

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 Utilize a 9.2m Ka-band Antenna at Intelsat's Riverside Teleport

1. Applicant

Name:	Intelsat License LLC	Phone Number:	703-559-7848
DBA Name:		Fax Number:	703-559-8539
Street:	c/o Intelsat Corporation 7900 Tysons One Place	E-Mail:	susan.crandall@intelsat.com
City:	McLean	State:	VA
Country:	USA	Zipcode:	22102 -5972
Attention:	Susan H. Crandall		

File # SES-STA-20151123-00867

Call Sign Grant Date 1-6-16
(or other identifier)

Term Dates
From: 1-6-16 To: 2-5-16

Approved: [Signature]



Application: Intelsat License LLC
File No.: SES-STA-20151123-00867
Call Sign: None
Special Temporary Authority (STA)



File # SES-STA-20151123-00867
Call Sign _____ Grant Date 1-6-16
(or other identifier)
Term Dates
From: 1-6-16 To: 2-5-16
Approved: Paul E. Black

Intelsat License LLC is granted a STA for 30 days, beginning January 6, 2016, to allow Intelsat to utilize a 9.2 meter Ka-band antenna located at its Riverside, California teleport for testing with the Galaxy 28 satellite at (Call Sign S2160) at 89.0° W.L., in order to ensure the readiness of its 9.2m Ka-band antenna to support an upcoming Ka-band launch and Early Orbit Phase (“LEOP”) mission, under the following conditions:

1. Intelsat will perform the operations in the uplink frequencies (Earth-to-space): 29500-30000 MHz and the downlink frequencies (space-to-Earth): 19700-20200 MHz, within coordinated emission and power limits. The maximum uplink EIRP per carrier will be 57.5 dBW.
2. 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.
3. All operations under this grant of STA shall be on an unprotected and non-harmful interference basis. Intelsat's shall not cause harmful interference to, and shall not claim protection from interference caused to it by, any other lawfully operating radio communication system.
5. In the event of any harmful interference under this grant of STA, Intelsat License LLC must cease operations immediately upon notification of such interference, and must inform the Commission, in writing, immediately of such an event.
6. Grant of this authorization is without prejudice to any determination that the Commission may make regarding pending or future Intelsat License LLC applications.
7. Any action taken or expense incurred as a result of operations pursuant to this STA is solely 'at Intelsat License LLC's risk.
8. 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.

2. Contact	
Name: Cynthia J. Grady	Phone Number: 703-559-6949
Company: Intelsat Corporation	Fax Number: 703-559-8539
Street: 7900 Tysons One Place	E-Mail: cynthia.grady@intelsat.com
City: McLean	State: VA
Country: USA	Zipcode: 22102 -5972
Attention:	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.) Intelsat License LLC herein requests a grant of Special Temporary Authority for 30 days, commencing December 15, 2015, to allow Intelsat to utilize a 9.2 meter Ka-band antenna located at its Riverside, California teleport for testing with the Galaxy 28 satellite (Call Sign S2160) at 89.0 W.L. Intelsat seeks this STA request in order to ensure the	
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"; party to the application; for these purposes. Yes <input checked="" type="radio"/> No <input type="radio"/>	
14. Name of Person Signing Cynthia J. Grady	15. Title of Person Signing Regulatory 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

The public reporting for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the required data, and completing and reviewing the collection of information. If you have any comments on this burden estimate, or how we can improve the collection and reduce the burden it causes you, please write to the Federal Communications Commission, AMD-PERM, Paperwork Reduction Project (3060-0678), Washington, DC 20554. We will also accept your comments regarding the Paperwork Reduction Act aspects of this collection via the Internet if you send them to PRA@fcc.gov. PLEASE DO NOT SEND COMPLETED FORMS TO THIS ADDRESS.

Remember – You are not required to respond to a collection of information sponsored by the Federal government, and the government may not conduct or sponsor this collection, unless it displays a currently valid OMB control number or if we fail to provide you with this notice. This collection has been assigned an OMB control number of 3060-0678.

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.

12. Description

Intelsat License LLC herein requests a grant of Special Temporary Authority for 30 days, commencing December 15, 2015, to allow Intelsat to utilize a 9.2 meter Ka-band antenna located at its Riverside, California teleport for testing with the Galaxy 28 satellite (Call Sign S2160) at 89.0 W.L. Intelsat seeks this STA request in order to ensure the readiness of its 9.2m Ka-band antenna to support an upcoming Ka-band Launch and Early Orbit Phase mission.

November 23, 2015

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

Re: Request for Special Temporary Authority to Operate a 9.2m Ka-band Antenna at
Intelsat's Riverside, California Teleport

Dear Ms. Dortch:

Intelsat License LLC ("Intelsat") herein requests a grant of Special Temporary Authority ("STA")¹ for 30 days, commencing December 15, 2015, to allow Intelsat to utilize a 9.2 meter Ka-band antenna located at its Riverside, California teleport for testing with the Galaxy 28 satellite at (Call Sign S2160) at 89.0° W.L. Intelsat seeks this STA request in order to ensure the readiness of its 9.2m Ka-band antenna to support an upcoming Ka-band Launch and Early Orbit Phase ("LEOP") mission.

The testing will be performed in the following frequencies: 29957 MHz (uplink) and 20157 MHz (downlink). The maximum uplink EIRP per carrier will be 57.5 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 New DBSD Satellite Services G.P., the operator of ICO G1 at 92.85° W.L.; Hughes Network Systems LLC, the operator of SPACEWAY 3 at 94.95° W.L.; and SES, the operator of AMC-16 at 85.0° W.L. Additionally, Intelsat understands that NTIA coordination is required for Government systems in the band 17.7-20.2 GHz. 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 LEOP of a Ka-band satellite to be launched in the near future. This testing therefore will serve the public interest by ensuring the safe LEOP of a new Ka-band satellite.

¹ Intelsat has filed this STA request, an FCC Form 159, a \$195.00 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 23, 2015
Page 2

For the reasons set forth herein, Intelsat respectfully requests that the Commission grant this STA request. Please direct any questions regarding this STA request to the undersigned at (703) 559-6949.

Respectfully submitted,

A handwritten signature in black ink, reading "Cynthia J. Grady" followed by a stylized flourish.

Cynthia J. Grady
Regulatory Counsel
Intelsat Corporation

cc: Paul Blais

Exhibit A

47. Please supply any need attachments.

Attachment 1:	Attachment 2:	Attachment 3:
---------------	---------------	---------------

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).

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

FOR OFFICIAL USE ONLY

Location of Earth Station Site

E1: Site Identifier:	1	E5: Call Sign:	NONE
E2: Contact Name	Vance Allen	E6: Phone Number:	951-928-3446
E3: Street:	22401 Juniper Flats Road	E7: City:	Nuevo
E4: State	CA	E8: County:	Riverside
E10: Area of Operation:		E9: Zip Code	92567
E11: Latitude:	33 ° 47 ' 42.7 " N		
E12: Longitude:	117 ° 5 ' 22.5 " W		
E13: Lat/Lon Coordinates are:		<input type="radio"/> NAD-27	<input checked="" type="radio"/> NAD-83 <input type="radio"/> N/A
E14: Site Elevation (AMSL):	561.75 meters		

E15. 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 measurement? If NO, provide a technical analysis showing compliance with two-degree spacing policy.	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A
---	---

E16. 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="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A
--	---

E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	<input type="radio"/> Yes <input checked="" type="radio"/> No
--	---

E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<input type="radio"/> Yes <input checked="" type="radio"/> No
--	---

E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	<input type="radio"/> Yes <input checked="" type="radio"/> No
--	---

E20. 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="radio"/> Yes <input checked="" type="radio"/> No
---	---

POINTS OF COMMUNICATION

Satellite Name: GALAXY 28 | GALAXY 28 | 89.0 W.L. If you selected OTHER, please enter the following:

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

POINTS OF COMMUNICATION (Destination Points)

E25. Site Identifier:	
E26. Common Name:	E27. Country:

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size	E41/42. Antenna Gain Transmitt and/or Recieve (___ dBi at ___ GHz)
1	1	1	General Dynamics	9.2M KzFNA	9.2	62.7 dBi at 18.30
						65.4 dBi at 28.35

E28. Antenna Id	E33/34. Diameter Minor/Major (meters)	E35. Above Ground Level (meters)	E36. Above Sea Level (meters)	E37. Building Height Above Ground Level (meters)	E38. Total Input Power at antenna flange (Watts)	E39. Maximum Antenna Height Above Rooftop (meters)	E40. Total EIRP for al carriers (dBW)
1	9.2/9.2	13.2	574.95	0.0	400.0	0.0	91.4

FREQUENCY

E28. Antenna Id	E43/44. Frequency Bands (MHz)	E45. T/R Mode	E46. Antenna Polarization (H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier (dBW)	E49. Maximum EIRP Density per Carrier (dBW/4kHz)
1	20157 20157	R	Left Hand Circular	850KG7D	0.0	0.0

E50. Modulation and Services Telemetry

1	29957 29957	T	Left Hand Circular	N0N	57.5	57.5
---	-------------	---	--------------------	-----	------	------

E50. Modulation and Services Testing and calibration

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits (MHz)	E54/55. Range of Satellite Arc E/W Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
			/					

REMOTE CONTROL POINT LOCATION

REMOTE CONTROL POINT LOCATION

E61. Call Sign		E65. Phone Number	
NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.			
E62. Street Address			
E63. City	E67. County	E64/68. State/Country	E66. Zip Code

FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT

The public reporting for this collection of information is estimated to average 0.25 - 24 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the required data, and completing and reviewing the collection of information. If you have any comments on this burden estimate, or how we can improve the collection and reduce the burden it causes you, please write to the Federal Communications Commission, AMD-PER, Paperwork Reduction Project (3060-0678), Washington, DC 20554. We will also accept your comments regarding the Paperwork Reduction Act aspects of this collection via the Internet if you send them to PRA@fcc.gov. PLEASE DO NOT SEND COMPLETED FORMS TO THIS ADDRESS.

Remember - You are not required to respond to a collection of information sponsored by the Federal government, and the government may not conduct or sponsor this collection, unless it displays a currently valid OMB control number or if we fail to provide you with this notice. This collection has been assigned an OMB control number of 3060-0678.

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.