

S2934 SAT-STA-20160622-00057 IB2016001424  
Intelsat License LLC  
IS31



\*with conditions

File # SAT-STA-20160622-00057

Call Sign S2934 Grant Date 06/30/16

(or other identifier)

Term Dates period of  
From 07/10/16 To: 30 days

Approved by OMB  
3060-0678

Approved: Stephen J. Duall

Stephen J. Duall  
Chief, Satellite Policy Branch

Date & Time Filed: Jun 22 2016 9:51:09:966AM  
File Number: SAT-STA-20160622-00057  
Callsign:

FEDERAL COMMUNICATIONS COMMISSION  
APPLICATION FOR SPACE STATION SPECIAL TEMPORARY AUTHORITY  
FOR OFFICIAL USE ONLY

APPLICANT INFORMATION

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

Request for Extension of Special Temporary Authority to Conduct In-Orbit Testing of the Intelsat 31 Satellite (Call Sign S2934)


I. 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-20160622-00057

<b>IBFS File No(s):</b>	SAT-STA-20160622-00057	<p align="center"><b>GRANTED – With Conditions</b></p>  <p align="center"><b>International Bureau Satellite Division</b></p>
<b>Licensee/Grantee:</b>	Intelsat License LLC	
<b>Call Sign:</b>	S2934	
<b>Satellite Name:</b>	Intelsat 31	
<b>Orbital Location: (required station-keeping tolerance)</b>	132.0° W.L. (+/- 0.05 degrees east/west)	
<b>Administration:</b>	United States of America	
<b>Nature of Service:</b>	Fixed-Satellite Service (FSS)	
<b>Scope of Grant:</b>	Special temporary authority for a period of 30 days to continue to perform in-orbit testing (IOT) of Intelsat 31 at the 132.0° W.L. orbital location and to perform Telemetry, Tracking, and Command (TT&C) operations necessary to maintain Intelsat 31 at 132.0° W.L. and to effect drift of Intelsat 31 to its authorized orbital location at 95.05° W.L. upon completion of IOT.	
<b>Service Area(s):</b>	Not Applicable	
<b>Frequencies:</b>	Payload testing frequencies: 3400–3700 MHz (space-to-Earth) 6425–6725 MHz (Earth-to-space) 10.95–11.2 GHz (space-to-Earth) 11.45–12.2 GHz (space-to-Earth) 13.75–14.5 GHz (Earth-to-space)  TT&C center frequencies: 11194.25 MHz, 11195.5 MHz, 11196.25 MHz, 11196.75 MHz (space-to-Earth); and 13998.5 MHz and 14006.0 MHz (Earth-to-space).	
<p><b>Operations under this grant must comport with the legal and technical specifications set forth by the applicant or petitioner and with Federal Communication Commission’s rules not waived herein. This grant is also subject to the following conditions:</b></p> <ol style="list-style-type: none"> <li>1. All operations under this grant of special temporary authority must be on an unprotected and non-harmful interference basis, <i>i.e.</i>, Intelsat must not cause harmful interference to, and shall not claim protection from interference caused to it by, any other lawfully operating station.</li> <li>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.</li> <li>3. Intelsat must coordinate the operations of Intelsat 31 with existing geostationary space stations to ensure that no unacceptable interference results from its operations at the 132.0° W.L. orbital location or during drift from the 132.0° W.L. orbital location to the 95.05° W.L. orbital location.</li> <li>4. Intelsat 31’s operations at the 132.0° W.L. orbital location must be limited to IOT and must not include the provision of commercial services.</li> <li>5. Intelsat must operate only the TT&amp;C frequencies on Intelsat 31 during the space station's drift from the 132.0° W.L. orbital location to the 95.05° W.L. orbital location.</li> <li>6. During in-orbit testing, Intelsat must maintain the Intelsat 31 space station within an east-west longitudinal station-keeping tolerance of ±0.05 degrees of the 132.0° W.L. orbital location.</li> </ol>		

**ATTACHMENT TO GRANT**

Intelsat License LLC

IBFS File No, SAT-STA-20160622-00057

7. IOT operations for Intelsat 31 must comply with the conditions imposed in IBFS File SAT-LOA-20140410-00038.<sup>1</sup>

Licensee/grantee is afforded thirty (30) days from the date of release of this action to decline the grant as conditioned. Failure to respond within this period will constitute formal acceptance of the grant as conditioned.

This action is taken pursuant to Section 0.261 of the Commission's rules on delegated authority, 47 C.F.R. § 0.261, and is effective upon release.

Station licenses are subject to the conditions specified in Section 309(h) of the Communications Act of 1934, as amended, 47 U.S.C. § 309(h).

<b>Action Date:</b>	June 30, 2016	
<b>Term Dates</b>	<b>From:</b> July 10, 2016	<b>To:</b> period of 30 days

**Approved:**



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 31 at 95.05° W.L., IBFS File No. SAT-LOA-20140410-00038 (Grant stamp, Nov. 6, 2014).

2. Contact	
<b>Name:</b> Cynthia J. Grady	<b>Phone Number:</b> 703-559-6949
<b>Company:</b> Intelsat Corporation	<b>Fax Number:</b> 703-559-8539
<b>Street:</b> 7900 Tysons One Place	<b>E-Mail:</b> cynthia.grady@intelsat.com
<b>City:</b> McLean	<b>State:</b> VA
<b>Country:</b> USA	<b>Zipcode:</b> 22102 -5972
<b>Attention:</b>	<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 checked="" type="radio"/> Extend Expiration Date <input type="radio"/> Other	
6. Temporary Orbit Location	7. Requested Extended Expiration Date 2016-08-08 00:00:00.0

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 30-day extension, beginning July 10, 2016, of the Special Temporary Authority previously granted Intelsat to conduct in-orbit testing of the Intelsat 31 satellite (Call Sign S2934) at 132.0 W.L. and to drift the satellite to its permanent location of 95.05 W.L. Intelsat 31 was launched on June 9, 2016. The IOT

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 30-day extension, beginning July 10, 2016, of the Special Temporary Authority previously granted Intelsat to conduct in-orbit testing of the Intelsat 31 satellite (Call Sign S2934) at 132.0 W.L. and to drift the satellite to its permanent location of 95.05 W.L. Intelsat 31 was launched on June 9, 2016. The IOT period is expected to last approximately three weeks and the drift to 95.05 W.L. is expected to last approximately two weeks.

June 22, 2016

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

Re: Request for Extension of Special Temporary Authority to Conduct In-Orbit Testing of the  
Intelsat 31 Satellite; Call Sign S2934

Dear Ms. Dortch:

Intelsat License LLC (“Intelsat”) herein requests a 30-day extension, beginning July 10, 2016, of the Special Temporary Authority (“STA”)<sup>1</sup> previously granted Intelsat to conduct in-orbit testing (“IOT”)<sup>2</sup> of the Intelsat 31 satellite (Call Sign S2934) at 132.0° W.L. and to drift the satellite to its permanent location of 95.05° W.L.<sup>3</sup> Intelsat 31 was launched on June 9, 2016. The IOT period is expected to last approximately three weeks and the drift to 95.05° W.L. is expected to last approximately two weeks.

Intelsat 31 IOT payload testing will be performed in the following frequency bands:

- 3400 – 3700 MHz, 10950 – 11200 MHz, 11450 – 12200 MHz (space-to-Earth); and
- 6425 – 6725 MHz and 13750 – 145000 MHz (Earth-to-space).

Telemetry, Tracking, and Command (“TT&C”) services for Intelsat 31 will be performed in the following center frequencies: 11194.25 MHz, 11195.5 MHz, 11196.25 MHz, 11196.75 MHz (space-to-Earth); and 13998.5 MHz and 14006.0 MHz (Earth-to-space).

In support of its extension request, Intelsat includes the following information as submitted in its original STA request.

During the IOT of Intelsat 31, Intelsat will operate in the above referenced C- and Ku-bands. To Intelsat’s knowledge, the only co-frequency, co-coverage, satellite within plus/minus six degrees of 132° W.L. is AMC-1 at 129.1° W.L. Intelsat is currently in coordination discussions with SES, the operator of AMC-1. Intelsat expects to complete coordination discussions before launch of the Intelsat 31 satellite.

<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-01160, File No. SAT-STA-20160503-00043 (Public Notice) (May 20, 2016).

<sup>3</sup> See *Policy Branch Information; Actions Taken*, Report No. SAT-01052, File No. SAT-LOA-20140410-00038 (November 7, 2014) (Public Notice). During the drift from 76.5° W.L. to 95.05° W.L., only the satellite’s TT&C frequencies will be utilized. At 95.05° W.L., Intelsat 31 will be co-located with Intelsat 30 (S2887) and Galaxy 3C (S2381).



Ms. Marlene H. Dortch  
June 22, 2016  
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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 132.0° W.L. Intelsat 31 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 31 at 132.0° W.L. Finally, Intelsat is not aware of any system with an overlapping station-keeping volume with Intelsat 31 at 132.0° W.L. that is the subject of an International Telecommunications Union ("ITU") filing and that is either in orbit or progressing towards launch.

Finally, Intelsat requests that the waivers previously granted to Intelsat 31 at 95.05° W.L. be extended to the satellite at 132.0° W.L. In particular, Intelsat requests that the previously-granted waivers of Sections 25.202(a)(1) and 25.210(f) be extended to the satellite at 132.0° W.L., for the reasons previously set forth in the previous grant.

The IOT of Intelsat 31's C- and Ku-band payloads at 132.0° W.L. is a critical step in ensuring that the satellite will be fully operational at 95.05° W.L. This, in turn, will provide additional capacity to customers at the 95.05° 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,



Cynthia J. Grady  
Regulatory Counsel  
Intelsat Corporation

cc: Stephen Duall  
Jay Whaley  
Cindy Spiers