

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-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 24, 2014.

Company

AT&T California
AirSites2000, LLC
American Tower, LLC
Anaheim City, of
BNSF Railway Company
BFI Licenses LLC
Bishop Union High School
CCO SoCal I, LLC
California, State of
Calvary Chapel of Costa Mesa
Cellco Partnership - California
Chevron USA Inc.
City of Los Angeles Dept Water & Power
Coachella Valley Water District
Coast Community College District
Conterra Ultra Broadband, LLC
CP Communications, LLC
DRS Technical Services
Ducor Telephone Company
Exxon Communications Company
Federal Communications Commission
Freeport-McMoRan Oil & Gas LLC
Fresno MSA Limited Partnership
Fresno, County of
Fundamental Broadcasting LLC
GTE Mobilnet of California LTD Partnersh
GTE Mobilnet of Santa Barbara LTD Ptsh
Gila Electronics of Yuma, Inc
Glendale, City of
ION Media Los Angeles License, Inc.

Company (Continued)

KERN COMMUNITY COLLEGE DISTRICT BAKERSFI
KERN COUNTY SUPERINTENDENT OF SCHOOLS
Kern Ed Telecom Consortium
Kern, County of
Kings County Office of Education
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
Metrosat Communications Inc.
MHO Networks
MOBILE RELAY ASSOCIATES INC
MONTEBELLO CITY CALIFORNIA
Metropolitan Water Dist of So California
New Cingular Wireless PCS - Los Angeles
New Cingular Wireless PCS LLC - N CAL
New Cingular Wireless PCS LLC -San Diego
Nextel of California Inc.
Nextweb, Inc
Norris, Samuel O
Occidental of Elk Hills Inc.
Orange, County of, CA
Pacific Gas and Electric Company
Paramount Farming Company, LLC.
QUALCOMM INC.
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
San Luis Obispo, 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.
T-Mobile License LLC
TV MICROWAVES CO
Time Warner Cable LLC
Tulare, County of
Turn Wireless, LLC
Ultimate Internet Access, Inc.
University of California, HPWREN
Ventura, County of
Vintage Production California LLC

Company (Continued)

WWC License L.L.C. - California
Western Technical Services
White, Fred K
unWired Broadband, Inc
3G Wireless, LLC
ABC Holding Company Inc.
AERIAL VIDEO SYSTEMS
Alascom Inc
Ascent Media Network Services, LLC
Bellsouth Telecommunications, Inc.
Board of Trustees for San Diego Univ
Borgeson, Tom R.
Broadcast Sports Inc.
CBS Broadcasting Inc
CNG Communications, Inc.
Cohen, Elena
COWLES CALIFORNIA MEDIA COMPANY
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
Entravision Holdings, LLC
Fox Television Stations, Inc.
GOODYEAR TIRE AND RUBBER COMPANY
GSN New, Inc
GULF-CALIFORNIA BROADCAST COMPANY
Global Microwave Systems Inc
HF Enterprises, Inc
Hallco Unlimited, Inc.
Hawaiian Telcom, Inc.
Heiden, William
Illinois Bell Telephone Company
Indiana Bell Telephone Company
Information & Display Systems, Inc.
Information Super Station, LLC
International Communications Group, Inc.
KCETLink
KFSN Television, LLC
KFTV License Partnership GP
KMEX License Partnership GP
KMPH Licensee, LLC
KRCA License LLC

Company (Continued)

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
Raul & Consuelo Palazuelos
Regulus Media Services, Inc.
Remote Broadcasts, Inc.
San Bernardino Community Col Dis KVCR-TV
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 FRESNO LLC

Company (Continued)

Telefutura Los Angeles LLC - KFTR-TV
Total RF Marketing Inc
Trinity Broadcasting Network Inc
Trinity Christian Center of Santa Ana
UNA VEZ MAS SANTA MARIA LICENSE, LLC
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 Wireless (VAW) LLC (CA)
Verizon Washington DC, Inc.
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
AirSites2000, LLC
Area Energy LLC
BNSF Railway Company
Boeing Company
CBS Communication Services Inc
CCO SoCal I, LLC
CITY OF POMONA COMMUNICATIONS
El Paso Natural Gas Company, LLC
GULF-CALIFORNIA BROADCAST COMPANY
HARRIS CORPORATION
INCOMM DIVISION CHURCH OF SCIENTOLOGY
Imperial Irrigation District
Loop, Inc
Microwave Video Systems, LLC
Mile High Inc
PACIFIC PIPELINE SYSTEM LLC
Palomar Observatory California Institute
Sprint Telephony PCS, L.P.
Texas A&M University, Athletic Department
Union Pacific Railroad Company
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: 08/07/2014
Job Number: 140724COMSJC01

Administrative Information

Status TEMPORARY (Operation from 09/13/2014 to 01/13/2015)
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 TO - Transmit-Only
Modulation Digital
Minimum Elevation Angle 5.0°
Azimuth Range 0.0° to 360°
Antenna Centerline (AGL) 8.23 m / 27.0 ft

Antenna Information

Manufacturer Scientific-Atlanta
Model 10.3 Meter
Gain / Diameter 53.8 dBi / 10.3 m
3-dB / 15-dB Beamwidth 0.40° / 0.60°

Transmit

Max Available RF Power (dBW/4 kHz) 10.9
(dBW/MHz) 34.9

Maximum EIRP (dBW/4 kHz) 64.7
(dBW/MHz) 88.7
(dBW) 88.0

Interference Objectives: Long Term -154.0 dBW/4 kHz 20%
Short Term -131.0 dBW/4 kHz 0.0025%

Frequency Information

Emission / Frequency Range (MHz) 850KFXD / 6415.00
850KFXD / 6425.98

Transmit 6.1 GHz

Max Great Circle Coordination Distance 347.9 km / 216.2 mi
Precipitation Scatter Contour Radius 325.4 km / 202.2 mi

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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	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	10.9 (dBW/4 kHz)	

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	9.45	76.90	-10.00	256.40
5	9.81	73.28	-10.00	256.40
10	11.84	70.32	-10.00	256.40
15	10.91	66.54	-10.00	256.40
20	12.89	64.07	-10.00	256.40
25	13.83	61.45	-10.00	256.40
30	11.05	56.89	-10.00	256.40
35	11.05	53.97	-10.00	256.40
40	11.16	51.36	-10.00	256.40
45	12.08	49.66	-10.00	256.40
50	12.02	47.53	-10.00	256.40
55	12.02	45.80	-10.00	256.40
60	11.89	44.32	-10.00	256.40
65	10.13	41.66	-10.00	256.40
70	10.13	41.15	-10.00	256.40
75	10.13	41.13	-7.96	269.20
80	8.91	40.41	-4.20	292.90
85	8.91	41.41	0.77	324.20
90	6.32	40.56	4.53	347.90
95	6.32	42.59	4.53	347.90
100	6.32	45.00	4.53	347.90
105	6.35	47.76	4.53	347.90
110	5.84	50.44	4.53	347.90
115	4.00	52.69	4.53	347.90
120	2.01	55.33	4.53	347.90
125	1.94	59.11	4.53	347.90
130	2.44	63.20	4.53	347.90
135	2.62	67.23	4.53	347.90
140	2.67	71.27	4.53	347.90
145	2.87	75.38	4.53	347.90
150	2.62	79.46	4.53	347.90
155	3.19	83.65	4.53	347.90
160	2.85	87.77	4.53	347.90
165	3.52	91.91	4.53	347.90
170	3.28	96.04	4.53	347.90
175	3.00	100.19	4.53	347.90
180	2.53	104.38	4.53	347.90
185	2.35	108.51	4.53	347.90

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Coordination Values

FILLMORE, CA

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Antenna Centerline (AGL)	8.23 m / 27.0 ft
Antenna Model	Scientific-Atlanta 10.3 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	10.9 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	2.28	112.57	4.53	347.90
195	0.78	117.05	4.53	347.90
200	0.41	121.18	4.53	347.90
205	1.23	124.74	4.53	347.90
210	0.97	128.61	4.53	347.90
215	0.94	132.22	4.53	347.90
220	0.00	136.21	4.53	347.90
225	0.00	139.42	4.53	347.90
230	0.00	142.31	4.53	347.90
235	0.00	144.80	4.53	347.90
240	0.00	146.79	4.53	347.90
245	0.00	148.21	4.53	347.90
250	0.00	148.95	4.53	347.90
255	0.00	148.97	4.53	347.90
260	0.00	148.28	4.53	347.90
265	0.00	146.92	4.53	347.90
270	0.00	144.96	4.53	347.90
275	1.12	141.62	0.77	324.20
280	1.30	138.71	-4.20	292.90
285	2.93	134.56	-7.96	269.20
290	4.19	130.57	-10.00	256.40
295	4.04	127.29	-10.00	256.40
300	4.42	123.56	-10.00	256.40
305	3.72	120.18	-10.00	256.40
310	3.09	116.58	-10.00	256.40
315	2.76	112.74	-10.00	256.40
320	3.33	108.58	-10.00	256.40
325	4.75	104.28	-10.00	256.40
330	5.93	100.12	-10.00	256.40
335	7.78	95.99	-10.00	256.40
340	8.25	92.08	-10.00	256.40
345	9.31	88.23	-10.00	256.40
350	9.65	84.45	-10.00	256.40
355	9.64	80.68	-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
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Ashburn, Virginia 20147

DATED: August 7, 2014