


**GRANTED\***  
 International Bureau  
 \*with conditions

File # SAT-STA-20120621-00103  
 Call Sign S2380 Grant Date 10/26/12  
 (or other identifier)  
 Term Dates period of  
 From 11/01/12 To: 180 days  
 Approved: Stephen J. Duall  
 Stephen J. Duall  
 Chief, Satellite Policy Branch

Approved by OMB  
3060-0678

Date & Time Filed: Jun 21 2012 5:32:32:756PM  
 File Number: SAT-STA-20120621-00103  
 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 Special Temporary Authority to Drift and Operate Intelsat 9 (Call Sign S2380)

1. 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		

**Intelsat License LLC**  
**IBFS File No. SAT–STA–20120621–00103**  
**Call Sign S2380**

The application of Intelsat License LLC (Intelsat) for special temporary authority, IBFS File No. SAT–STA–20120621–00103, IS GRANTED. Specifically, Intelsat is authorized, for a period of 180 days, commencing on November 1, 2012, to conduct telemetry, tracking, and command functions necessary to drift the Intelsat 9 space station (Call Sign S2380) from the 58.0° W.L. orbital location to the 43.10° W.L. orbital location in the 11.7005 GHz (space-to-Earth), 11.7025 GHz (space- to-Earth), 14.4945 GHz (Earth-to-space), and 14.0005 GHz (Earth-to-space) frequency bands. Intelsat is also authorized to operate Intelsat 9 temporarily at the 43.10° W.L. orbital location to provide Fixed-Satellite Service (FSS) in 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. 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 must be on an unprotected and non-harmful interference basis, *i.e.*, Intelsat must not cause harmful interference to, and must 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 under this grant of special temporary authority, Intelsat must cease operations immediately upon notification of such interference and must immediately inform the Commission, in writing, of such an event.

3. Intelsat must maintain its space station within an east-west longitudinal station-keeping tolerance of  $\pm 0.05^\circ$  of the 43.10° W.L. orbital location.

4. Grant of this authorization is without prejudice to any determination that the Commission may make regarding Intelsat’s pending application for regular authority to operate Intelsat 9 at the 43.1° W.L. orbital location (IBFS File No. SAT-MOD-20120703-00110) or its pending application with respect to the 11.7-12.2 GHz, 12.5-12.7 GHz, and 14.0-14.5 GHz frequency bands at the 43.0° W.L. orbital location (IBFS File No. SAT-MS-20100102-00232).

5. Intelsat’s request for waiver of footnote NG 104 of Section 2.106 and footnote 2 of Section 25.202(a)(1) is GRANTED, as conditioned. Consistent with previous waivers granted to Intelsat 9,<sup>1</sup> we find that, with respect to the domestic use of the 11.45-11.7 GHz band, waiver of footnote NG104 of Section 2.106 and footnote 2 of Section 25.202(a)(1) would not undermine the rule’s purpose because receive-only earth stations are not capable of causing interference into fixed stations operating in the same frequency band. Furthermore, Intelsat cannot claim protection from interference caused to it by fixed stations operating in the 11.45-11.7 GHz frequency band.

6. Intelsat is required to inform its customers, in writing, including end-users receiving service from resellers accessing capacity on the Intelsat 9 space station, that domestic service in the United States in the 11.45-11.70 GHz frequency band is being provided on an unprotected basis, and is therefore subject to interference from fixed stations authorized to

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<sup>1</sup> *PanAmSat Licensee Corp. Application for Authority to Use Extended Ku-Band Frequencies for Domestic Service*, Order and Authorization, 20 FCC Rcd 14642 (2005).

**Intelsat License LLC**  
**IBFS File No. SAT-STA-20120621-00103**  
**Call Sign S2380**

operate in the 11.45-11.7 GHz frequency band.

7. Intelsat's use of the 11.45-11.7 GHz frequency band is subject to footnote US211 to the United States Table of Frequency Allocations, 47 C.F.R. § 2.106, US211, which urges applicants for airborne or space station assignments to take all practicable steps to protect radio astronomy observations in the adjacent bands from harmful interference, consistent with footnote US74.

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.



\*with conditions

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Term Dates period of  
From 11/01/12 To: 180 days

Approved: Stephen C. Duall

Stephen C. Duall  
Chief, Satellite Policy Branch

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,	<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 checked="" type="radio"/> Change Station Location <input type="radio"/> Extend Expiration Date <input 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 Special Temporary Authority for 180 days, commencing November 1, 2012, to drift Intelsat 9 (call sign S2380) from 58.0 W.L. to 43.10 W.L. and operate at 43.10 W.L. in inclined orbit mode.

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**

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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.**

June 21, 2012

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



Re: Request for Special Temporary Authority to Drift and Operate  
Intelsat 9 (Call Sign S2380)

Dear Ms. Dortch:

Intelsat License LLC ("Intelsat") herein requests Special Temporary Authority ("STA")<sup>1</sup> for 180 days, commencing November 1, 2012, to drift Intelsat 9 (call sign S2380) from 58.0° W.L. to 43.10° W.L. and operate at 43.10° W.L. in inclined orbit mode.<sup>2</sup> At the nominal orbital location of 43.0° W.L., Intelsat 9 will operate co-located with Intelsat 11.<sup>3</sup>

Intelsat 9 currently is authorized to operate at 58.0° W.L.<sup>4</sup> Intelsat 21 (call sign S2863), which currently is scheduled for launch on August 15, 2012, will replace Intelsat 9 at 58.0° W.L.<sup>5</sup> Following traffic transfer from Intelsat 9 to Intelsat 21, Intelsat 9 will be relocated to 43.10° W.L.<sup>6</sup> Subject to receipt of

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<sup>1</sup> Intelsat has filed this STA request, an FCC Form 159 and an \$860.00 filing fee electronically via the International Bureau's Filing System.

<sup>2</sup> Intelsat expects to begin inclined orbit operations after traffic has been transferred and before the satellite begins drifting. The satellite's expected end of life, assuming the drift and inclined orbit operations, is September 2023.

<sup>3</sup> Intelsat will shortly file an application to modify the Intelsat 9 license to allow the satellite's permanent redeployment to 43.10° W.L.

<sup>4</sup> See *PanAmSat Licensee Corp. Application for Authority to Construct, Launch and Operate an Expansion Band Satellite in its Separate International Communications Satellite System*, Order and Final Authorization, 13 FCC Rcd 4743 (1997) and *PanAmSat Licensee Corp. Application for Authority to Use Extended Ku-Band Frequencies for Domestic Service*, Order and Authorization, 20 FCC Rcd 14642 (2005).

<sup>5</sup> See *Policy Branch Information; Satellite Space Applications Accepted for Filing*, Report No. SAT-00862, File No. SAT-RPL-20120326-00061 (Apr. 27, 2012) (Public Notice).

<sup>6</sup> Intelsat has a pending Petition for Specific Authority Under Section 25.161(c) seeking authority to retain its license to the 11.7-12.2 GHz and 14.0-14.5 GHz Ku-band frequencies at the nominal 43.0° W.L. orbital location. See *Policy Branch Information; Satellite Space Applications Accepted for Filing*, Report

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FCC approval, Intelsat expects to begin drifting Intelsat 9 on November 1, 2012 and have the satellite on-station at 43.10° W.L. by the end of December 2012.

During the drift of Intelsat 9 from 58.0° W.L. to 43.10° W.L., Intelsat will utilize only the satellite's TT&C frequencies and will follow industry practices for coordinating TT&C transmissions during the relocation process. The specific TT&C frequencies are as follows:

Uplink:

14494.5 MHz (V)

14000.5 MHz (RHCP)

Downlink:

11700.5 MHz (V)

11702.5 MHz (V)

11700.5 MHz (RHCP)

11702.5 MHz (RHCP)

11700.5 MHz (H)

11702.5 MHz (H)

The Intelsat 9 communications frequencies are as follows:

Uplink:

5925 – 6425 MHz

14000 – 14500 MHz

Downlink:

3700 – 4200 MHz

11450 – 11700 MHz

11700 – 12200 MHz



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Grant of this STA request is in the public interest because it will allow Intelsat to expand customer services at the 43.10° W.L. location.<sup>7</sup>

Grant of this STA request will not result in increased risk of harmful interference. As noted above, Intelsat will operate only the above listed TT&C frequencies during the drift, and will coordinate its TT&C transmissions with operators of satellites in the drift path. Should any interference occur during the drift, Intelsat will take all reasonable steps to eliminate such interference. Once on-station, Intelsat will operate the TT&C and communications frequencies in accordance with its coordination agreements governing the nominal 43.0° W.L. location.

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. Intelsat 9 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.<sup>8</sup> 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 9 at 43.10° W.L. Finally, Intelsat is not aware of any system with an overlapping station-keeping volume with Intelsat 9 at 43.10° W.L. that is the subject of an ITU filing and that is either in orbit or progressing towards launch.

Intelsat also requests that the waiver previously granted Intelsat 9 of footnote NG 104 of Section 2.106 and footnote 2 of Section 25.202(a)(1) with respect to the domestic use of the 11450-11700 MHz band continue to apply at 43.10° W.L.<sup>9</sup>

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<sup>7</sup> As noted above, all customers with current contracts operating on Intelsat 9 at 58.0° W.L. at the time of the planned redeployment to 43.10° W.L. will be accommodated on Intelsat 21 prior to the former satellite's drift.

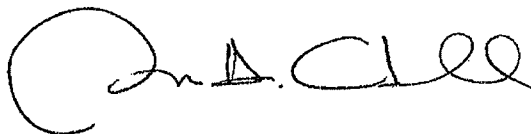
<sup>8</sup> Intelsat 9 and Intelsat 11 will be operated in adjacent station-keeping boxes.

<sup>9</sup> *PanAmSat Licensee Corp. Application for Authority to Use Extended Ku-Band Frequencies for Domestic Service*, Order and Authorization, 20 FCC Rcd 14642 (2005).

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

Sincerely,

A handwritten signature in black ink, appearing to read "S.H. Crandall". The signature is fluid and cursive, with a large initial "S" and "C".

Susan H. Crandall  
Assistant General Counsel  
Intelsat Corporation

cc: Stephen Duall  
Jay Whaley