

Prepared By

COMSEARCH

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703)726-5500 <http://www.comsearch.com>

Prepared For

**Intelsat License LLC
FILLMORE, CALIFORNIA**

Temporary Transmit/Receive Earth Station
Operation Dates: 10/01/2011 - 01/01/2012

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 August 11, 2011.

Company

ANAHEIM CITY, COMMUNICATIONS DIVISION
AT&T California
AirSites2000, LLC
American Tower, LLC
BNSF Railway Company
Bishop Union High School
CNG Communications, Inc.
COAST COMMUNITY COLLEGE DISTRICT
California, State of
Celco Partnership - California
Chevron USA Inc.
Coachella Valley Water District
Cox Communications - San Diego Mkt
Ducor Telephone Company
Exxon Communications Company
FALCON CABLEVISION, A CALIFORNIA L.P.
Federal Communications Commission
Fresno MSA Limited Partnership
Fresno, County of
GTE Mobilnet of California LTD Partnersh
GTE Mobilnet of Santa Barbara LTD Ptnsh
Goff, Wayne C.
KERN COMMUNITY COLLEGE DISTRICT BAKERSFI
KERN COUNTY SUPERINTENDENT OF SCHOOLS
KERN ED TELECOM CONSORTIUM
KTLA INC
Kern, County of
Kings County Office of Education
LOS ANGELES CITY WATER & POWER
LOS ANGELES UNIFIED SCHOOL DISTRICT

Company (Continued)

Los Angeles City Info Technology Agency
Los Angeles County Dept of Public Works
Los Angeles County FCC Licensing Section
Los Angeles SMSA Ltd. Partnership
METROPOLITAN AREA NETWORKS, INC.
MONTEBELLO CITY CALIFORNIA
Metropolitan Water Dist of So California
NEXTEL OF CALIFORNIA INC
New Cingular Wireless PCS - Los Angeles
New Cingular Wireless PCS -PNW Region
New Cingular Wireless PCS LLC - N CAL
New Cingular Wireless PCS LLC -San Diego
New Cingular Wireless PCS, LLC (was WWC)
Nextweb Inc
OCCIDENTAL OF ELK HILLS INC
ORANGE, COUNTY OF, CA
Pacific Gas and Electric Company
Paramount Farming Company, LLC.
Plains Exploration & Production Company
QUALCOMM INC.
Regional 3Cs
Riverside, County of
SAN DIEGO COUNTY
SAN DIEGO, CITY OF
SAN LUIS OBISPO COUNTY
SKYRIVER COMMUNICATIONS INC
SOUTHERN CALIFORNIA REGIONAL RAIL AUTH.
San Bernardino County of California
San Diego Gas & Electric Company
Santa Barbara Cellular Systems, Ltd.
Southern California Edison Company
Southern California Gas Company
T-Mobile License LLC
TULARE, COUNTY OF
TV MICROWAVES CO
Turn Wireless, LLC
University of California,HPWREN
Ventura, County of
Verizon California Inc.
Verizon Wireless (VAW) LLC (CA)
Vintage Production California LLC
WWC License L.L.C. - California
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
(703)726-5500 <http://www.comsearch.com>

Date: 08/24/2011
Job Number: 110811COMSJC02

Administrative Information

Status: TEMPORARY (Operation from 10/01/2011 to 01/01/2012)
Call Sign: TEMP01
Licensee Code: INTELS
Licensee Name: Intelsat License LLC

Site Information

FILLMORE, CALIFORNIA
Venue Name
Latitude (NAD 83): 34° 24' 22.0" N
Longitude (NAD 83): 118° 53' 37.4" W
Climate Zone: A
Rain Zone: 4
Ground Elevation (AMSL): 313.94 m / 1030.0 ft

Link Information

Satellite Type: Low Earth Orbit
Mode: TR - Transmit-Receive
Modulation: Analog and Digital
Minimum Elevation Angle: 5.0°
Azimuth Range: 0.0° to 360°
Antenna Centerline (AGL): 8.23 m / 27.0 ft

Antenna Information

Manufacturer
Model
Gain / Diameter
3-dB / 15-dB Beamwidth

Receive

Scientific-Atlanta
10.3 Meter
50.5 dBi / 10.3 m
0.40° / 1.00°

Transmit

Scientific-Atlanta
10.3 Meter
53.8 dBi / 10.3 m
0.40° / 0.60°

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

10.9
34.2

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

64.7
88.0
88.0

Interference Objectives: Long Term -152.0 dBW/MHz 20%
Short Term -131.0 dBW/MHz 0.01%

-154.0 dBW/4 kHz 20%
-131.0 dBW/4 kHz 0.0025%

Frequency Information

Emission / Frequency Range (MHz)

Receive 4.0 GHz

180KFXD / 3947.5
180KFXD / 3952.5

Transmit 6.1 GHz

850KFXD / 6173.7
850KFXD / 6176.3

Max Great Circle Coordination Distance
Precipitation Scatter Contour Radius

465.6 km / 289.3 mi
265.3 km / 164.8 mi

347.9 km / 216.2 mi
325.4 km / 202.2 mi

COMSEARCH

Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703)726-5500 <http://www.comsearch.com>

Coordination Values	FILLMORE, CA		
Licensee Name	Intelsat License LLC		
Latitude (NAD 83)	34° 24' 22.0" N		
Longitude (NAD 83)	118° 53' 37.4" W		
Ground Elevation (AMSL)	313.94 m / 1030.0 ft		
Antenna Centerline (AGL)	8.23 m / 27.0 ft		
Antenna Model	Scientific-Atlanta 10.3 Meter		
Antenna Mode	Receive 4.0 GHz		Transmit 6.1 GHz
Interference Objectives:	Long Term	-152.0 dBW/MHz	20% -154.0 dBW/4 kHz
	Short Term	-131.0 dBW/MHz	0.01% -131.0 dBW/4 kHz
Max Available RF Power	10.9 (dBW/4 kHz) 0.0025%		

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 4.0 GHz		Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
0	9.46	76.90	-10.00	373.70	-10.00	256.40
5	9.82	73.29	-10.00	373.70	-10.00	256.40
10	11.85	70.32	-10.00	373.70	-10.00	256.40
15	10.92	66.54	-10.00	373.70	-10.00	256.40
20	12.90	64.07	-10.00	373.70	-10.00	256.40
25	13.86	61.47	-10.00	373.70	-10.00	256.40
30	11.04	56.88	-10.00	373.70	-10.00	256.40
35	11.06	53.98	-10.00	373.70	-10.00	256.40
40	11.15	51.35	-10.00	373.70	-10.00	256.40
45	12.08	49.66	-10.00	373.70	-10.00	256.40
50	12.02	47.53	-10.00	373.70	-10.00	256.40
55	12.03	45.81	-10.00	373.70	-10.00	256.40
60	11.89	44.32	-10.00	373.70	-10.00	256.40
65	10.11	41.64	-10.00	373.70	-10.00	256.40
70	10.13	41.15	-10.00	373.70	-10.00	256.40
75	10.10	41.10	-7.96	386.60	-7.96	269.20
80	8.88	40.38	-4.20	410.40	-4.20	292.90
85	8.89	41.39	0.77	441.80	0.77	324.20
90	6.31	40.55	4.53	456.60	4.53	347.90
95	6.30	42.57	4.53	456.60	4.53	347.90
100	6.30	44.99	4.53	456.60	4.53	347.90
105	6.32	47.74	4.53	456.60	4.53	347.90
110	5.84	50.44	4.53	456.60	4.53	347.90
115	3.99	52.69	4.53	456.60	4.53	347.90
120	2.01	55.33	4.53	456.60	4.53	347.90
125	1.94	59.11	4.53	456.60	4.53	347.90
130	2.44	63.20	4.53	456.60	4.53	347.90
135	2.70	67.25	4.53	456.60	4.53	347.90
140	2.67	71.27	4.53	456.60	4.53	347.90
145	2.73	75.36	4.53	456.60	4.53	347.90
150	2.63	79.46	4.53	456.60	4.53	347.90
155	3.07	83.64	4.53	456.60	4.53	347.90
160	2.85	87.77	4.53	456.60	4.53	347.90
165	3.41	91.91	4.53	456.60	4.53	347.90
170	3.29	96.04	4.53	456.60	4.53	347.90
175	3.00	100.19	4.53	456.60	4.53	347.90
180	2.53	104.38	4.53	456.60	4.53	347.90
185	2.35	108.51	4.53	456.60	4.53	347.90

COMSEARCH

Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147
 (703)726-5500 <http://www.comsearch.com>

Coordination Values		FILLMORE, CA			
Licensee Name		Intelsat License LLC			
Latitude (NAD 83)		34° 24' 22.0" N			
Longitude (NAD 83)		118° 53' 37.4" W			
Ground Elevation (AMSL)		313.94 m / 1030.0 ft			
Antenna Centerline (AGL)		8.23 m / 27.0 ft			
Antenna Model		Scientific-Atlanta 10.3 Meter			
Antenna Mode		Receive 4.0 GHz		Transmit 6.1 GHz	
Interference Objectives:	Long Term	-152.0 dBW/MHz	20%	-154.0 dBW/4 kHz	20%
	Short Term	-131.0 dBW/MHz	0.01%	-131.0 dBW/4 kHz	0.0025%
Max Available RF Power		10.9 (dBW/4 kHz)			

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 4.0 GHz		Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
190	2.29	112.57	4.53	456.60	4.53	347.90
195	0.78	117.05	4.53	456.60	4.53	347.90
200	0.26	121.23	4.53	456.60	4.53	347.90
205	1.27	124.72	4.53	456.60	4.53	347.90
210	0.97	128.61	4.53	456.60	4.53	347.90
215	0.87	132.26	4.53	456.60	4.53	347.90
220	0.00	136.21	4.53	456.60	4.53	347.90
225	0.00	139.42	4.53	456.60	4.53	347.90
230	0.00	142.31	4.53	456.60	4.53	347.90
235	0.00	144.80	4.53	456.60	4.53	347.90
240	0.00	146.79	4.53	456.60	4.53	347.90
245	0.00	148.21	4.53	456.60	4.53	347.90
250	0.00	148.95	4.53	456.60	4.53	347.90
255	0.00	148.97	4.53	456.60	4.53	347.90
260	0.00	148.28	4.53	456.60	4.53	347.90
265	0.00	146.92	4.53	456.60	4.53	347.90
270	0.00	144.96	4.53	465.60	4.53	347.90
275	1.12	141.62	0.77	441.80	0.77	324.20
280	1.30	138.71	-4.20	410.80	-4.20	292.90
285	2.87	134.60	-7.96	386.60	-7.96	269.20
290	4.19	130.57	-10.00	373.70	-10.00	256.40
295	4.03	127.29	-10.00	373.70	-10.00	256.40
300	4.42	123.56	-10.00	373.70	-10.00	256.40
305	3.80	120.15	-10.00	373.70	-10.00	256.40
310	3.10	116.58	-10.00	373.70	-10.00	256.40
315	2.76	112.74	-10.00	373.70	-10.00	256.40
320	3.32	108.58	-10.00	373.70	-10.00	256.40
325	4.76	104.28	-10.00	373.70	-10.00	256.40
330	5.94	100.11	-10.00	373.70	-10.00	256.40
335	7.80	95.98	-10.00	373.70	-10.00	256.40
340	8.26	92.08	-10.00	373.70	-10.00	256.40
345	9.32	88.23	-10.00	373.70	-10.00	256.40
350	9.66	84.45	-10.00	373.70	-10.00	256.40
355	9.64	80.68	-10.00	373.70	-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, Va. 20147

DATED: August 24, 2011