regional Rail Auth.  
Sparkplug Southwest, LLC  
Sprint Spectrum L.P  
Sprint Telephony PCS, L.P.  
T-Mobile License LLC  
TV MICROWAVES CO  
Telink Networks SW, LLC  
Turn Wireless, LLC  
Ultimate Internet Access, Inc.  
Union Pacific Railroad Company  
University of California,HPWREN

Company (Continued)

Ventura, County of  
Verizon California Inc.  
Verizon Wireless (VAW) LLC (CA)  
Verizon Wireless(VAW) LLC-AZ/CO/NM/NV/UT  
Vintage Production California LLC  
WWC License L.L.C. - California  
WWC License LLC - AZ/CO/NM/NV/UT  
Western Technical Services

There are no unresolved interference objections with the stations contained in these applications.

The following section presents the data pertinent to frequency coordination of the proposed 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: 12/05/2013  
Job Number: 131119COMSJC06

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### Administrative Information

Status: TEMPORARY (Operation from 01/22/2014 to 04/22/2014)  
Call Sign: TEMP04  
Licensee Code: INTELS  
Licensee Name: Intelsat License LLC

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### Site Information

**NUEVO, CALIFORNIA**  
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: Low Earth Orbit  
Mode: TO - Transmit-Only  
Modulation: Analog and Digital  
Minimum Elevation Angle: 5.0°  
Azimuth Range: 0.0° to 360°  
Antenna Centerline (AGL): 7.32 m / 24.0 ft

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### Antenna Information

**Transmit**  
Manufacturer: TIW  
Model: 11.0 Meter  
Gain / Diameter: 55.5 dBi / 11.0 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  
(dBW): 87.4

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): 850KF2D / 6173.7  
850KF2D / 6176.3

Max Great Circle Coordination Distance: 347.9 km / 216.2 mi  
Precipitation Scatter Contour Radius: 274.6 km / 170.6 mi

# COMSEARCH

## Earth Station Data Sheet

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### 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 11.0 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	1.10	76.42	-10.00	256.40
5	2.21	72.41	-10.00	256.40
10	1.96	68.21	-10.00	256.40
15	2.70	64.35	-10.00	256.40
20	2.63	60.34	-10.00	256.40
25	2.53	56.42	-10.00	256.40
30	3.49	53.12	-10.00	256.40
35	3.37	49.49	-10.00	256.40
40	3.30	46.08	-10.00	256.40
45	3.29	42.94	-10.00	256.40
50	2.99	39.88	-10.00	256.40
55	2.53	37.01	-10.00	256.40
60	2.78	35.18	-10.00	256.40
65	3.42	34.29	-10.00	256.40
70	3.17	33.18	-10.00	256.40
75	3.22	33.01	-7.96	269.20
80	3.72	33.95	-4.20	292.90
85	3.36	34.69	0.77	324.20
90	3.38	36.37	4.53	347.90
95	2.49	37.81	4.53	347.90
100	2.99	40.84	4.53	347.90
105	3.50	44.15	4.53	347.90
110	3.76	47.52	4.53	347.90
115	3.70	50.90	4.53	347.90
120	3.92	54.61	4.53	347.90
125	3.84	58.30	4.53	347.90
130	4.39	62.35	4.53	347.90
135	3.90	66.11	4.53	347.90
140	4.15	70.18	4.53	347.90
145	4.15	74.23	4.53	347.90
150	3.50	78.23	4.53	347.90
155	3.92	82.42	4.53	347.90
160	4.24	86.58	4.53	347.90
165	4.67	90.72	4.53	347.90
170	4.76	94.84	4.53	347.90
175	5.29	98.89	4.53	347.90
180	5.93	102.84	4.53	347.90

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## Earth Station Data Sheet

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### Coordination Values

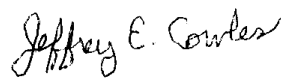
### NUEVO, CA

Licensee Name Intelsat License LLC  
Latitude (NAD 83) 33° 47' 43.6" N  
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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)
185	6.64	106.67	4.53	347.90
190	6.27	110.66	4.53	347.90
195	6.62	114.40	4.53	347.90
200	6.08	118.36	4.53	347.90
205	5.57	122.26	4.53	347.90
210	5.90	125.67	4.53	347.90
215	6.19	128.89	4.53	347.90
220	7.25	131.37	4.53	347.90
225	6.91	134.47	4.53	347.90
230	5.70	138.01	4.53	347.90
235	6.01	140.03	4.53	347.90
240	5.66	142.20	4.53	347.90
245	5.56	143.65	4.53	347.90
250	5.18	144.83	4.53	347.90
255	4.53	145.68	4.53	347.90
260	4.64	145.14	4.53	347.90
265	4.36	144.37	4.53	347.90
270	4.36	142.76	4.53	347.90
275	4.44	140.59	0.77	324.20
280	3.74	138.60	-4.20	292.90
285	3.10	136.12	-7.96	269.20
290	2.46	133.26	-10.00	256.40
295	0.80	130.61	-10.00	256.40
300	0.61	126.91	-10.00	256.40
305	0.00	123.21	-10.00	256.40
310	0.00	119.14	-10.00	256.40
315	0.00	114.99	-10.00	256.40
320	0.00	110.78	-10.00	256.40
325	0.00	106.52	-10.00	256.40
330	0.00	102.23	-10.00	256.40
335	0.00	97.91	-10.00	256.40
340	0.00	93.58	-10.00	256.40
345	0.00	89.24	-10.00	256.40
350	0.00	84.90	-10.00	256.40
355	0.00	80.57	-10.00	256.40

## 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.



Jeffrey E. Cowles  
Engineer III, Telecommunications  
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DATED: December 5, 2013