

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
Request for STA to Operate a 9.2m Ka-band Antenna at Intelsat's Riverside Teleport

I. 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-20121102-00986
Call Sign: Grant Date: 11-9-12
(or other identifier)
Tom Date: 11-14-12
From: [Signature] 11-14-12



Applicant: Intelsat License LLC
Call sign: No Call Sign
File number: SES-STA-20121102-00986
Special Temporary Authority (STA)

Intelsat License LLC is granted, under the following conditions, STA for a 30-day period from November 15, 2012 through December 14, 2012 to use its teleport site at Nuevo, California to test the proposed 9.2 meter General Dynamics model 9.2m KaFMA antenna in anticipation of using the antenna to access Ka-band satellite Galaxy 28 at orbital location 89° W.L.

1. The testing carrier 20KG9D will be performed on the uplink frequencies: 29.625 GHz (H,V,L,R) and 29.791 GHz (H,V,L,R) and on the downlink frequencies: 19.825 GHz (H,V,L,R) and 19.991 GHz (H,V,L,R) within coordinated emission and power limits.
2. Operations under this authority are on a non-interference basis only.
3. Operations under this authority are on a non-protected basis only.
4. In the event that there is a report of interference, Intelsat Licensee LLC must immediately terminate transmissions and notify the FCC in writing.
5. This is granted without prejudice to any future FCC enforcement action in connection with any unauthorized operation of radio facilities.
6. 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-20121102-00986

Call Sign _____ Grant Date 11-9-12
(or other identifier) _____

From 11-15-12 To 12-14-12
Tom Davis
Paul E. Glass

| | |
|---|--|
| 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. CityNuevo | |
| 8. Latitude (dd mm ss.s h) 33 47 42.7 N | |

| | |
|---|--|
| 9. State CA | 10. Longitude (dd mm ss.s h) 117 5 22.5 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;"> <p>Intelsat License LLC herein requests Special Temporary Authority for 30 days, from November 15, 2012 through December 14, 2012, to allow Intelsat to utilize a 9.2m Ka-band antenna located at its Riverside, CA teleport for testing with the Intelsat Galaxy 28 satellite at 89.0 W.L.</p> </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.

November 2, 2012

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



Re: Request for Special Temporary Authority
9.2m Ka-band Antenna, Riverside, California

Dear Ms. Dortch:

Intelsat License LLC ("Intelsat") herein requests Special Temporary Authority ("STA")¹ for 30 days — from November 15, 2012 through December 14, 2012 — to allow Intelsat to utilize a 9.2m Ka-band antenna located at its Riverside, CA teleport for testing with Intelsat's Galaxy 28 satellite at 89.0° W.L.

The testing will be performed in the following frequencies: 29.625 GHz (L) and 29.791 GHz (R) (uplink) and 19.825 GHz (L) and 19.991 GHz (L) (downlink). The maximum uplink EIRP per carrier will be 69.2 dBW. Intelsat is coordinating the proposed transmissions with the operators of all co-frequency, co-coverage satellites within plus/minus six degrees of 89.0° W.L. Specifically, Intelsat is coordinating the proposed transmissions with Telesat Canada, the operator of the Nimiq 1 satellite at 91.0° W.L. In the extremely unlikely event that harmful interference should occur, Intelsat will take all reasonable steps to eliminate the interference.

In further support of this request, Intelsat provides the relevant technical parameters in FCC Form 312, Schedule B, which is included as Exhibit A. In addition, Intelsat incorporates by reference the radiation hazard report and antenna gain patterns previously submitted for this antenna.²

Grant of this STA request will enable Intelsat to test the 9.2m antenna in anticipation of utilizing the antenna for IOT of a Ka-band satellite to be launched in the near future. This testing therefore will serve the public interest by potentially assisting in providing additional broadband service to consumers in the United States.

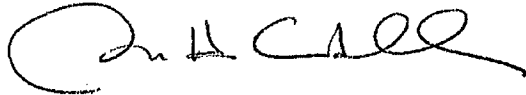
¹ Intelsat has filed its STA request, an FCC Form 159, a \$180.00 filing fee and this supporting letter electronically via the International Bureau's Filing System ("IBFS").

² See *Satellite Communications Services Information; Actions Taken*, Report No. SES-01231, File No. SES-STA-20091204-01561 (Mar. 31, 2010).

Ms. Marlene H. Dortch
November 2, 2012
Page 2

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

**FCC 312
Schedule B**

**FEDERAL COMMUNICATIONS COMMISSION
SATELLITE EARTH STATION AUTHORIZATIONS
(Technical and Operational Description)**

License of New Station
 Registration of New Domestic Receive-Only Station
 Amendment to a Pending Application
 Modification of License/Registration
 Notification of Minor Modification

B1. Location of Earth Station Site. If temporary-fixed, mobile, or VSAT remote facility, specify area of operation and point of contact. If VSAT hub station, give its location. For VSAT networks attach individual Schedule B, Page 1 sheets for each hub station and each remote station. Individually provide the Location, Points of Communications, and Destination Points for each hub and remote station.

| | | | |
|---|--|---------------------------------------|--|
| B1a. Station Call Sign | B1b. Site Identifier (HUB, REMOTE1, etc.) | B1c. Telephone Number 202-944-7301 | B1j. Geographic Coordinates N/S, Coordinates are: Deg. - Min. - Sec. - E/W |
| B1d. Street Address of Station or Area of Operation 22401 Juniper Flats Road | B1e. Name of Contact Person Guillermo Cabezas | | Lat. <input type="checkbox"/> 33 <input type="checkbox"/> 32 <input type="checkbox"/> 31 <input type="checkbox"/> 30 <input type="checkbox"/> 29 <input type="checkbox"/> 28 <input type="checkbox"/> 27 <input type="checkbox"/> 26 <input type="checkbox"/> 25 <input type="checkbox"/> 24 <input type="checkbox"/> 23 <input type="checkbox"/> 22 <input type="checkbox"/> 21 <input type="checkbox"/> 20 <input type="checkbox"/> 19 <input type="checkbox"/> 18 <input type="checkbox"/> 17 Lon. <input type="checkbox"/> 117 <input type="checkbox"/> 116 <input type="checkbox"/> 115 <input type="checkbox"/> 114 <input type="checkbox"/> 113 <input type="checkbox"/> 112 <input type="checkbox"/> 111 <input type="checkbox"/> 110 <input type="checkbox"/> 109 <input type="checkbox"/> 108 <input type="checkbox"/> 107 <input type="checkbox"/> 106 <input type="checkbox"/> 105 <input type="checkbox"/> 104 <input type="checkbox"/> 103 <input type="checkbox"/> 102 <input type="checkbox"/> 101 <input type="checkbox"/> 100 B1k. Lat./Lon. Coordinates are: <input type="checkbox"/> NAD-27 <input checked="" type="checkbox"/> NAD-83 B1l. Site Elevation (AMSL) 561.75 meters |
| B1f. City Nuevo | B1g. County Riverside | B1h. State CA | B1i. Zip Code 92567 |

B2. Points of Communications: List the names and orbit locations of all satellites with which this earth station will communicate. The entry "ALSAT" is sufficient to identify the names and locations of all satellite facilities licensed by the U.S. All non-U.S. licensed satellites must be listed individually.

| Satellite Name and Orbit Location | Satellite Name and Orbit Location |
|-----------------------------------|-----------------------------------|
| Galaxy 28 at 89 W/L. | |
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B3. Destination points for communications using non-U.S. licensed satellites. For each non-U.S. licensed satellite facility identified in section B2 above, specify the destination point(s) (countries) where the services will be provided by this earth station via each non-U.S. licensed satellite system. Use additional sheets as needed.

| Satellite Name | List of Destination Points |
|----------------|----------------------------|
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**FEDERAL COMMUNICATIONS COMMISSION
SATELLITE EARTH STATION AUTHORIZATIONS
FCC Form 312 - Schedule B: (Technical and Operational Description)**

B4. Earth Station Antenna Facilities: Use additional pages as needed.

| (a) Site ID | (b) Antenna ID | (c) Quantity | (d) Manufacturer | (e) Model | (f) Antenna Size (meters) | (g) Antenna Gain Transmit and/or Receive (dBi at GHz) |
|-------------|----------------|--------------|------------------|------------|---------------------------|---|
| 1 | 1 | 1 | General Dynamics | 9.2m KaFMA | 9.2 | 65.4 dBi @ 28.35 GHz 62.7 dBi @ 18.30 GHz |
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B5. Antenna Heights and Maximum Power Limits: (The corresponding Antenna ID in tables B4 and B5 applies to the same antenna)

| (a) Antenna ID | (b) Antenna Structure Registration No. | Maximum Antenna Height | | (e) Building Height Above Ground Level (meters) | (f) Maximum Antenna Height Above Rooftop (meters) | (g) Total Input Power at antenna flange (Watts) | (h) Total EIRP for all carriers (dBW) |
|----------------|--|---------------------------------|-----------------------------------|---|---|---|---------------------------------------|
| | | (c) Above Ground Level (meters) | (d) Above Mean Sea Level (meters) | | | | |
| 1 | | 13.2 | 574.95 | | | 400 | 91.4 |
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Notes: If this is an application for a VSAT network, identify the site (Item B1b, Schedule B, Page 1) where each antenna is located. Also include this Site-ID on Schedule B, Page 5.
 Identify each antenna in VSAT network or multi-antenna station with a unique identifier, such as HUB, REMOTE1, A1, A2, 10M, 12M, 7M, etc. Use this same antenna ID throughout tables B4, B5, B6, and B7 when referring to the same antenna.
 Attach sketch of site or exemption, See 47 CFR Part 17.

FEDERAL COMMUNICATIONS COMMISSION
 SATELLITE EARTH STATION AUTHORIZATIONS

FCC Form 312 - Schedule B: (Technical and Operational Description)

B6. Frequency Coordination Limits: Use additional pages as needed.

| (a) Antenna ID* | (b) Frequency Limits (MHz) | (c) Range of Satellite Arc Eastern Limit** | (d) Range of Satellite Arc Western Limit** | (e) Antenna Elevation Angle Eastern Limit | (f) Antenna Elevation Angle Western Limit | (g) Earth Station Azimuth Angle Eastern Limit | (h) Earth Station Azimuth Angle Western Limit | (i) Maximum EIRP Density toward the Horizon (dBW/4kHz) |
|-----------------|----------------------------|--|--|---|---|---|---|--|
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Notes: * Provide the ANTENNA-ID from table B4 to identify the antenna to which each frequency band and orbital arc range is associated.
 ** If operating with geostationary satellites, give the orbital arc limits and the associated elevation and azimuth angles. If operating with non-geostationary satellites, give the notation "NON-GEO" for the satellite arc and give the minimum operational elevation angle and the maximum azimuth angle range.

FEDERAL COMMUNICATIONS COMMISSION
 SATELLITE EARTH STATION AUTHORIZATIONS
 FCC Form 312 - Schedule B: (Technical and Operational Description)

B7. Particulars of Operation (Full particulars are required for each r.f. carrier): Use additional pages as needed.

| (a) Antenna ID* | (b) Frequency Bands (MHz) | (c) T/R Mode ** | (d) Antenna Polarization (H,V,L,R) | (e) Emission Designator | (f) Maximum EIRP per Carrier (dBW) | (g) Maximum EIRP Density per Carrier (dBW/4KHz) | (h) Description of Modulation and Services |
|-----------------------|---------------------------------|--------------------------|--|-------------------------------|--|--|--|
| 1 | 29500-30000 | T | H,V,L,R | 20KG9D | 69.2 | 62.19 | Test Carrier |
| 2 | 19700-20200 | R | H,V,L,R | 20KG9D | | | Test Carrier |
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Notes: * Provide the ANTENNA-ID from table B4 to identify the antenna to which each frequency band and emission is associated. For VSAT networks, include frequencies and emissions for all HUB and REMOTE units.
 ** Indicate whether the earth station transmits or receives in each frequency band.

FEDERAL COMMUNICATIONS COMMISSION
 SATELLITE EARTH STATION AUTHORIZATIONS
 FCC Form 312 - Schedule B: (Technical and Operational Description)

If VSAT Network, provide the SITE-ID (Item B1b) of the station that B8-B13 are in response to (HUB, REMOTE1, etc.): _____

| | |
|--|---|
| B8. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurements? If NO, provide as an exhibit, a technical analysis showing compliance with two-degree spacing policy. | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |
| B9. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non-geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements? | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| B10. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point. | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| Remote Control Point Location: | |
| B10a. Street Address | B10d. State / Country |
| B10b. City | B10e. Zip Code |
| B10f. Telephone Number | B10g. Call Sign of Control Station (if appropriate) |
| B11. Is frequency coordination required? If YES, attach a frequency coordination report as an exhibit. | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| B12. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as an exhibit. | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| B13. FAA Notification - (See 47 CFR Part 17 and 47 CFR Part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and/or the FAA's study regarding the potential hazard of the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION. | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |