

S2915 SAT-STA-20150701-00040 IB2015001227  
Intelsat License LLC  
IS34

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File Number: SAT-STA-20150701-00040  
Callsign:

File # SAT-STA-20150701-00040  
Call Sign S2915 Grant Date 07/30/15  
(or other identifier)  
Term Dates period of  
From 08/28/15 To: 30 days  
Approved: Stephen J. Duall  
Stephen J. Duall  
Chief, Satellite Policy Branch

Approved by OMB  
3060-0678



FEDERAL COMMUNICATIONS COMMISSION  
APPLICATION FOR SPACE STATION SPECIAL TEMPORARY AUTHORITY

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APPLICANT INFORMATION

Enter a description of this application to identify it on the main menu:

Request for 30-Day STA to Conduct IOT of the Intelsat 34 Satellite, Call Sign S2915


1. Applicant

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

**Attachment to Grant  
Intelsat License LLC  
IBFS File No. SAT-STA-20150701-00040  
Call Sign S2915**

The application of Intelsat License LLC (Intelsat) for special temporary authority, IBFS File No. SAT-STA-20150701-00040, is GRANTED. Accordingly, Intelsat is authorized for a period of 30 days, commencing August 28, 2015, to conduct in-orbit testing (IOT) of the Intelsat 34 space station (Call Sign S2915) at the 51.5° W.L. orbital location using the 3700–4200 MHz (space-to-Earth), 5925–6425 MHz (Earth-to-space), 11.45–11.7 GHz (space-to-Earth), 11.7–12.2 GHz (space-to-Earth), and 14.0–14.5 GHz (Earth-to-space) frequency bands. Intelsat is also authorized to conduct telemetry, tracking, and control (TT&C) operations to maintain Intelsat 34 during IOT at the 51.5° W.L. orbital location, and to effect the drift of Intelsat 34 to the 55.5° W.L. orbital location upon completion of IOT, using the following center frequencies: 3949 MHz, 3949.5 MHz, 3950.5 MHz, and 3951 MHz (space-to-Earth); and 6173.7 MHz and 6176.3 MHz (Earth-to-space). Operations under this authorization must be in accordance with the terms, conditions, and technical specifications set forth in Intelsat’s application and the Federal Communications Commission’s rules not waived herein, and are subject to the following conditions:

1. All operations under this grant of special temporary authority must be on an unprotected and non-harmful interference basis, *i.e.*, Intelsat must not cause harmful interference to, and shall not claim protection from interference caused to it by, any other lawfully operating station.
2. In the event of any harmful interference under this grant of special temporary authority, Intelsat must cease operations immediately upon notification of such interference and must inform the Commission, in writing, immediately of such an event.
3. Intelsat must coordinate the operations of Intelsat 34 with existing geostationary space stations to ensure that no unacceptable interference results from its operations at the 51.5° W.L. orbital location or during drift from the 51.5° W.L. orbital location to the 55.5° W.L. orbital location.
4. Intelsat 34’s operations at the 51.5° W.L. orbital location must be limited to IOT and must not include the provision of commercial services.
5. Intelsat must operate only the TT&C frequencies on Intelsat 34 during the space station's drift from the 51.5° W.L. orbital location to the 55.5° W.L. orbital location.
6. During in-orbit testing, Intelsat must maintain the Intelsat 34 space station within an east-west longitudinal station-keeping tolerance of  $\pm 0.05$  degrees of the 51.5° W.L. orbital location.
7. IOT operations for Intelsat 34 must comply with the conditions imposed in IBFS File No. SAT-LOA-20140114-00005.<sup>1</sup>
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.

 <b>GRANTED*</b> International Bureau *with conditions	<b>File #</b> <u>SAT-STA-20150701-00040</u>
	<b>Call Sign</b> <u>S2915</u> <b>Grant Date</b> <u>07/30/15</u> (or other identifier)
	<b>Term Dates</b> period of <b>From</b> <u>08/28/15</u> <b>To:</b> <u>30 days</u>
	<b>Approved:</b> <u>Stephen J. Duall</u> Stephen J. Duall Chief, Satellite Policy Branch

<sup>1</sup> See Intelsat License LLC’s Application for Authority to Launch and Operate Replacement Satellite Intelsat 34 at 55.5° W.L., IBFS File No. SAT-LOA-20140114-00005 (Grant stamp, Jan. 22, 2015).

<b>2. Contact</b>	
<b>Name:</b>	Susan H. Crandall
<b>Company:</b>	Intelsat Corporation
<b>Street:</b>	7900 Tysons One Place
<b>City:</b>	McLean
<b>Country:</b>	USA
<b>Attention:</b>	
<b>Phone Number:</b>	703-559-7848
<b>Fax Number:</b>	703-559-8538
<b>E-Mail:</b>	susan.crandall@intelsat.com
<b>State:</b>	VA
<b>Zipcode:</b>	22102 -5972
<b>Relationship:</b>	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    CRY - Space Station (Geostationary)	
5. Type Request	
<input type="radio"/> Change Station Location <input type="radio"/> Extend Expiration Date <input checked="" type="radio"/> Other	
6. Temporary Orbit Location	
7. Requested Extended Expiration Date	

8. 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, from August 28, 2015 through September 26, 2015, to conduct in-orbit testing of the Intelsat 34 satellite (Call Sign S2915) at 51.5 W.L. in the bands 3700 - 4200 MHz, 5925 - 6425 MHz, 11450 - 11700 MHz, 11700 - 12200 MHz, and 14000 - 14500 MHz; and to drift the

9. 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  No

10. Name of Person Signing  
Cynthia J. Grady

11. Title of Person Signing  
Regulatory Counsel, Intelsat Corporation

12. Please supply any need attachments.

Attachment 1: STA Request

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).

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## **8. Description**

Intelsat License LLC herein requests a grant of Special Temporary Authority for 30 days, from August 28, 2015 through September 26, 2015, to conduct in-orbit testing of the Intelsat 34 satellite (Call Sign S2915) at 51.5 W.L. in the bands 3700 - 4200 MHz, 5925 - 6425 MHz, 11450 - 11700 MHz, 11700 - 12200 MHz, and 14000 - 14500 MHz; and to drift the satellite to its permanent location of 55.5 W.L.



INTELSAT

Envision. Connect. Transform.

July 1, 2015

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

Re: Request for Special Temporary Authority to Conduct In-Orbit Testing of the Intelsat 34 Satellite;  
Call Sign S2915

Dear Ms. Dortch:

Intelsat License LLC (“Intelsat”) herein requests a grant of Special Temporary Authority (“STA”)<sup>1</sup> for 30 days, from August 28, 2015 through September 26, 2015, to conduct in-orbit testing (“IOT”) of the Intelsat 34 satellite (Call Sign S2915) at 51.5° W.L. in the bands 3700 – 4200 MHz, 5925 – 6425 MHz, 11450 – 11700 MHz, 11700 – 12200 MHz, and 14000 – 14500 MHz; and to drift the satellite to its permanent location of 55.5° W.L.<sup>2</sup> Intelsat 34 currently is scheduled to be launched on August 18, 2015. In support of its request, Intelsat submits the following information.

During in-orbit testing of Intelsat 34, Intelsat will operate in the above referenced C- and Ku-bands. To Intelsat’s knowledge, the only co-frequency satellites within plus/minus six degrees of 51.5° W.L. are Intelsat 805 at 55.5° W.L., Galaxy 11 at 55.6° W.L., Intelsat 23 at 53.0° W.L., Intelsat 1R at 50.0° W.L., NSS 806 at 47.5° W.L., and Amazonas 1 at 55.5° W.L. Intelsat has completed coordination discussions with SES World Skies, the operator of NSS 806; and Hispasat, the operator of Amazonas 1, regarding the Intelsat 34 IOT. With regard to the remaining spacecraft, Intelsat will internally coordinate the proposed testing with the operations of these satellites. In the unlikely event that harmful interference occurs, Intelsat will take all necessary steps to eliminate the interference.

Intelsat has assessed and limited the probability of the space station becoming a source of debris as a result of collision with large debris or other operational space stations during IOT at 51.5° W.L. Intelsat 34 will not be located at the same orbital location as another satellite or at an orbital location that has an overlapping station-keeping volume with another satellite. Further, Intelsat is not aware of any other FCC licensed system, or any other system applied for and under consideration by the FCC, having an overlapping station-keeping volume with Intelsat 34 at 51.5° W.L. Finally, Intelsat is not aware of any

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<sup>1</sup> Intelsat has filed this STA request, an FCC Form 159, and a \$930.00 filing fee electronically via the International Bureau's Filing System.

<sup>2</sup> See *Policy Branch Information; Actions Taken*, Report No. SAT-01064, File No. SAT-LOA-20140114-00005 (Jan. 23, 2015) (Public Notice). During the drift from 55.1° W.L. to 55.5° W.L., only the satellite’s TT&C frequencies will be utilized. The TT&C frequencies are: 3949 MHz, 3949.5 MHz, 3950.5 MHz, 3951 MHz (space-to-Earth); and 6173.7 MHz and 6176.3 MHz (Earth-to-space).

Ms. Marlene H. Dortch

July 1, 2015

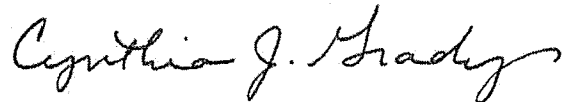
Page 2

system with an overlapping station-keeping volume with Intelsat 34 that is the subject of an ITU filing and that is either in orbit or progressing towards launch.

The IOT of Intelsat 34's C- and Ku-band payloads at 51.5° W.L. is a critical step in ensuring that the satellite will be fully operational at 55.5° W.L. This, in turn, will ensure continuity of service to customers at the 55.5° W.L. location, and thereby promotes the public interest.

For the reasons set forth herein, Intelsat respectfully requests that the Commission grant this request.

Sincerely,

A handwritten signature in cursive script that reads "Cynthia J. Grady".

Cynthia J. Grady  
Regulatory Counsel  
Intelsat Corporation

cc: Stephen Duall  
Jay Whaley  
Cindy Spiers