

S2401 SAT-STA-20110810-00159 IB2011003908  
Intelsat License LLC  
Intelsat 706

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Callsign:

Approved by OMB  
3060-0678

File # SAT-STA-20110810-00159  
Call Sign S2401 Grant Date 08/18/11  
(or other identifier) Term Dates period of  
From 08/18/11 To: 30 days



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

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 706, Call Sign S2401

1. 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**  
**IBFS File No. SAT–STA–20110810–00159**  
**Call Sign S2401**

The request of Intelsat License LLC (Intelsat), IBFS File No. SAT–STA–20110810–00159, is granted. Accordingly, Intelsat is authorized for a period of 30 days to operate Telemetry, Tracking, and Telecommand (TT&C) operations with the Intelsat 706 space station (Call Sign S2401) necessary to effect the drift of the space station from the 72.1° E.L. orbital location to the 72.0° E.L. orbital location, and to maintain Intelsat 706 at 72.0° E.L., using the following frequencies: 6173.7 MHz and 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). Additionally, Intelsat is granted authority to provide Fixed-Satellite Service during the drift to and while located at the 72.0° E.L. orbital location on a temporary basis using the 3700-4200 MHz (space-to-Earth), 5925-6425 MHz (Earth-to-space), 10.95-11.2 GHz (space-to-Earth), 11.45-11.70 GHz, (space-to-Earth), 12.50-12.75 GHz (space-to-Earth), and 14.0-14.5 GHz (Earth-to-space) frequency bands. This authorization shall be in accordance with the technical specifications set forth in Intelsat's application, Federal Communications Commission (Commission) rules, and the following conditions:

1. All operations of Intelsat 706 during the drift to and operation at the 72.0° 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 706's drift to or operation at the 72.0° 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 maintain full operational control of Intelsat 706 at all times.
4. Intelsat shall operate Intelsat 706 at the 72.0° E.L. orbital location in accordance with any existing coordination agreements for this location.
5. In connection with the provision of service in any particular country, Intelsat is obliged to comply with the applicable laws, regulations, rules, and licensing procedures of that country.
6. While at the 72.0° E.L. orbital location, Intelsat shall maintain the Intelsat 706 space station with an east/west longitudinal station-keeping tolerance of +/- 0.05 degrees.
7. Grant of this authorization is based on Intelsat's representation that it will dispose of the Intelsat 706 spacecraft at end of life to a minimum altitude of 150 kilometers (perigee) above the geostationary arc, that it has reserved 32.97 kilograms of fuel for this purpose, and that fuel gauging uncertainty has been and will be taken into account in these calculations, using the methods set forth in Intelsat's application.
8. The Part 25 technical waivers previously granted to the Intelsat 706 space station continue to apply to the temporary operations at the 72.0° E.L. orbital location, is granted. *See* Intelsat LLC, Memorandum Opinion and Order, 15 FCC Rcd 15460 (2000), *recon. denied*, 15 FCC Rcd 25234 (2000).

**Attachment to Grant**  
**IBFS File No. SAT-STA-20110810-00159**  
**Call Sign S2401**

9. Intelsat's use of the 10.95-11.2 GHz and 11.45-11.7 GHz bands 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.

10. Intelsat's operation of the Intelsat 706 space station in the 10.95-11.2 GHz and 11.45-11.7 GHz bands is limited to international operations in accordance with footnote NG 104 to the United States Table of Frequency Allocations, 47 C.F.R. § 2.106, NG 104, and footnote 2 of Section 25.202(a)(1) of the Commission's rules, 47 C.F.R. § 25.202(a)(1).

11. Use of the 12.5-12.75 GHz frequency bands is not permitted for Fixed-Satellite Service in the space-to-Earth direction in Region 2.


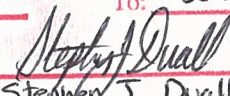
12. Pursuant to footnote US342 of the United States Table of Frequency Allocations, 47 C.F.R. § 2.106, services operating in the 14.47-14.50 GHz band shall take all practicable steps to protect the radio astronomy service from harmful interference.

13. Intelsat shall comply with the power levels specified in Section 25.212 of the Commission's rules, unless it coordinates any operations using power levels exceeding the levels in Section 25.212 with all potentially affected adjacent satellites within 6 degrees orbital separation off the 72.1° E. L. orbital location. Intelsat shall inform the Commission of the power levels it has coordinated. In addition, Intelsat must inform all affected earth station operators that Section 25.220 of the Commission's rules applies to operations that exceed the power levels specified in Section 25.212. In no event shall the uplink input power spectral density level of Intelsat 706's digital carriers exceed -38.7 dBW/Hz into the antenna and the downlink EIRP density of such carriers exceed -34.2 dBW/Hz for the C-band. Further, in no event shall the uplink input power spectral density of Intelsat 706's digital carriers exceed -45 dBW/Hz into the antenna and the downlink EIRP density of such carriers exceed -20.4 dBW/Hz for the Ku-band.

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

15. 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.

16. 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 *with conditions	<b>File #</b> SAT-STA-20110810-00159
	<b>Call Sign</b> S2401 <b>Grant Date</b> 08/18/11
	<b>(or other identifier)</b>
	<b>From</b> 08/18/11 <b>Term Dates</b> period of 30 days
	<b>Approved:</b>  Stephen J. Duall Chief, Satellite Policy Branch

<b>2. Contact</b>			
<b>Name:</b>	Susan H Crandall	<b>Phone Number:</b>	202-944-7848
<b>Company:</b>		<b>Fax Number:</b>	202-944-7870
<b>Street:</b>	c/o Intelsat Corporation	<b>E-Mail:</b>	susan.crandall@intelsat.com
	3400 International Drive, N.W.		
<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	
72.0 E.L.			

<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, commencing upon grant, to drift Intelsat 706 (call sign S2401) from 72.10 E.L. to 72.0 E.L. and to continue operating at 72.0 E.L. in the C- and Ku-bands.</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></td> <td>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 (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).</b></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.**

August 10, 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 706  
Call Sign S2401

Dear Ms. Dortch:

Intelsat License LLC ("Intelsat") herein requests Special Temporary Authority ("STA")<sup>1</sup> for 30 days, commencing upon grant, to drift Intelsat 706 (call sign S2401) from 72.10° E.L. to 72.0° E.L. and to continue operating at 72.0° E.L. in the C- and Ku-bands. Intelsat currently expects to operate Intelsat 706 at 72.0° E.L. only for two to three months before redeploying the satellite to a new location. Intelsat expects shortly to file an application seeking authority for that relocation. In the meantime, however, for the reasons set forth below, Intelsat seeks to operate Intelsat 706 at 72.0° E.L. rather than 72.10° E.L.

Intelsat 706 is currently operating at 72.10° E.L.<sup>2</sup> Following receipt of FCC approval, Intelsat 706 will be relocated to 72.0° E.L. During the drift of Intelsat 706 from 72.10° E.L. to 72.0° E.L., Intelsat will operate both the satellite's TT&C and communications frequencies.

The specific TT&C frequencies are as follows:

Uplink:

6173.7 (LHCP)  
6176.3 (LHCP)

Downlink:

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

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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 *Policy Branch Information; Actions Taken*, Report No. SAT-00768, File No. SAT-MOD-20100511-00098 (Mar. 25, 2011) (Public Notice).

Ms. Marlene H. Dortch  
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The communications frequencies are as follows:

3700 – 4200 MHz (space-to-Earth)  
5925 – 6425 MHz (Earth-to-space)  
10950 – 11200 MHz (space-to-Earth)  
11450 – 11700 MHz (space-to-Earth)  
12500 – 12750 MHz (space-to-Earth)  
14000 – 14500 MHz (Earth-to-space)

Grant of this STA request is in the public interest because it will allow Intelsat to begin drifting Intelsat 706 and operating the satellite at 72.0° E.L. as quickly as possible. This will allow Intelsat to better ensure safe station-keeping of the Intelsat 706 satellite – which currently is co-located with the Intelsat 709 satellite at 72.10° E.L.<sup>3</sup> – following the former satellite's recent commencement of inclined orbit operations.<sup>4</sup>

Grant of this STA request will not result in increased risk of harmful interference. Intelsat had been operating Intelsat 706 and Intelsat 709 in the same station-keeping box without interference. Moreover, at 72.0° E.L., Intelsat will continue to operate the communications payload in conformance with Intelsat's coordination agreements related to that 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 706 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 706 at 72.0° E.L. Finally, Intelsat is not aware of any system with an overlapping station-keeping volume with Intelsat 706 at 72.0° E.L. that is the subject of an ITU filing and that is either in orbit or progressing towards launch.

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<sup>3</sup> See *Policy Branch Information; Actions Taken*, Report No. 00796, File No. SAT-MOD-20110428-00081 (July 29, 2011) (Public Notice).

<sup>4</sup> See Letter from Susan H. Crandall, Intelsat, to Marlene H. Dortch, FCC, Call Sign S2401 (filed July 20, 2011).



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August 10, 2011  
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Intelsat understands and accepts that the conditions applied to the operation of Intelsat 706 at 72.1° E.L. will continue to apply at 72.0° E.L.<sup>5</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". The signature is fluid and cursive, with the first letter of each word being capitalized and prominent.

Susan H. Crandall  
Assistant General Counsel  
Intelsat Corporation

cc: Stephen Duall  
Jay Whaley

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<sup>5</sup> See *supra* n. 2.