

S2391 SAT-STA-20091216-00146 IB2009008125  
Intelsat North America LLC

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File Number: SAT-STA-20091216-00146  
Callsign:

File # SAT-STA-20091216-00146

Call Sign S2391 Grant Date 02/22/10  
(or other identifier)

Term Dates period of 60 days  
From 02/22/10 To: Approved by OMB 3060-0678

**GRANTED\***  
International Bureau  
\*subject to conditions

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

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:  
Application for Special Temporary Authority to Drift the Intelsat 801 Satellite to 29.5 W.L.

1. Applicant

<b>Name:</b>	Intelsat North America 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-20091216-00146  
Call Sign: S2391

The request of Intelsat North America, LLC (Intelsat) for special temporary authority (STA), File No. SAT-STA-20091216-00146, is granted. Accordingly, Intelsat is authorized, for a period of 60 days commencing on February 22, 2010, to drift the C- and Ku-band Intelsat 801 space station (Call Sign S2391) from the 31.5° W.L. orbital location to the 29.5° W.L. orbital location and to operate temporarily the Fixed-Satellite Service (FSS) communications payloads during the drift and while at the 29.5° W.L. orbital location. Specifically, Intelsat is authorized to use the following telemetry, tracking, and telecommand (TT&C) frequency bands for these operations: 3947.5 MHz (RHCP), 3948.0 MHz (RHCP), 3952.0 (RHCP), and 3952.5 MHz (RHCP) (space-to-Earth); 6173.7 MHz (LHCP) and 6176.3 MHz (RHCP) (Earth-to-space). During the drift, Intelsat is authorized to operate the C-band communications payload on the Intelsat 801 space station in the 3625-4200 MHz (space-to-Earth) and 5850-6425 MHz (Earth-to-space) frequency bands in order to ensure continuity of service to existing customers. After completion of drift, Intelsat is authorized to operate the FSS C- and Ku-band communications payload on the Intelsat 801 space station at the 29.5° W.L. orbital location temporarily in the following frequency bands: 3625-4200 MHz (space-to-Earth), 5850-6425 MHz (Earth-to-space), 10.95-11.2 GHz (space-to-Earth), 11.45-11.95 GHz (space-to-Earth), 12.5-12.75 GHz (space-to-Earth), and 14.0-14.5 GHz (Earth-to-space). This authorization is granted in accordance with the terms, conditions, and technical specifications set forth in Intelsat's application, the Federal Communication Commission's rules, and the conditions of this attachment.

1. All operations 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 radiocommunication system.
2. In the event of any harmful interference as a result of the operations of Intelsat 801 at the 29.5° W.L. orbit location or during drift to the 29.5° W.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 coordinate its operations with existing geostationary satellites to ensure that no unacceptable interference results from its temporary operations at the 29.5° W.L. orbital location or from its TT&C operations during the drift to the 29.5° W.L. orbital location.
4. Intelsat shall operate the Intelsat 801 space station at the 29.5° W.L. orbital location in compliance with all existing or future coordination agreements for that location.
5. Intelsat does not seek – and is not authorized – to operate the Intelsat 801 space station's extended C-band (*i.e.*, 3625-3700 MHz and 5850-5925 MHz) or extended Ku-band (*i.e.*, 10.95-11.2 GHz and 11.45-11.7 GHz) frequencies to, from, or within the United States under this authorization.
6. 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.
7. Grant of this authorization is without prejudice to any determination that the Commission may make regarding Intelsat's pending application for permanent operations of the Intelsat 801 space station at the 29.5° W.L. orbital location (IBFS File No. SAT-MOD-20100208-00024)

Attachment to Grant  
IBFS File No. SAT-STA-20091216-00146  
Call Sign: S2391

8. Any action taken or expense incurred as a result of operations pursuant to this STA is at Intelsat's own risk.
9. 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.
10. 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.



\*subject to conditions

File # SAT-STA-20091216-00146

Call Sign S2391 Grant Date 02/22/10  
(or other identifier)

Term Dates period of  
From 02/22/10 To: 60 days

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

2. Contact			
<b>Name:</b>	Intelsat North America LLC	<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?			
If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R. Section 1.1114).			
<input checked="" type="radio"/> Governmental Entity <input type="radio"/> Noncommercial educational licensee Other (please explain):			
4b. Fee Classification   CRY - Space Station (Geostationary)			
5. Type Request			
Change Station Location		<input type="radio"/> Extend Expiration Date <input type="radio"/> Other	
6. Temporary Orbit Location 29.5 W.L.		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 North America LLC herein requests Special Temporary Authority for 60 days beginning February 15, 2010 to drift Intelsat 801 from 31.5 W.L. to 29.5 W.L. and operate temporarily at the 29.5 W.L. location. Intelsat plans shortly to file an application to modify the license for Intelsat 801 to allow its permanent operation at that location,

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.**

## **8. Description**

Intelsat North America LLC herein requests Special Temporary Authority for 60 days beginning February 15, 2010 to drift Intelsat 801 from 31.5 W.L. to 29.5 W.L. and operate temporarily at the 29.5 W.L. location. Intelsat plans shortly to file an application to modify the license for Intelsat 801 to allow its permanent operation at that location, where it will be co-located with Intelsat 705.

December 16, 2009

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 for Intelsat 801  
Call Sign: S2391

Dear Ms. Dortch:

Intelsat North America LLC ("Intelsat") herein requests Special Temporary Authority ("STA")<sup>1</sup> for 60 days beginning February 15, 2010 to drift Intelsat 801 from 31.5° W.L. to 29.5° W.L. and operate temporarily at the 29.5° W.L. location.<sup>2</sup> Intelsat plans shortly to file an application to modify the license for Intelsat 801 to allow its permanent operation at that location, where it will be co-located with Intelsat 705.<sup>3</sup>

Intelsat expects to have Intelsat 801 at 29.5° W.L. mid - to late March 2010. During the drift, Intelsat will continue operating the satellite's C-band communications frequencies, as well as the satellite's TT&C frequencies. The operation of the satellite's C-band communications frequencies during the drift is being done to ensure continuity of service to C-band customers on the satellite -- including a U.S. Government customer -- that cannot be accommodated on another Intelsat satellite until a later date.<sup>4</sup> Intelsat confirms that there are no satellites between 31.5° W.L. and 29.5° W.L. that operate a C-band communications payload. The specific C-band communications frequencies that will be operating during the drift are as follows:

Uplink:

3625-4200 MHz

<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> Intelsat 801 cannot remain at the nominal 31.5° W.L. location and possibly transfer its traffic to Intelsat 25, which will operate at 31.5° W.L. subject to receipt of FCC approval, because Intelsat 25 is a linearly polarized satellite, while Intelsat 801 is circularly polarized.

<sup>3</sup> Subject to receipt of FCC approval, Intelsat 705 will be relocated from 50.0° W.L. to 29.5° W.L. starting mid-February 2010.

<sup>4</sup> Intelsat 705 will be at full capacity with 2010 World Cup-related transmissions until the sporting event has concluded.



Ms. Marlene H. Dortch  
December 16, 2009  
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Downlink:

5850-6425 MHz

Intelsat will follow industry practices in coordinating the TT&C transmissions that will be used during the drift. The specific TT&C frequencies are as follows:

Uplink:

6173.7 MHz (LHCP) and 6176.3 MHz (RHCP)

Downlink:

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

Once at 29.5° W.L., Intelsat will operate the satellite's Ku-band payload as well. Specifically, those frequencies are as follows:

Uplink:

14.0-14.5 GHz

Downlink:

10.95-11.2 GHz; 11.45-11.95 GHz and 12.5-12.75 GHz.<sup>5</sup>

Grant of this STA request is in the public interest because it will allow Intelsat to ensure continuity of service to C-band customers on Intelsat 801, with no service outage while the satellite drifts. Customers will not experience service degradation because they will be tracking the satellite during the drift.

Grant of this STA request will not result in increased risk of harmful interference. As noted above, there are no satellites in the drift path utilizing C-band communications frequencies and thus, no interference issues are foreseen. In any case, should any interference occur during the drift, Intelsat will take all reasonable steps to eliminate such interference. At the 29.5° W.L.

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<sup>5</sup> The 12.5-12.75 GHz frequencies will be used only in ITU Region 1.

Ms. Marlene H. Dortch  
December 16, 2009  
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location, Intelsat will operate the satellite's C- and Ku-band communications and TT&C frequencies in conformance with its coordination agreements applicable to operation at this location.

Intelsat has assessed and limited the probability of the space station becoming a source of debris as a result of collisions with large debris or other operational space stations. Except for Intelsat 705, Intelsat 801 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>6</sup> Further, except for Intelsat 705, 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 801 at 29.5° W.L. Finally, Intelsat is not aware of any satellite network with an overlapping station-keeping volume with Intelsat 801 that is the subject of an ITU filing and that is either in orbit or progressing towards launch.

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: Bob Nelson  
Karl Kensinger  
Kathyrn Medley  
Stephen Duall

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<sup>6</sup> Intelsat will operate both satellites in the 29.5° +/- 0.05° station-keeping box. Both satellites operate in inclined orbit.



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February 22, 2010

Jennifer D. Hindin  
202.719.4975  
jhindin@wileyrein.com

**VIA IBFS**

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

**Re: Intelsat North America LLC, Request for Special Temporary Authority  
for Intelsat 801, File No. SAT-STA-20091216-00146 (call sign S2391)**

Dear Ms. Dortch:

Intelsat North America LLC (“Intelsat North America”), by counsel, files this letter pursuant to Section 1.65 of the Federal Communications Commission’s (“FCC”) rules<sup>1</sup> to clarify certain frequency information in the above-referenced application for Special Temporary Authority (“STA”) to drift the Intelsat 801 satellite (call sign S2391) from 31.5° W.L. to 29.5° W.L. and to operate temporarily at the 29.5° W.L. location.

First, the pending STA request inadvertently switched the uplink and downlink C-band frequencies that are proposed for use during the drift. The corrected frequencies are as follows:

Uplink: 5850-6425 MHz  
Downlink: 3625-4200 MHz

Second, Intelsat North America clarifies that the pending STA request does not seek authority to operate the Intelsat 801 satellite’s extended C-band (*i.e.*, 3625-3700 MHz and 5850-5925 MHz) or extended Ku-band frequencies (*i.e.*, 10.95-11.2 GHz and 11.45-11.7 GHz) to, from or within the United States. Intelsat 801’s extended C-band frequencies will be used only outside the United States during the proposed drift and temporary operations at 29.5° W.L. Additionally, Intelsat North America clarifies that the geographic footprint for the beams that utilize the extended Ku-band on Intelsat 801 will not include the United States.

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<sup>1</sup> 47 C.F.R. § 1.65.



Ms. Marlene H. Dortch, Secretary  
February 22, 2010  
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Please direct any questions regarding this matter to the undersigned.

Sincerely,

*/s/ Jennifer D. Hindin*

Jennifer Hindin  
*Counsel for Intelsat North America LLC*