

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: 4/15/2017 - 05/15/2017

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 March 1, 2017.

Company

ABC Holding Company Inc.  
AT&T Corp.  
AirSites2000, LLC  
American Tower, LLC  
Anaheim City, of  
Arizona Public Service Company (APS)  
BNS Electronics, Inc.  
CCO SoCal I, LLC  
California Internet Solutions, Inc.  
California, State of  
Calvary Chapel of Costa Mesa  
Chevron USA Inc.  
City of Los Angeles Dept Water & Power  
City of Montebello  
Coast Community College District  
Communication Services, Inc.  
Conterra Ultra Broadband, LLC  
DM Ventures, Inc. dba Warp2Biz  
Entravision Holdings, LLC  
Exxon Communications Company  
Federal Communication Commission  
Fresno MSA Limited Partnership  
Frontier Communications of the Southwest  
GTE Mobilnet of Santa Barbara LTD Ptnsh  
Glendale, City of  
Global Telecom & Technology Americas, In  
GovNET Licenses LLC  
ION Media Los Angeles License, Inc.  
KTLA, LLC  
Kern Ed Telecom Consortium  
Kern, County of  
LDM Engineering  
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 Regional Interoperable Comm  
Los Angeles SMSA Ltd. Partnership  
MHO Networks  
MOBILE RELAY ASSOCIATES INC  
Metropolitan Water Dist of So California  
NRJ TV LA License Co, LLC  
New Cingular Wireless PCS LLC - AZ  
New Cingular Wireless PCS - Los Angeles  
New Cingular Wireless PCS LLC - N CAL  
Nextel License Holdings 4 Inc.  
Nextel of California Inc.  
Nextweb Inc  
Northrop Grumman Systems Corp.  
Olympic Wireless, LLC  
Orange, County of, CA  
Pacific Bell Tel Com dba AT&T California  
Pacific Lightwave Inc  
Regents of the University of California  
Riverside, County of  
San Bernardino County of California  
San Diego Broadband  
San Diego Gas & Electric Company  
Santa Barbara Cellular Systems, Ltd.  
Santa Barbara, County of  
Sentinel Peak Resources California LLC  
Skyriver Communications  
Southern California Edison Company  
Southern California Gas Company  
Southern California Regional Rail Auth.  
SpectrumLink  
T-Mobile License LLC  
TV Microwaves Company  
Turn Wireless, LLC  
Ultimate Internet Access, Inc  
Union Pacific Railroad Company  
University of California, HPWREN  
Vectus, Inc  
Ventura, County of  
Verizon California Inc.  
Verizon Wireless (VAW) LLC (Southern CA)  
Verizon Wireless (VAW) LLC-N CA/NV  
Verizon Wireless(VAW) LLC-AZ/CO/NM/NV/UT  
Vintage Production California LLC  
Western Technical Services

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

The following section presents the data pertinent to frequency coordination of the 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: 03/01/2017  
Job Number: 170301COMSGE01

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### Administrative Information

Status ENGINEER PROPOSAL  
Call Sign TEMP05  
Licensee Code INTELS  
Licensee Name Intelsat License LLC

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### Site Information

**FILLMORE, CA**  
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

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### Link Information

Satellite Type Geostationary  
Mode TO - Transmit-Only  
Modulation Digital  
Satellite Arc 45.6° W to 192.2° West Longitude  
Azimuth Range 99.6° to 260.4°  
Corresponding Elevation Angles 5.1° / 5.0°  
Antenna Centerline (AGL) 8.23 m / 27.0 ft

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### Antenna Information

**Transmit - FCC32**  
Manufacturer Scientific-Atlanta  
Model 3311  
Gain / Diameter 53.8 dBi / 10.0 m  
3-dB / 15-dB Beamwidth 0.40° / 0.60°

Max Available RF Power (dBW/4 kHz) 11.4  
(dBW/MHz) 35.4

Maximum EIRP (dBW/4 kHz) 65.2  
(dBW/MHz) 89.2

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 / 6173.7 - 6176.3

Max Great Circle Coordination Distance 549.8 km / 341.6 mi  
Precipitation Scatter Contour Radius 404.9 km / 251.6 mi

|                                    |                             |         |
|------------------------------------|-----------------------------|---------|
| <b>Coordination Values</b>         | <b>FILLMORE, CA</b>         |         |
| 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 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             | 11.4 (dBW/4 kHz)            |         |

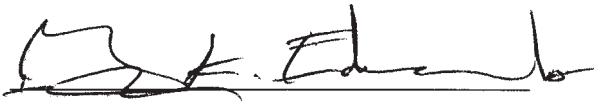
| Azimuth (°) | Horizon Elevation (°) | Antenna Discrimination (°) | Transmit 6.1 GHz   |                            |
|-------------|-----------------------|----------------------------|--------------------|----------------------------|
|             |                       |                            | Horizon Gain (dBi) | Coordination Distance (km) |
| 0           | 9.41                  | 99.59                      | -10.00             | 100.00                     |
| 5           | 9.28                  | 94.62                      | -10.00             | 100.00                     |
| 10          | 10.39                 | 89.63                      | -10.00             | 100.00                     |
| 15          | 10.81                 | 84.65                      | -10.00             | 100.00                     |
| 20          | 11.67                 | 79.70                      | -10.00             | 100.00                     |
| 25          | 12.11                 | 74.75                      | -10.00             | 100.00                     |
| 30          | 11.51                 | 69.76                      | -10.00             | 100.00                     |
| 35          | 10.87                 | 64.77                      | -10.00             | 100.00                     |
| 40          | 11.36                 | 59.83                      | -10.00             | 100.00                     |
| 45          | 12.04                 | 54.93                      | -10.00             | 100.00                     |
| 50          | 12.00                 | 49.98                      | -10.00             | 100.00                     |
| 55          | 11.61                 | 45.01                      | -9.33              | 100.00                     |
| 60          | 10.79                 | 39.97                      | -8.04              | 100.00                     |
| 65          | 9.78                  | 34.91                      | -6.57              | 100.00                     |
| 70          | 9.99                  | 30.00                      | -4.93              | 100.00                     |
| 75          | 9.18                  | 24.95                      | -2.93              | 100.00                     |
| 80          | 8.81                  | 19.97                      | -0.51              | 100.00                     |
| 85          | 8.14                  | 14.94                      | 2.64               | 107.60                     |
| 90          | 7.27                  | 9.88                       | 7.14               | 133.76                     |
| 95          | 5.88                  | 4.70                       | 15.20              | 197.69                     |
| 100         | 6.25                  | 0.44                       | 40.98              | 537.89                     |
| 105         | 6.17                  | 3.67                       | 17.90              | 208.43                     |
| 110         | 4.75                  | 8.51                       | 8.76               | 175.49                     |
| 115         | 2.86                  | 13.60                      | 3.66               | 186.35                     |
| 120         | 2.00                  | 18.02                      | 0.61               | 191.07                     |
| 125         | 1.86                  | 21.93                      | -1.52              | 184.59                     |
| 130         | 2.45                  | 25.27                      | -3.06              | 160.27                     |
| 135         | 2.61                  | 28.73                      | -4.46              | 149.92                     |
| 140         | 2.66                  | 32.11                      | -5.67              | 143.76                     |
| 145         | 2.81                  | 35.20                      | -6.66              | 136.67                     |
| 150         | 2.62                  | 38.28                      | -7.57              | 136.81                     |
| 155         | 3.21                  | 40.44                      | -8.17              | 124.91                     |
| 160         | 2.93                  | 42.90                      | -8.81              | 127.64                     |
| 165         | 3.48                  | 44.21                      | -9.14              | 116.64                     |
| 170         | 3.26                  | 45.71                      | -9.50              | 119.23                     |
| 175         | 3.12                  | 46.63                      | -9.72              | 120.91                     |
| 180         | 2.52                  | 47.50                      | -9.92              | 131.22                     |
| 185         | 2.35                  | 47.40                      | -9.89              | 133.42                     |

|                                    |                  |                             |         |
|------------------------------------|------------------|-----------------------------|---------|
| <b>Coordination Values</b>         |                  | <b>FILLMORE, CA</b>         |         |
| 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 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             | 11.4 (dBW/4 kHz) |                             |         |

| Azimuth (°) | Horizon Elevation (°) | Antenna Discrimination (°) | Transmit 6.1 GHz   |                            |
|-------------|-----------------------|----------------------------|--------------------|----------------------------|
|             |                       |                            | Horizon Gain (dBi) | Coordination Distance (km) |
| 190         | 2.28                  | 46.64                      | -9.72              | 135.31                     |
| 195         | 0.77                  | 46.65                      | -9.72              | 184.51                     |
| 200         | 0.45                  | 45.00                      | -9.33              | 205.54                     |
| 205         | 1.20                  | 42.04                      | -8.59              | 171.03                     |
| 210         | 0.96                  | 39.53                      | -7.92              | 182.63                     |
| 215         | 0.92                  | 36.55                      | -7.07              | 188.37                     |
| 220         | 0.00                  | 33.92                      | -6.26              | 241.70                     |
| 225         | 0.00                  | 30.45                      | -5.09              | 247.44                     |
| 230         | 0.00                  | 26.83                      | -3.72              | 253.80                     |
| 235         | 0.00                  | 23.09                      | -2.08              | 262.51                     |
| 240         | 0.00                  | 19.24                      | -0.11              | 273.66                     |
| 245         | 0.00                  | 15.33                      | 2.36               | 288.54                     |
| 250         | 0.00                  | 11.35                      | 5.63               | 309.89                     |
| 255         | 0.00                  | 7.37                       | 10.31              | 343.44                     |
| 260         | 0.00                  | 5.06                       | 14.40              | 549.80                     |
| 265         | 0.00                  | 6.84                       | 11.13              | 349.63                     |
| 270         | 0.00                  | 10.85                      | 6.11               | 313.22                     |
| 275         | 1.11                  | 15.13                      | 2.50               | 223.90                     |
| 280         | 1.29                  | 19.96                      | -0.51              | 205.85                     |
| 285         | 2.94                  | 24.70                      | -2.82              | 150.44                     |
| 290         | 4.19                  | 29.63                      | -4.79              | 121.23                     |
| 295         | 4.00                  | 34.63                      | -6.49              | 117.33                     |
| 300         | 4.44                  | 39.62                      | -7.95              | 105.86                     |
| 305         | 3.70                  | 44.64                      | -9.24              | 112.31                     |
| 310         | 3.09                  | 49.65                      | -10.00             | 120.49                     |
| 315         | 2.77                  | 54.65                      | -10.00             | 126.28                     |
| 320         | 3.24                  | 59.64                      | -10.00             | 117.67                     |
| 325         | 3.81                  | 64.63                      | -10.00             | 107.64                     |
| 330         | 5.52                  | 69.62                      | -10.00             | 100.00                     |
| 335         | 7.47                  | 74.63                      | -10.00             | 100.00                     |
| 340         | 8.31                  | 79.64                      | -10.00             | 100.00                     |
| 345         | 8.76                  | 84.63                      | -10.00             | 100.00                     |
| 350         | 9.64                  | 89.62                      | -10.00             | 100.00                     |
| 355         | 9.46                  | 94.61                      | -10.00             | 100.00                     |

## 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.

BY: 

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Senior Manager  
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DATED: March 16, 2017