

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: 09/13/2014 - 01/13/2015

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 July 25, 2014.

Company

ABC Holding Company Inc.  
AT&T COMMUNICATIONS OF CALIFORNIA, INC.  
AT&T COMMUNICATIONS OF MOUNTAIN STATES  
AT&T California  
Aerioconnect, Inc.  
AirSites2000, LLC  
Airband Communications Inc  
Anaheim City, of  
Arizona Public Service Company (APS)  
Arizona, State Of  
BFI Licenses, LLC  
BNSF Railway Company  
CCO SoCal I, LLC  
CNG Communications, Inc.  
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  
Clark, County of  
Coachella Valley Water District  
Coast Community College District  
Cohen, Elena  
Conterra Ultra Broadband, LLC  
CP Communications, LLC  
DRS Technical Services  
Ducor Telephone Company  
Entravision Holdings, LLC

Company (Continued)

Federal Communications Commission  
Freeport-McMoRan Oil & Gas LLC  
Fresno MSA Limited Partnership  
Frontier Communications of the Southwest  
Fundamental Broadcasting LLC  
Gila Electronics of Yuma, Inc  
Glendale, City of  
ION Media Los Angeles License, Inc.  
KERN COUNTY SUPERINTENDENT OF SCHOOLS  
Kern Ed Telecom Consortium  
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 County Metro Transit Auth  
Los Angeles SMSA Ltd. Partnership  
MHO Networks  
MOBILE RELAY ASSOCIATES INC  
MONTEBELLO CITY CALIFORNIA  
Metropolitan Water Dist of So California  
Metrosat Communications 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  
Nextel License Holdings 4 Inc.  
Nextel of California Inc.  
Nextweb, Inc  
Norris, Samuel O  
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 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  
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

Company (Continued)

Sprint Spectrum L.P.  
Sprint Telephony PCS, L.P.  
T-Mobile License LLC  
TV MICROWAVES CO  
Telink Networks SW, LLC  
Time Warner Cable LLC  
Turn Wireless, LLC  
Ultimate Internet Access, Inc.  
Union Pacific Railroad Company  
University of California, HPWREN  
Ventura, County of  
Vintage Production California LLC  
WWC License L.L.C. - California  
WWC License LLC - AZ/CO/NM/NV/UT  
Western Technical Services  
White, Fred K  
3G Wireless, LLC  
AERIAL VIDEO SYSTEMS  
Alascom Inc  
Ascent Media Network Services, LLC  
Bellsouth Telecommunications, Inc.  
Blackhawk Broadcasting LLC  
Board of Trustees for San Diego Univ  
Borgeson, Tom R.  
Broadcast Sports Inc.  
CALIPATRIA BROADCASTING COMPANY LLC  
CBS Broadcasting Inc  
Carolina Telephone and Telegraph Co  
Casper, John  
CenturyTel of the Southwest, Inc.  
Channel 51 of San Diego, Inc.  
Chicago Comnet Corp  
Cincinnati Bell Wireless LLC  
Citywide News Network, Inc.  
Cocola Broadcasting Companies LLC  
County Service Area 70 - TV 5  
Cowboys Stadium LP  
DCI II, INC.  
DIOCESE OF FRESNO EDUCATION CORP.  
Direct Broadcast Services, Inc.  
ELLIS COMMUNICATIONS KDOC LICENSEE, LLC  
Fox Television Stations, Inc.  
GOODYEAR TIRE AND RUBBER COMPANY  
GSN New, Inc  
GULF-CALIFORNIA BROADCAST COMPANY  
Global Microwave Systems Inc  
GovNET Licenses, LLC  
HF Enterprises, Inc  
Hallco Unlimited, Inc.  
Hawaiian Telcom, Inc.  
Heiden, William

Company (Continued)

Illinois Bell Telephone Company  
Indiana Bell Telephone Company  
Information & Display Systems, Inc.  
Information Super Station, LLC  
International Communications Group, Inc.  
KCETLink  
KFTV License Partnership GP  
KMEX License Partnership GP  
KRCA License LLC  
KSBY COMMUNICATIONS, LLC  
KSWB, LLC  
KTLA, LLC  
KUVI LICENSE PARTNERSHIP, G.P.  
KVMD LICENSEE CO, LLC  
Kentucky RSA #3 Cellular General Partner  
Kentucky RSA #4 Cellular General Partner  
LOS ANGELES TELEVISION STATION KCAL LLC  
MERCURY COMMUNICATIONS  
MIDWEST TELEVISION INC.  
Metro Networks Communications, Inc.  
Michigan Bell Telephone Company  
Moreen, Steven K  
NBC Telemundo License LLC  
NEW ENGLAND DIGITAL DISTRIBUTION, INC.  
NEW ENGLAND SATELLITE SYSTEMS INC  
NEXSTAR BROADCASTING, INC.  
NPG of California, LLC  
NRJ TV LA License Co, LLC  
NSM Surveillance  
Navajo Communications Company  
NorthWest Suburbs Community Access Corp  
OTA Broadcasting (PSP), LLC  
Ohio Bell Telephone Company  
On Scene Video Production  
Onboard Images  
Pacific Television Center  
Penn Service Microwave Co., Inc.  
Plateau Telecommunications, Inc.  
Plum TV, LLC  
Production & Satellite Services, Inc.  
Public Television Communications Center  
QUICK LINK CONNECTIONS INC  
Qwest Corporation  
RCC Minnesota Inc. - MN NE ND SD  
REMOTE FACILITIES CONSULTING SERVICES  
RF Central, LLC  
RF Film, Inc  
RF Technology, LLC  
Radiofone, Inc.  
Randy Hermes Production  
Regulus Media Services, Inc.  
Remote Broadcasts, Inc.

Company (Continued)

San Bernardino Community Col Dis KVCR-TV  
San Bernardino County of California  
Scripps Media, Inc. - KERO TV  
Scripps Media, Inc. - KGTV  
Sinclair Bakersfield Licensee, LLC  
Southwestern Bell Telephone L.P.  
Speedshotz, Inc  
Station Venture Operations, LP  
Telefutura Los Angeles LLC - KFTR-TV  
Total RF Marketing Inc  
Trinity Broadcasting Network Inc  
Trinity Christian Center of Santa Ana  
UNIVISION BAKERSFIELD LLC  
Unimas Bakersfield  
Unisat, Inc.  
United Telephone - Southeast  
VERIZON SOUTH INC.  
Valley Public Television, Inc.  
Verizon California Inc.  
Verizon Maryland, Inc.  
Verizon New England Inc.  
Verizon New Jersey, Inc.  
Verizon New York, Inc.  
Verizon North Inc.  
Verizon Northwest Inc.  
Verizon Pennsylvania, Inc.  
Verizon Virginia, Inc.  
Verizon Washington DC, Inc.  
Verizon Wireless (VAW) LLC (CA)  
Verizon Wireless(VAW) LLC-AZ/CO/NM/NV/UT  
Village Video Productions Inc  
Vyvx, LLC  
Westar Satellite Services LP  
Western Technical Services  
Wexler Video, Inc.  
Winged Vision Inc  
Wisconsin Bell, Inc.  
Wolfe Air Aviation  
Area Energy LLC  
Boeing Company  
CBS Communication Services Inc  
CITY OF POMONA COMMUNICATIONS  
Central Arizona Water Conservation Distr  
El Paso Natural Gas Company, LLC  
Fisher Wireless Services, Inc.  
GULF-CALIFORNIA BROADCAST COMPANY  
Gogo LLC  
HARRIS CORPORATION  
INCOMM DIVISION CHURCH OF SCIENTOLOGY  
Imperial Irrigation District  
Loop Inc.

Company (Continued)

Microwave Video Systems, LLC  
Mile High Inc  
PACIFIC PIPELINE SYSTEM LLC  
Palomar Observatory California Institute  
Sprint PCS  
Sprint Spectrum LP DBA Sprint PCS  
Texas A&M University, Athletic Department  
VENOCO, INC.

Society of Broadcast Engineers:

Arizona – Entire State

California – Fresno  
Sacramento  
Monterrey  
San Diego  
San Francisco/San Jose  
Southern California

Nevada – Reno  
Southern

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  
(703)726-5500 <http://www.comsearch.com>

Date: 08/08/2014  
Job Number: 140725COMSJC01

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### Administrative Information

Status: TEMPORARY (Operation from 09/13/2014 to 01/13/2015)  
Call Sign: TEMP01  
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: Digital & Analog  
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): 850KFXD / 6415.00  
850KFXD / 6425.98

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

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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  
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
185	6.64	106.67	4.53	347.90



# COMSEARCH

## Earth Station Data Sheet

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### Coordination Values

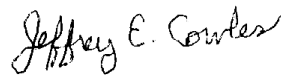
### NUEVO, CA

Licensee Name Intelsat License LLC  
Latitude (NAD 83) 33° 47' 43.6" N  
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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	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  
COMSEARCH  
19700 Janelia Farm Blvd.  
Ashburn, Virginia 20147

DATED: August 8, 2014