

File # SAT-STA-2011 0915 - 00182
Call Sign S2817 Grant Date 09/29/11
(or other identifier) Term Dates period of
From 10/14/11 To: 30 days

Approved by OMB
3060-0678

Approved: *Stephen J. Duall*
Stephen J. Duall
Chief, Satellite Policy Branch



Date & Time Filed: Sep 15 2011 4:36:06:736PM
File Number: SAT-STA-20110915-00182
Callsign:

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:
STA to Conduct IOT of Intelsat 18 (Call Sign S2817).


1. Applicant

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

Attachment to Grant
Application of Intelsat License LLC for Special Temporary Authority
IBFS File No. SAT-STA-20110915-00182

The request of Intelsat License LLC (Intelsat) for special temporary authority (STA), IBFS File No. SAT-STA-20110915-00182, to perform in-orbit testing of the Intelsat 18 space station (Call Sign S2817) at the 176.0° E.L. orbital location is granted for a period of 30 days, commencing on October 14, 2011. Accordingly, Intelsat is authorized to operate the communications payload on Intelsat at the 176.0° E.L. orbital location in the following frequency bands: 3700-4200 MHz (space-to-Earth), 5925-6425 MHz (Earth-to-space), 10950-11200 MHz, 11450-11700 MHz, and 12250-12750 MHz (space-to-Earth), and 14000-14500 MHz (Earth-to-space). Additionally, Intelsat is authorized to operate Telemetry, Tracking, and Telecommand (TT&C) on Intelsat 18 both to support testing operations at the 176.0° E.L. orbital location, and to effect Intelsat 18's drift to its authorized location of 180.0° E.L. at the completion of in-orbit testing, using the following center frequencies: 3947.5 MHz, and 3952.5 MHz (space-to-Earth); 6173.7 MHz and 6176.3 MHz (Earth-to-space). This authorization is granted subject to the technical parameters specified in Intelsat's application, the rules of the Federal Communication Commission (Commission), and the following conditions.

1. All operations shall be on an unprotected and non-harmful interference basis, *i.e.*, Intelsat 18 shall not cause harmful interference to, and shall not claim protection from interference caused to it by, any other lawfully operating radiocommunication system.
2. In the event of any harmful interference as a result of the operations of Intelsat 18 at the 176.0° E.L. orbital location or during its drift to the 180.0° E.L. orbital location, Intelsat shall cease operations immediately upon notification of such interference and shall inform the Commission immediately, in writing, of such an event.
3. Intelsat shall coordinate the operations of Intelsat with existing geostationary satellites to ensure that no unacceptable interference results from its operations at the 176.0° E.L. orbital location.
4. Operations under this grant of special temporary authority are for in-orbit testing purposes only and shall not include provision of commercial service.
5. Intelsat shall operate only the TT&C frequencies on Intelsat 18 during the space station's drift from the 176.0° E.L. orbital location to the 180.0° E.L. orbital location.
6. During the in-orbit testing period, Intelsat shall maintain the Intelsat space station within an east/west longitudinal station-keeping tolerance of ± 0.05 degrees of the 176.0° E.L. orbital location.
7. Intelsat is afforded 30 days from the date of release of this grant and authorization to decline this authorization as conditioned. Failure to respond within this period will constitute formal acceptance of the authorization as conditioned.
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. Petitions for reconsideration under Section 1.106 or applications for review under Section 1.115 of the Commission's rules, 47 C.F.R. §§ 1.106, 1.115, may be filed within 30 days of the date of the public notice indicating that this action was taken.

 GRANTED* International Bureau *with conditions	File # <u>SAT-STA-20110915-00182</u>
	Call Sign <u>S2817</u> Grant Date <u>09/29/11</u> (or other identifier)
	Term Dates period of From <u>10/14/11</u> To: <u>150 days</u>
	Approved: <u>Stephen J. Duall</u> Stephen J. Duall Chief, Satellite Policy Branch

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 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

<p>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.)</p> <div style="border: 1px solid black; padding: 5px;"> <p>Intelsat License LLC herein requests a grant of Special Temporary Authority for 30 days, from October 14, 2011 through November 12, 2011, to conduct in-orbit testing of Intelsat 18 (call sign S2817) at 176.0 E.L. in the bands 3700-4200 MHz (downlink), 5925-6425 MHz (uplink), 10950-11200 MHz, 11450-11700 MHz, and 12250-12750 MHz (downlink), and 14000-</p> </div>					
<p>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.</p> <p style="text-align: right;"> <input checked="" type="radio"/> Yes <input type="radio"/> No </p>					
<p>10. Name of Person Signing Susan H Crandall</p>	<p>11. Title of Person Signing Asst. General Counsel, Intelsat Corporation</p>				
<p>12. Please supply any need attachments.</p> <table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">Attachment 1: STA Request</td> <td style="width: 50%;">Attachment 2:</td> </tr> <tr> <td>Attachment 3:</td> <td></td> </tr> </table>		Attachment 1: STA Request	Attachment 2:	Attachment 3:	
Attachment 1: STA Request	Attachment 2:				
Attachment 3:					
<p>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).</p>					

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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.

8. Description

Intelsat License LLC herein requests a grant of Special Temporary Authority for 30 days, from October 14, 2011 through November 12, 2011, to conduct in-orbit testing of Intelsat 18 (call sign S2817) at 176.0 E.L. in the bands 3700-4200 MHz (downlink), 5925-6425 MHz (uplink), 10950-11200 MHz, 11450-11700 MHz, and 12250-12750 MHz (downlink), and 14000-14500 MHz (uplink) and to drift the satellite to its permanent location of 180.0 E.L.

September 15, 2011

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



Re: Request for Special Temporary Authority to Conduct In-Orbit Testing of Intelsat 18; Call Sign: S2817

Dear Ms. Dortch:

Intelsat License LLC ("Intelsat") herein requests a grant of Special Temporary Authority ("STA")¹ for 30 days, from October 14, 2011 through November 12, 2011, to conduct in-orbit testing ("IOT") of Intelsat 18 (call sign S2817) at 176.0° E.L. in the bands 3700-4200 MHz (downlink), 5925-6425 MHz (uplink), 10950-11200 MHz, 11450-11700 MHz, and 12250-12750 MHz (downlink), and 14000-14500 MHz (uplink) and to drift the satellite to its permanent location of 180.0° E.L.² Intelsat 18 currently is scheduled to be launched on October 4, 2011. In support of its request, Intelsat submits the following information.

During in-orbit testing of Intelsat 18, Intelsat will operate in the above referenced C- and Ku-bands. Intelsat currently is in the process of coordinating the planned in-orbit testing of Intelsat 18 with all operators of satellites operating co-frequency up to six degrees away from 176.0° E.L. Specifically, Intelsat is coordinating the proposed testing with Inmarsat, the operator of the Inmarsat 3 F-3 satellite at 178.0° E.L. and with GE Holdings, the operator of the GE 23 satellite at 172.0° E.L. Intelsat will internally coordinate the proposed testing with its own Intelsat 701 satellite at 180.0° E.L. and Intelsat 602 satellite at 177.85° E.L. 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 176.0° E.L. Intelsat 18 will not be

¹ Intelsat has filed this STA request, an FCC Form 159 and an \$830.00 filing fee electronically via the International Bureau's Filing System.

² See *Policy Branch Information; Actions Taken*, Report No. SAT-00796, File No. SAT-LOA-20101014-00219 (July 29, 2011) (Public Notice). During the drift from 176.0° E.L. to 180.0° E.L., only the satellite's TT&C frequencies will be utilized.


Ms. Marlene H. Dortch
September 15, 2011
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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 18. Finally, Intelsat is not aware of any system with an overlapping station-keeping volume with Intelsat 18 that is the subject of an ITU filing and that is either in orbit or progressing towards launch.

The in-orbit testing of Intelsat 18 at 176.0° E.L. is a critical step in ensuring that the satellite will be fully operational at 180.0° E.L. This, in turn, will ensure continuity of service to customers at the 180.0° E.L. location, and thereby promotes the public interest.

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

Sincerely,



Susan H. Crandall
Assistant General Counsel
Intelsat Corporation

Cc: Robert Nelson
Kathryn Medley
Stephen Duall
Jay Whaley