

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: 01/25/2013 - 03/01/2013

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 30, 2012.

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
Fresno MSA Limited Partnership
Frontier Communications of the Southwest

Company (Continued)

GTE Mobilnet of California LTD Partnersh
Gila Electronics of Yuma, Inc
Goff, Wayne C.
KERN ED TELECOM CONSORTIUM
KTLA INC
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
Plains Exploration & Production 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 Gas & Electric Company
Santa Barbara Cellular Systems, Ltd.
Skyriver Communications
Southern California Edison Company
Southern California Gas Company
Southern California Regional Rail Auth.
Sparkplug Southwest, LLC
Sprint Spectrum, LP
T-Mobile License LLC
TV MICROWAVES CO
Telink Networks SW, LLC
Turn Wireless, LLC
University of California,HPWREN
Ventura, County of
Verizon California Inc.
Verizon Wireless (VAW) LLC (CA)
Verizon Wireless(VAW) LLC-AZ/CO/NM/NV/UT

Company (Continued)

Vintage Production California LLC
WWC License L.L.C. - California
WWC License LLC - AZ/CO/NM/NV/UT
Western Pacific Mobile Microwave
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: 12/21/2012
Job Number: 121130COMSJC02

Administrative Information

Status	TEMPORARY (Operation from 01/25/2013 to 03/01/2013)
Call Sign	TEMP03
Licensee Code	INTELS
Licensee Name	Intelsat License LLC

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

Link Information

Satellite Type	Low Earth Orbit
Mode	TO - Transmit-Only
Modulation	Digital
Minimum Elevation Angle	5.0°
Azimuth Range	0.0° to 360°
Antenna Centerline (AGL)	7.32 m / 24.0 ft

Antenna Information	Transmit
Manufacturer	TIW
Model	11 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%

Frequency Information **Transmit 6.1 GHz**

Emission / Frequency Range (MHz)	850KF2D / 5925.5
	850KF2D / 6422.5
	850KF2D / 6424.5

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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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 TIW 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 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

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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)
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
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DATED: December 21, 2012