

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
Request for Special Temporary Authority Using Earth Station E060388

1. Applicant

| | | | |
|-------------------|--|----------------------|-----------------------------|
| Name: | Intelsat License LLC | Phone Number: | 202-944-7848 |
| DBA Name: | | Fax Number: | 202-944-7870 |
| Street: | c/o Intelsat Corporation 3400 International Drive, N.W. | E-Mail: | susan.crandall@intelsat.com |
| City: | Washington | State: | DC |
| Country: | USA | Zipcode: | 20008 -3006 |
| Attention: | Susan H. Crandall | | |

SES-STA-20121015-00929
E060388 Grant Date 10-23-12
(or other identifier)
From 10-24-12
Paul E. Allen
10-23-12

Applicant: Intelsat License LLC
Call Sign: E060388
File No.: SES-STA-20121015-00929
Special Temporary Authority (STA)

Intelsat License LLC is granted STA to operate its earth station Call Sign E060388 in Nuevo, California for 30-day period from October 24, 2012 through November 23, 2012 under the following conditions:

1. Intelsat to provide in-orbit testing ("IOT") services for the Intelsat 23 satellite at orbital location 51.5° W.L. in the uplink frequencies 5925-6425 MHz and downlink frequencies 3700-4200 MHz.
2. Intelsat will coordinate the proposed IOT operations at IOT location 51.5° W.L. with operators of co-frequency satellites within six degrees. During the drift from 51.5° W.L. to the satellite's permanent orbital location 43.0° W.L., Intelsat will coordinate with operators of co-frequency satellites in the drift path.
3. The maximum uplink EIRP transmitted during the IOT operations will be 75 dBW, with an unmodulated carrier. Operations in some segments of the above frequency range will be at reduced eirp levels to ensure that interference is not caused to legally operating terrestrial facilities. In particular, operations in the 5930 – 5961 MHz and 6019 – 6050 MHz frequency bands will be at an eirp level of 59 dBW, while operation in the 5989 – 6020 MHz frequency band will be at a level of 68.5 dBW.
4. Operations, shall not cause harmful interference to, and shall not claim protection from, interference caused to it by any other lawfully operating station and it shall cease transmission(s) immediately upon notice of such interference.
5. Grant of this authorization is without prejudice to any determination that the Commission may make regarding pending or future Intelsat License LLC applications.
6. Any action taken or expense incurred as a result of operations pursuant to this STA is solely at Intelsat License LLC's risk.
7. This action is issued pursuant to Section 0.261 of the Commission's rules on delegated authority, 47 C.F.R. §0.261, and is effective immediately.



SES-STA-20121015-00929
E060388
Call Sign: E060388 Grant Date: 10-23-12
(or other identifier)
Term Dates: 10-24-12 To: 11-23-12
From: Paul E. Stiles
Address: Paul E. Stiles

| | |
|--|--|
| 2. Contact | |
| Name: Susan H. Crandall | Phone Number: 202-944-7848 |
| Company: Intelsat Corporation | Fax Number: 202-944-7870 |
| Street: 3400 International Drive, N.W. | E-Mail: susan.crandall@intelsat.com |
| City: Washington | State: DC |
| Country: USA | Zipcode: 20008 -3006 |
| Attention: Susan H. Crandall | Relationship: Legal Counsel |
| (If your application is related to an application filed with the Commission, enter either the file number or the IB Submission ID of the related application. Please enter only one.) | |
| 3. Reference File Number or Submission ID | |
| 4a. Is a fee submitted with this application? | |
| <input checked="" type="radio"/> If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R. Section 1.1114). <input type="radio"/> Governmental Entity <input type="radio"/> Noncommercial educational licensee <input type="radio"/> Other (please explain): | |
| 4b. Fee Classification CGX – Fixed Satellite Transmit/Receive Earth Station | |
| 5. Type Request | |
| <input type="radio"/> Use Prior to Grant <input type="radio"/> Change Station Location <input checked="" type="radio"/> Other | |
| 6. Requested Use Prior Date | |
| 7. City/Nuevo | |
| 8. Latitude (dd mm ss.s h) 33 47 43.6 N | |

| | |
|---|--|
| 9. State CA | 10. Longitude (dd mm ss.s h) 117 5 20.4 W |
| 11. Please supply any need attachments. Attachment 1: STA Request Attachment 2: Exhibit A Attachment 3: | |
| 12. Description. (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.) <div style="border: 1px solid black; padding: 5px;"> Intelsat License LLC herein requests a grant of Special Temporary Authority for 30 days, from October 24, 2012 through November 23, 2012, to use its Nuevo, California C-band earth station, call sign E060388, to provide in-orbit testing services for the Intelsat 23 satellite. </div> | |
| 13. By checking Yes, the undersigned certifies that neither applicant nor any other party to the application is subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti-Drug Act of 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. See 47 CFR 1.2002(b) for the meaning of "party to the application"; for these purposes. Yes <input checked="" type="radio"/> No <input type="radio"/> | |
| 14. Name of Person Signing Susan H. Crandall | 15. Title of Person Signing Asst. General Counsel, Intelsat Corporation |
| WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT (U.S. Code, Title 18, Section 1001), AND/OR REVOCATION OF ANY STATION AUTHORIZATION (U.S. Code, Title 47, Section 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503). | |

FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT

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THE FOREGOING NOTICE IS REQUIRED BY THE PAPERWORK REDUCTION ACT OF 1995, PUBLIC LAW 104-13, OCTOBER 1, 1995, 44 U.S.C. SECTION 3507.

FREQUENCY COORDINATION AND INTERFERENCE ANALYSIS REPORT

Prepared for
Intelsat License LLC
NUEVO, CA
Satellite Earth Station

Prepared By:
COMSEARCH
19700 Janelia Farm Boulevard
Ashburn, VA 20147
October 12, 2012

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1. CONCLUSIONS

An interference study considering all existing, proposed and prior coordinated microwave facilities within the coordination contours of the proposed earth station demonstrates that this site will operate satisfactorily with the common carrier microwave environment. Further, there will be no restrictions of its operation due to interference considerations.

2. SUMMARY OF RESULTS

A number of great circle interference cases were identified during the interference study of the proposed earth station. Each of the cases, which exceeded the interference objective on a line-of-sight basis, was profiled and the propagation losses estimated using NBS TN101 (Revised) techniques. The losses were found to be sufficient to reduce the signal levels to acceptable magnitudes in every case.

3. SUPPLEMENTAL SHOWING

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.

Coordination data for this earth station was sent to the below listed carriers with a letter dated 10/01/2012.

Company

ABC Holding Company Inc.
ANAHEIM CITY, COMMUNICATIONS DIVISION
AT&T California
AirSites2000, LLC
BNSF Railway Company
CCO SoCal I, LLC
CNG Communications, Inc.
COAST COMMUNITY COLLEGE DISTRICT
California, State of
Calvary Chapel of Costa Mesa
Cellco Partnership - California
City Of Los Angeles, Dept Water & Power
Coachella Valley Water District
DRS Technical Services
Entravision Holdings, LLC
Federal Communications Commission
Fresno MSA Limited Partnership
GTE Mobilnet of California LTD Partnersh
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 - Los Angeles
New Cingular Wireless PCS LLC -San Diego
Nextel of California Inc.
ORANGE, COUNTY OF, CA
QUALCOMM INC.
Regional 3Cs
Riverside, County of
SAN DIEGO, CITY OF
San Bernardino County of California
San Diego County
San Diego Gas & Electric Company
Skyriver Communications
Southern California Edison Company
Southern California Gas Company
Southern California Regional Rail Auth.

T-Mobile License LLC
TV MICROWAVES CO
Turn Wireless, LLC
University of California,HPWREN
Verizon California Inc.
Verizon Wireless (VAW) LLC (CA)
Western Pacific Mobile Microwave
Western Technical Services

4. EARTH STATION COORDINATION DATA

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

Date: 10/12/2012
Job Number: 121001COMSGE02

Administrative Information

Status: TEMPORARY (Operation from 10/10/2012 to 12/10/2012)
Call Sign: E060388
Licensee Code: INTELS
Licensee Name: Intelsat License LLC

Site Information

NUEVO, CA
Venue Name
Latitude (NAD 83): 33° 47' 48.1" N
Longitude (NAD 83): 117° 5' 20.1" W
Climate Zone: A
Rain Zone: 4
Ground Elevation (AMSL): 560.0 m / 1837.3 ft

Link Information

Satellite Type: Geostationary
Mode: TO - Transmit-Only
Modulation: Digital
Satellite Arc: 51° W to 52° West Longitude
Azimuth Range: 103.9° to 104.5°
Corresponding Elevation Angles: 11.2° / 12.0°
Antenna Centerline (AGL): 5.49 m / 18.0 ft

Antenna Information

Transmit - FCC32
Manufacturer: GD Satcom
Model: KXC120
Gain / Diameter: 55.5 dBi / 11.1 m
3-dB / 15-dB Beamwidth: 0.30° / 0.60°

Max Available RF Power (dBW/4 kHz): -4.5
(dBW/MHz): 19.5
Maximum EIRP (dBW/4 kHz): 51.0
(dBW/MHz): 75.0
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): 1M00G9W / 5925.0 - 5929.0
1M00G9W / 5962.0 - 5988.0
1M00G9W / 6051.0 - 6425.0

Max Great Circle Coordination Distance: 162.1 km / 100.7 mi
Precipitation Scatter Contour Radius: 100.0 km / 62.1 mi

COMSEARCH

Earth Station Data Sheet

19700 Janella Farm Boulevard, Ashburn, VA 20147

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

| Coordination Values | | NUEVO, CA |
|------------------------------------|--|--------------------------|
| Licensee Name | | Intelsat License LLC |
| Latitude (NAD 83) | | 33° 47' 48.1" N |
| Longitude (NAD 83) | | 117° 5' 20.1" W |
| Ground Elevation (AMSL) | | 560.0 m / 1837.3 ft |
| Antenna Centerline (AGL) | | 5.49 m / 18.0 ft |
| Antenna Model | | GD Satcom 11.1 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 | | -4.5 (dBW/4 kHz) |

| Azimuth (°) | Horizon Elevation (°) | Antenna Discrimination (°) | Transmit 6.1 GHz | |
|-------------|-----------------------|----------------------------|--------------------|----------------------------|
| | | | Horizon Gain (dBi) | Coordination Distance (km) |
| 0 | 1.43 | 103.65 | -10.00 | 101.22 |
| 5 | 2.61 | 98.76 | -10.00 | 100.00 |
| 10 | 2.46 | 93.81 | -10.00 | 100.00 |
| 15 | 2.97 | 88.87 | -10.00 | 100.00 |
| 20 | 3.39 | 83.91 | -10.00 | 100.00 |
| 25 | 3.06 | 78.97 | -10.00 | 100.00 |
| 30 | 4.07 | 73.98 | -10.00 | 100.00 |
| 35 | 3.52 | 69.05 | -10.00 | 100.00 |
| 40 | 3.57 | 64.10 | -10.00 | 100.00 |
| 45 | 3.58 | 59.16 | -10.00 | 100.00 |
| 50 | 3.16 | 54.26 | -10.00 | 100.00 |
| 55 | 2.93 | 49.37 | -10.00 | 100.00 |
| 60 | 2.87 | 44.47 | -9.20 | 100.00 |
| 65 | 3.66 | 39.46 | -7.90 | 100.00 |
| 70 | 3.76 | 34.56 | -6.46 | 100.00 |
| 75 | 3.23 | 29.83 | -4.87 | 100.00 |
| 80 | 3.63 | 24.95 | -2.93 | 100.00 |
| 85 | 3.91 | 20.15 | -0.61 | 100.00 |
| 90 | 3.59 | 15.75 | 2.07 | 100.00 |
| 95 | 3.00 | 12.01 | 5.01 | 118.56 |
| 100 | 2.86 | 9.14 | 7.98 | 132.23 |
| 105 | 3.05 | 8.18 | 9.18 | 133.68 |
| 110 | 3.82 | 9.55 | 7.49 | 113.31 |
| 115 | 3.90 | 13.24 | 3.96 | 100.00 |
| 120 | 3.93 | 17.43 | 0.97 | 100.00 |
| 125 | 4.00 | 21.95 | -1.54 | 100.00 |
| 130 | 3.93 | 26.67 | -3.65 | 100.00 |
| 135 | 3.85 | 31.48 | -5.45 | 100.00 |
| 140 | 3.88 | 36.31 | -7.00 | 100.00 |
| 145 | 4.30 | 41.11 | -8.35 | 100.00 |
| 150 | 3.53 | 46.12 | -9.60 | 100.00 |
| 155 | 2.83 | 51.11 | -10.00 | 100.00 |
| 160 | 4.39 | 55.86 | -10.00 | 100.00 |
| 165 | 4.78 | 60.77 | -10.00 | 100.00 |
| 170 | 4.36 | 65.74 | -10.00 | 100.00 |
| 175 | 5.21 | 70.65 | -10.00 | 100.00 |
| 180 | 5.57 | 75.61 | -10.00 | 100.00 |
| 185 | 6.21 | 80.56 | -10.00 | 100.00 |

COMSEARCH

Earth Station Data Sheet

19700 Janella Farm Boulevard, Ashburn, VA 20147

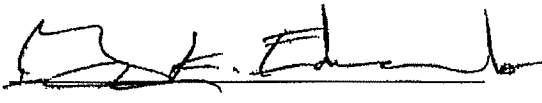
(703)726-5500 <http://www.comsearch.com>

| | |
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| Coordination Values | NUEVO, CA |
| Licensee Name | Intelsat License LLC |
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| Interference Objectives: Long Term | -154.0 dBW/4 kHz 20% |
| Short Term | -131.0 dBW/4 kHz 0.0025% |
| Max Available RF Power | -4.5 (dBW/4 kHz) |

| | | | Transmit 6.1 GHz | |
|-------------|--------------------------|-------------------------------|-----------------------|-------------------------------|
| Azimuth (°) | Horizon Elevation (°) | Antenna Discrimination (°) | Horizon Gain (dBi) | Coordination Distance (km) |
| 190 | 6.30 | 85.54 | -10.00 | 100.00 |
| 195 | 5.98 | 90.51 | -10.00 | 100.00 |
| 200 | 5.29 | 95.48 | -10.00 | 100.00 |
| 205 | 5.59 | 100.45 | -10.00 | 100.00 |
| 210 | 6.19 | 105.43 | -10.00 | 100.00 |
| 215 | 6.24 | 110.41 | -10.00 | 100.00 |
| 220 | 5.96 | 115.36 | -10.00 | 100.00 |
| 225 | 5.78 | 120.32 | -10.00 | 100.00 |
| 230 | 5.82 | 125.28 | -10.00 | 100.00 |
| 235 | 5.75 | 130.22 | -10.00 | 100.00 |
| 240 | 5.88 | 135.18 | -10.00 | 100.00 |
| 245 | 5.56 | 140.08 | -10.00 | 100.00 |
| 250 | 4.88 | 144.88 | -10.00 | 100.00 |
| 255 | 4.79 | 149.73 | -10.00 | 100.00 |
| 260 | 4.62 | 154.50 | -10.00 | 100.00 |
| 265 | 5.16 | 159.40 | -10.00 | 100.00 |
| 270 | 4.90 | 163.91 | -10.00 | 100.00 |
| 275 | 4.25 | 167.79 | -10.00 | 100.00 |
| 280 | 3.18 | 170.13 | -10.00 | 100.00 |
| 285 | 1.96 | 169.96 | -10.00 | 100.00 |
| 290 | 1.41 | 168.09 | -10.00 | 101.73 |
| 295 | 0.93 | 164.79 | -10.00 | 115.31 |
| 300 | 0.00 | 160.46 | -10.00 | 162.08 |
| 305 | 0.00 | 156.22 | -10.00 | 162.08 |
| 310 | 0.44 | 151.89 | -10.00 | 138.49 |
| 315 | 0.00 | 147.11 | -10.00 | 162.08 |
| 320 | 0.00 | 142.40 | -10.00 | 162.08 |
| 325 | 0.00 | 137.63 | -10.00 | 162.08 |
| 330 | 0.00 | 132.83 | -10.00 | 162.08 |
| 335 | 0.00 | 127.99 | -10.00 | 162.08 |
| 340 | 0.00 | 123.13 | -10.00 | 162.08 |
| 345 | 0.00 | 118.26 | -10.00 | 162.08 |
| 350 | 0.23 | 113.40 | -10.00 | 158.81 |
| 355 | 0.43 | 108.51 | -10.00 | 140.00 |

5. CERTIFICATION

I HEREBY CERTIFY THAT I AM THE TECHNICALLY QUALIFIED PERSON RESPONSIBLE FOR THE PREPARATION OF THE FREQUENCY COORDINATION DATA CONTAINED IN THIS APPLICATION, THAT I AM FAMILIAR WITH PARTS 101 AND 25 OF THE FCC RULES AND REGULATIONS, THAT I HAVE EITHER PREPARED OR REVIEWED THE FREQUENCY COORDINATION DATA SUBMITTED WITH THIS APPLICATION, AND THAT IT IS COMPLETE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

BY: 

Gary K. Edwards
Senior Manager
COMSEARCH
19700 Janella Farm Boulevard
Ashburn, VA 20147

DATED: October 12, 2012

October 15, 2012

Ms. Marlene H. Dortch
Secretary
Federal Communications Commission
445 12th Street, S.W.
Washington, D.C. 20554



Re: Request for Special Temporary Authority
Nuevo, California Earth Station E060388

Dear Ms. Dortch:

Intelsat License LLC (“Intelsat”) herein requests a grant of Special Temporary Authority (“STA”)¹ for 30 days, from October 24, 2012 through November 23, 2012, to use its Nuevo, California C-band earth station -- call sign E060388 -- to provide in-orbit testing (“IOT”) services for the Intelsat 23 satellite.

The Intelsat 23 IOT operations will be performed at the 51.5° W.L longitude orbital location in the 5925- 6425 MHz frequency bands in the uplink and the 3700-4200 MHz in the downlink (RHCP).²

The maximum uplink EIRP transmitted during the IOT operations will be 75 dBW, with an unmodulated carrier. Operations in some segments of the above frequency range will be at reduced eirp levels to ensure that interference is not caused to legally operating terrestrial facilities. In particular, operations in the 5930 – 5961 MHz and 6019 – 6050 MHz frequency bands will be at an eirp level of 59 dBW, while operation in the 5989 – 6020 MHz frequency band will be at a level of 68.5 dBW. A terrestrial coordination report is attached as Exhibit A.

The IOT operations also have been coordinated with all operators of satellites that use the same frequency bands and are within six degrees of the IOT location. As such, there is no risk of harmful interference into lawfully operating co-frequency satellites. In the extremely unlikely event that harmful interference should occur due to

¹ Intelsat has filed its STA request, an FCC Form 159, a \$180.00 filing fee and this supporting letter electronically via the International Bureau’s Filing System (“IBFS”).

² See *Policy Branch Information; Actions Taken*, Report No. SAT-00904, File No. SAT-STA-20120913-00149 (Oct. 11, 2012) (Public Notice); *Policy Branch Information; Actions Taken*, Report No. SAT-00889, File No. SAT-STA-20120628-00106 (Aug. 10, 2012) (Public Notice).

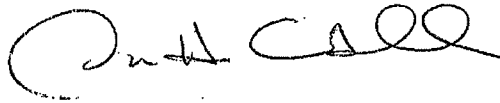
Ms. Marlene H. Dortch
October 15, 2012
Page 2

transmissions to or from its earth station, Intelsat will take all reasonable steps to eliminate the interference.

Grant of this STA request will allow Intelsat to in-orbit test the Intelsat 23 satellite, which is a critical step in ensuring that the satellite is able to provide service continuity at its permanent location of 43.0° W.L. Accordingly, grant is in the public interest.

Please direct any questions regarding this STA request to the undersigned at (202) 944-7848.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Susan H. Crandall". The signature is fluid and cursive, with a large initial "S" and "C".

Susan H. Crandall
Assistant General Counsel
Intelsat Corporation

Cc: Paul Blais