

S2396 SAT-STA-20110512-00089 IB2011001384  
Intelsat License LLC  
Intelsat 709



Date & Time Filed: May 12 2011 3:28:58:143PM  
File Number: SAT-STA-20110512-00089  
Callsign:

File # SAT-STA-20110512-00089

Call Sign S2396 Grant Date 05/24/11

(or other identifier)

Term Dates period of

From 05/25/11 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 STA to Drift and Operate Intelsat 709 at 72.10 E.L. (Call Sign S2396)

I. Applicant

Name:	Intelsat License LLC	Phone Number:	202-944-7848
DBA Name:		Fax Number:	202-944-7870
Street:	c/o Intelsat Corporation 3400 International Drive, N.W.	E-Mail:	susan.crandall@intelsat.com
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-20110512-00089**

The application of Intelsat License LLC (Intelsat) for special temporary authority, IBFS File No. SAT-STA-20110512-00089, is GRANTED in part and DISMISSED in part. Accordingly, Intelsat is authorized, for a period of 30 days commencing on May 25, 2011, to conduct Telemetry, Tracking, and Command operations with the Intelsat 709 space station (Call Sign S2396) necessary to drift the Intelsat 709 space station from the 54.85° E.L. orbital location to the 72.1° E.L. orbital and to maintain Intelsat 709 at the 72.1° E.L. location using the following center frequencies: 6173.7 MHz, 6176.3 MHz (left-hand circular polarization/Earth-to-space); 3947.5 MHz, 3948.0 MHz, 3952.5 MHz, and 3952.0 MHz (right-hand circular polarization/space-to-Earth). We dismiss, without prejudice, Intelsat's request to operate the communications payload on Intelsat 709 to provide Fixed-Satellite Service at the 72.1° E.L. orbital location on a temporary basis in the following frequency bands: 3700-4200 MHz (space-to-Earth), 5925-6425 MHz (Earth-to-space), 10950-11200 MHz, 11450-11700 MHz, and 12500-12750 MHz (space-to-Earth), and 14000-14500 MHz (Earth-to-space). In its application, Intelsat states that the Intelsat 709 is not expected to be on-station at the 72.1° E.L. orbital location until early July 2011. As such, the proposed operations at 72.1° E.L. are outside the scope of the requested 30-day STA period.<sup>1</sup>

This authorization shall be in accordance with the technical specifications set forth in Intelsat's application, Federal Communications Commission (Commission) rules, and is subject to the following conditions:

1. All operations during the drift to the 72.1° E.L. orbital location 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 during Intelsat 709's drift to the 72.1° E.L. orbital location, 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 not operate Intelsat 709's communications payload during the drift to the 72.1° E.L. orbital location.
4. Any action taken or expense incurred as a result of operations pursuant to this special temporary authority is solely at Intelsat's own risk.
5. Grant of this authorization is without prejudice to any determination that the Commission may make regarding Intelsat's pending application to relocate the Intelsat 709 space station from the 54.85° E.L. orbital location to the 72.1° E.L. orbital location (IBFS File No. SAT-MOD-20110428-00081).

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<sup>1</sup> Intelsat proposed operations of the Intelsat 709 space station at the 72.1° E.L. orbital location in the 3700-4200 MHz (space-to-Earth), 5925-6425 MHz (Earth-to-space), 10950-11200 MHz, 11450-11700 MHz, and 12500-12750 MHz (space-to-Earth), and 14000-14500 MHz (Earth-to-space) frequency bands are also the subject of a pending 180-day STA request. See IBFS File No. SAT-STA-20110316-00055.

**Attachment to Grant**  
**Application of Intelsat License LLC for Special Temporary Authority**  
**IBFS File No. SAT-STA-20110512-00089**

6. This grant of special temporary authority is without prejudice (1) to any decision with respect to any replacement expectancy at the 72.1° E.L. orbital location, or (2) any action on the Petition for Specific Authority Under Section 25.161(c) filed by PanAmSat Licensee Corp. on April 5, 2010, to retain authority to use C- and Ku-band frequencies at the nominal 72° E.L. orbital location (IBFS File No. SAT-MS-20100405-00117).

7. 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.

- GRANT IN PART / DISMISS IN PART -



\*with conditions

File # SAT-STA-20110512-00089  
Call Sign S2396 Grant Date 05/24/11  
(or other identifier)  
Term Dates period of  
From 05/25/11 To: 30 days  
Approved: Stephen J. Duall

Stephen J. Duall  
Chief, Satellite Policy Branch

**Attachment to Grant**  
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The application of Intelsat License LLC (Intelsat) for special temporary authority, IBFS File No. SAT-STA-20110512-00089, is GRANTED in part and DISMISSED in part. Accordingly, Intelsat is authorized, for a period of 30 days commencing on May 25, 2011, to conduct Telemetry, Tracking, and Command operations with the Intelsat 709 space station (Call Sign S2396) necessary to drift the Intelsat 709 space station from the 54.85° E.L. orbital location to the 72.1° E.L. orbital and to maintain Intelsat 709 at the 72.1° E.L. location using the following center frequencies: 6173.7 MHz, 6176.3 MHz (left-hand circular polarization/Earth-to-space); 3947.5 MHz, 3948.0 MHz, 3952.5 MHz, and 3952.0 MHz (right-hand circular polarization/space-to-Earth). We dismiss, without prejudice, Intelsat's request to operate the communications payload on Intelsat 709 to provide Fixed-Satellite Service at the 72.1° E.L. orbital location on a temporary basis in the following frequency bands: 3700-4200 MHz (space-to-Earth), 5925-6425 MHz (Earth-to-space), 10950-11200 MHz, 11450-11700 MHz, and 12500-12750 MHz (space-to-Earth), and 14000-14500 MHz (Earth-to-space). In its application, Intelsat states that the Intelsat 709 is not expected to be on-station at the 72.1° E.L. orbital location until early July 2011. As such, the proposed operations at 72.1° E.L. are outside the scope of the requested 30-day STA period.<sup>1</sup>

This authorization shall be in accordance with the technical specifications set forth in Intelsat's application, Federal Communications Commission (Commission) rules, and is subject to the following conditions:

1. All operations during the drift to the 72.1° E.L. orbital location 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 during Intelsat 709's drift to the 72.1° E.L. orbital location, 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 not operate Intelsat 709's communications payload during the drift to the 72.1° E.L. orbital location.
4. Any action taken or expense incurred as a result of operations pursuant to this special temporary authority is solely at Intelsat's own risk.
5. Grant of this authorization is without prejudice to any determination that the Commission may make regarding Intelsat's pending application to relocate the Intelsat 709 space station from the 54.85° E.L. orbital location to the 72.1° E.L. orbital location (IBFS File No. SAT-MOD-20110428-00081).

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<sup>1</sup> Intelsat proposed operations of the Intelsat 709 space station at the 72.1° E.L. orbital location in the 3700-4200 MHz (space-to-Earth), 5925-6425 MHz (Earth-to-space), 10950-11200 MHz, 11450-11700 MHz, and 12500-12750 MHz (space-to-Earth), and 14000-14500 MHz (Earth-to-space) frequency bands are also the subject of a pending 180-day STA request. See IBFS File No. SAT-STA-20110316-00055.

**Attachment to Grant**  
**Application of Intelsat License LLC for Special Temporary Authority**  
**IBFS File No. SAT-STA-20110512-00089**

6. This grant of special temporary authority is without prejudice (1) to any decision with respect to any replacement expectancy at the 72.1° E.L. orbital location, or (2) any action on the Petition for Specific Authority Under Section 25.161(c) filed by PanAmSat Licensee Corp. on April 5, 2010, to retain authority to use C- and Ku-band frequencies at the nominal 72° E.L. orbital location (IBFS File No. SAT-MS-20100405-00117).

7. 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.

<b>2. Contact</b>			
<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 SATMOD2011042800081 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

<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 Special Temporary Authority for 30 days beginning May 25, 2011 to drift Intelsat 709 (call sign S2396) from 54.85 E.L. to 72.10 E.L. and begin operating at 72.10 E.L. At 72.10 E.L., Intelsat 709 will provide station-kept service continuity to Intelsat 706 customers when the latter satellite is placed in inclined</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 &amp;quot;party to the application&amp;quot;; 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 colspan="2">Attachment 3:</td> </tr> </table>		Attachment 1: STA Request	Attachment 2:	Attachment 3:	
Attachment 1: STA Request	Attachment 2:				
Attachment 3:					
<p style="text-align: center;"> <b>WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT</b>            (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>					

## **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.**



## **8. Description**

Intelsat License LLC herein requests Special Temporary Authority for 30 days beginning May 25, 2011 to drift Intelsat 709 (call sign S2396) from 54.85 E.L. to 72.10 E.L. and begin operating at 72.10 E.L. At 72.10 E.L., Intelsat 709 will provide station-kept service continuity to Intelsat 706 customers when the latter satellite is placed in inclined orbit.

May 12, 2011

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 709  
Call Sign S2396

Dear Ms. Dortch:

Intelsat License LLC ("Intelsat") herein requests Special Temporary Authority ("STA")<sup>1</sup> for 30 days beginning May 25, 2011 to drift Intelsat 709 (call sign S2396) from 54.85° E.L. to 72.10° E.L. and begin operating at 72.10° E.L. Intelsat has a pending application to permanently modify the license for Intelsat 709, as well as a pending 180-day STA request to redeploy Intelsat 709 to 72.10° E.L.<sup>2</sup> Because neither pending application can be granted in time for the scheduled start of drift, however, Intelsat files this 30-day STA request. At 72.10° E.L., Intelsat 709 will provide station-kept service continuity to Intelsat 706 customers when the latter satellite is placed in inclined orbit.

Intelsat 709 is currently authorized to operate at 54.85° E.L. pursuant to the ITU filings of the Indian Administration.<sup>3</sup> Following traffic transfer from Intelsat 709 to other satellites, Intelsat 709 will be relocated to 72.10° E.L. Intelsat 706, which currently operates at the 72.10° E.L. location,<sup>4</sup> must be

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

<sup>2</sup> See *Intelsat License LLC, Application to Modify Authorization for Intelsat 709 (S2396)*, File No. SAT-MOD-20110428-00081 (filed Apr. 28, 2011); see also *Intelsat License LLC Request for Special Temporary Authority*, File No. SAT-STA-20110316-00055 (filed Mar. 16, 2011).

<sup>3</sup> See *Intelsat License LLC Request for Special Temporary Authority*, File No. SAT-STA-20110426-00077 (filed Apr. 26, 2011); *Policy Branch Information; Actions Taken*, Report No. SAT-00770, File No. SAT-STA-20110325-00061 (Apr. 8, 2011) (Public Notice); *Policy Branch Information; Actions Taken*, Report No. SAT-00759, File Nos. SAT-MOD-20091106-00117 and SAT-AMD-20100104-00003 (Feb. 18, 2011) (Public Notice); *Policy Branch Information; Actions Taken*, Report No. SAT-00745, File No. SAT-STA-20101207-00256 (Dec. 17, 2010) (Public Notice).

<sup>4</sup> See *Policy Branch Information; Actions Taken*, Report No. SAT-00763, File No. SAT-STA-20110222-00031 (Mar. 4, 2011) (Public Notice); *Policy Branch*

Ms. Marlene H. Dortch  
May 12, 2011  
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placed in inclined orbit sooner than originally expected.<sup>5</sup> Accordingly, Intelsat 709 is being redeployed to 72.10° E.L. in order to provide continuity of service to customers requiring station-kept capacity at that location. Subject to receipt of FCC approval, Intelsat expects to begin drifting Intelsat 709 on May 25, 2011 and have the satellite on-station at 72.10° E.L. in early July 2011. During the drift of Intelsat 709 from 54.85° E.L. to 72.10° E.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:

6173.7 MHz (LHCP)  
6176.3 MHz (LHCP)

Downlink:

3947.5 MHz (RHCP)  
3948.0 MHz (RHCP)  
3952.5 MHz (RHCP)  
3952.0 MHz (RHCP)

Once located at 72.10° E.L., Intelsat will operate the satellite's communications frequencies, as follows:

Downlink:

3700-4200 MHz  
10950-11200 MHz  
11450-11700 MHz  
12500-12750 MHz

Uplink:

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*Information; Actions Taken*, Report No. SAT-00748, File No. SAT-STA-20101220-00265 (Jan. 7, 2011) (Public Notice); *Policy Branch Information; Actions Taken*, Report No. SAT-00736, File No. SAT-STA-20101022-00223 (Nov. 12, 2010) (Public Notice); *Policy Branch Information; Actions Taken*, Report No. SAT-00720, File No. SAT-STA-20100824-00181 (Sept. 10, 2010) (Public Notice); *Policy Branch Information; Actions Taken*, Report No. SAT-00718, File No. SAT-STA-20100326-00057 (Sept. 3, 2010) (Public Notice).

<sup>5</sup> Intelsat currently expects to put Intelsat 706 in inclined orbit in July 2011.

5925-6425 MHz  
14000-14500 MHz<sup>6</sup>

Grant of this STA request is in the public interest because it will allow Intelsat to ensure continuity of station-kept service at the 72.10° E.L. location.<sup>7</sup> Intelsat expects to have a new satellite – Intelsat 22 – launched to 72.10° E.L. in the first or second quarter of 2012.

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 at 72.10° E.L., Intelsat will operate the communications payload and TT&C frequencies in conformance with its coordination agreements regarding the nominal 72.0° E.L. orbital 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. Except for Intelsat 706, Intelsat 709 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 709. Finally, Intelsat is not aware of any system with an overlapping station-keeping volume with Intelsat 709 that is the subject of an ITU filing and that is either in orbit or progressing towards launch.

Intelsat also requests that the Part 25 waivers originally granted to the Intelsat 709 spacecraft continue to apply at the 72.10° E.L. location, namely, the

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<sup>6</sup> The frequency band 11700-11950 MHz is also on Intelsat 709, but will not be utilized at 72.10° E.L.

<sup>7</sup> As noted above, all customers operating on Intelsat 709 at 54.85° E.L. at the time of the planned redeployment to 72.10° E.L. will be accommodated on other satellites prior to the satellite's drift.

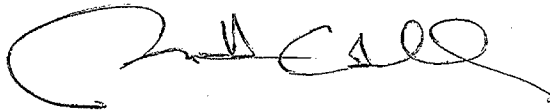
<sup>8</sup> Intelsat 709 and Intelsat 706 will be operated in the same station-keeping box.

Ms. Marlene H. Dortch  
May 12, 2011  
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waivers of Sections 25.202(g), 25.210(a)(1), 25.210(a)(3), 25.210(c), 25.210(i) and 25.211(a) of the Commission's rules.<sup>9</sup>

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 'Susan H. Crandall', with a large, sweeping initial 'S'.

Susan H. Crandall  
Assistant General Counsel  
Intelsat Corporation

cc: Stephen Duall  
Kathryn Medley

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<sup>9</sup> See *Applications of Intelsat LLC for Authority to Operate and Further Construct, Launch, and Operate C-Band and Ku-Band Satellites that Form a Global Communications System in Geostationary Orbit*, 15 FCC Rcd 15460, 15529 (Appendix C) (2000) (Memorandum Opinion Order and Authorization), *recon. denied*, 15 FCC Rcd 25234 (2000) (Order on Reconsideration).