

S2831

SAT-STA-20121015-00181

IB2012002402

Intelsat License LLC  
Intelsat 23



\*with conditions

File # SAT-STA-20121015-00181

Call Sign S2831 Grant Date 10/25/12

(or other identifier)

Term Dates period of

From 10/19/12 To: 30 days

Approved: *Stephen J. Dvall*

Stephen J. Dvall  
Chief, Satellite Policy Branch

Approved by OMB  
3060-0678

Date & Time Filed: Oct 15 2012 6:32:50:080PM

File Number: SAT-STA-20121015-00181

Call sign:

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:

Further Extension of STA to Conduct IOT of Intelsat 23 (Call Sign S2831)

I. Applicant

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

**Attachment to Grant**  
**IBFS File No. SAT-STA-20121015-00181**  
**Call Sign S2831**

The application of Intelsat License LLC (Intelsat) for special temporary authority, IBFS File No. SAT-STA-20121015-00181, is GRANTED. Accordingly, Intelsat is authorized for a period of 30 days, commencing on October 19, 2012, to continue to conduct in-orbit testing of the Intelsat 23 space station (Call Sign S2831) at the 51.5° W.L. orbital location using the 3700 – 4200 MHz (space-to-Earth), 5925 – 6425 MHz (Earth-to-space), 11.45 – 11.70 GHz (space-to-Earth), 11.7 – 12.2 GHz (space-to-Earth), and 14.0 – 14.5 GHz (Earth-to-space) frequency bands.

Additionally, Intelsat is granted authority to continue to conduct telemetry, tracking, and command (TT&C) operations using center frequencies of 6173.7 MHz and 6176.3 MHz (Earth-to-space) and 3947.5/3948 MHz or 3952/3952.5 MHz (space-to-Earth) necessary to maintain Intelsat 23 at 51.5° W.L. and to drift the Intelsat 23 space station to its authorized location of 53.0° W.L. Operations under this authorization must be in accordance with the terms and conditions contained 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 shall be on an unprotected and non-harmful interference basis, *i.e.*, Intelsat shall 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 shall cease operations immediately upon notification of such interference, and shall inform the Commission, in writing, immediately of such an event.

3. Intelsat shall coordinate the operations of Intelsat 23 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 to the 53.0° W.L. orbital location.

4. Intelsat 23's operations at 51.5° W.L. shall be limited to IOT in the 3700 – 4200 MHz (space-to-Earth), 5925 – 6425 MHz (Earth-to-space), 11.45-11.70 GHz (space-to-Earth), 11.7 – 12.2 GHz (space-to-Earth), and 14.0 – 14.5 GHz (Earth-to-space) frequency bands and shall not include the provision of commercial services.

5. Intelsat shall operate only the TT&C frequencies on Intelsat 23 during the space station's drift from the 51.5° W.L. orbital location to the 53.0° W.L. orbital location.


6. During in-orbit testing, Intelsat shall maintain the Intelsat 23 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 in the 3700 – 4200 MHz (space-to-Earth), 5925 – 6425 MHz (Earth-to-space), 11.45-11.70 GHz (space-to-Earth), 11.7 – 12.2 GHz (space-to-Earth), and 14.0 – 14.5 GHz (Earth-to-space) at 51.5° W.L. must comply with the conditions imposed in IBFS File No. SAT-LOA-20110727-00139 (granted February 23, 2012).

**Attachment to Grant**  
**IBFS File No. SAT-STA-20121015-00181**  
**Call Sign S2831**

8. Any action taken or expense incurred as a result of operations pursuant to this grant of special temporary authority is at Intelsat's own risk.

9. 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	<b>File #</b> <u>SAT-STA-20121015-00181</u>
	<b>Call Sign</b> <u>S2831</u> <b>Grant Date</b> <u>10/25/12</u>
	<b>(or other identifier)</b>
	<b>Term Dates</b> <u>period of</u>
	<b>From</b> <u>10/19/12</u> <b>To:</b> <u>30 days</u>
<b>Approved:</b> <u><i>Stephen J. Duall</i></u> Stephen J. Duall Chief, Satellite Policy Branch	

\*with conditions

2. Contact	
<b>Name:</b> Susan H. Crandall	<b>Phone Number:</b> 202-944-7848
<b>Company:</b> Intelsat Corporation	<b>Fax Number:</b> 202-944-7870
<b>Street:</b> 3400 International Drive, N.W.	<b>E-Mail:</b> susan.crandall@intelsat.com
<b>City:</b> Washington	<b>State:</b> DC
<b>Country:</b> USA	<b>Zipcode:</b> 20008 -3006
<b>Attention:</b> Susan H. Crandall	<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 2012-11-17 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 an additional 30 days, from October 19, 2012 through November 17, 2012, of the Special Temporary Authority previously granted Intelsat to conduct in-orbit testing of Intelsat 23 (Call Sign S2831) at 51.5 W.L. in the bands 3700-4200 MHz (downlink), 5925-6425 MHz (uplink), 11450-11700 MHz, 11700-12200 MHz (downlink),

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  
Susan H. Crandall

11. Title of Person Signing  
Asst. General 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).

**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.**

## **8. Description**

Intelsat License LLC herein requests an additional 30 days, from October 19, 2012 through November 17, 2012, of the Special Temporary Authority previously granted Intelsat to conduct in-orbit testing of Intelsat 23 (Call Sign S2831) at 51.5 W.L. in the bands 3700-4200 MHz (downlink), 5925-6425 MHz (uplink), 11450-11700 MHz, 11700-12200 MHz (downlink), and 14000-14500 MHz (uplink), and to drift the satellite to its permanent location of 53.0 W.L.

October 15, 2012

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



Re: Request for Further Extension of Special Temporary Authority to  
Conduct In-Orbit Testing of Intelsat 23  
(File No. SAT-LOA-20110727-00139)  
Call Sign S2831

Dear Ms. Dortch:

Intelsat License LLC (“Intelsat”) herein requests an additional 30 days —from October 19, 2012 through November 17, 2012 — of the Special Temporary Authority (“STA”)<sup>1</sup> previously granted Intelsat to conduct in-orbit testing (“IOT”) of Intelsat 23 (Call Sign S2831) at 51.5° W.L. in the bands 3700-4200 MHz (downlink), 5925-6425 MHz (uplink), 11450-11700 MHz, 11700-12200 MHz (downlink), and 14000-14500 MHz (uplink),<sup>2</sup> and to drift the satellite to its permanent location of 53.0° W.L.<sup>3</sup> The launch of Intelsat 23 was delayed and occurred on October 14, 2012. In support of its extension request, Intelsat submits the following information.

During in-orbit testing of Intelsat 23, 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 707 at 53.0° W.L., Intelsat 805 at 55.5° W.L., Galaxy 11 at 55.5° W.L., Intelsat 1R at 50.0° W.L., NSS 703 at 47.05° W.L., TDRS 3 at 49.0° W.L., and Inmarsat 3-F4 at

---

<sup>1</sup> Intelsat has filed this STA request, an FCC Form 159, a \$860.00 filing fee and this supporting letter electronically via the International Bureau’s Filing System (“IBFS”).

<sup>2</sup> See *Intelsat License LLC*, Request for Extension of Special Temporary Authority for Intelsat 23, Call Sign S2831, File No. SAT-STA-20120913-00149 (filed Sept. 13, 2012); *Policy Branch Information; Actions Taken*, Report No. SAT-00889, File No. SAT-STA-20120628-00106 (Aug. 10, 2012) (Public Notice).

<sup>3</sup> See *Policy Branch Information; Actions Taken*, Report No. SAT-00848, File No. SAT-LOA-20110727-00139 (Feb. 24, 2012) (Public Notice). During the drift from 51.5° W.L. to 53.0° W.L., only the satellite’s TT&C frequencies will be utilized. The TT&C frequencies are 6173.7 (LHCP) and 6176.3 (LCHP) (uplink) and 3947.5 (RHCP), 3948.0 (RHCP), 3952.0 (RHCP), 3952.5 (RHCP) (downlink).



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

54.0° W.L. Intelsat currently is in coordination discussions with SES World Skies, the operator of NSS 703; Inmarsat, the operator of Inmarsat 3-F4; and the United States Government, the operator of the TDRS 3, regarding the Intelsat 23 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 in-orbit testing at 51.5° W.L. Intelsat 23 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 23. Finally, Intelsat is not aware of any system with an overlapping station-keeping volume with Intelsat 23 that is the subject of an ITU filing and that is either in orbit or progressing towards launch.

The in-orbit testing of Intelsat 23 at 51.5° W.L. is a critical step in ensuring that the satellite will be fully operational at 53.0° W.L. This, in turn, will ensure continuity of service to customers at the 53.0° W.L. location, and thereby promotes the public interest.

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

Sincerely,



Susan H. Crandall  
Assistant General Counsel  
Intelsat Corporation

Cc: Robert Nelson  
Kathryn Medley  
Stephen Duall  
Jay Whaley  
Cindy Spiers