

S2704 SAT-STA-20140501-00044 IB2014000870  
Intelsat License LLC



File # SAT-STA-20140501-00044  
Call Sign S2704 Grant Date 05/29/14  
(or other identifier)  
Term Dates Period of 30 days  
From 06/01/14 To:  
Approved: Stephen J. Deall

Approved by OMB  
3060-0678

Date & Time Filed: May 1 2014 4:24:36:763PM  
File Number: SAT-STA-20140501-00044  
Callsign:

\*with conditions

Stephen J. Deall  
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 30-Day Special Temporary Authority to Drift Intelsat 5, Call Sign S2704

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<br>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-20140501-00044**  
**Call Sign S2704**

The application of Intelsat License LLC (Intelsat) for special temporary authority, IBFS File No. SAT-STA-20140501-00044, is GRANTED. Specifically, Intelsat is authorized, for a period of 30 days, commencing June 1, 2014, to conduct Telemetry, Tracking, and Command (TT&C) operations with the Intelsat 5 space station (Call Sign S2704) necessary to drift the space station from the 50.15° E.L. orbital location to the 157.0° E.L. orbital location using the following center frequencies: 14.498 GHz and 13.999 GHz (Earth-to-space); 11.451 GHz, 11.452 GHz, and 11.454 GHz (space-to-Earth). 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 coordinate the operations of Intelsat 5 with existing geostationary space stations to ensure that no unacceptable interference results from its operations during drift to the 157.0° E.L. orbital location.
4. Intelsat must operate only the TT&C frequencies on Intelsat 5 during the space station's drift from the 50.15° E.L. orbital location to the 157.0° E.L. orbital location.
5. Intelsat shall notify the Chief, Satellite Division, in writing, of the date that the Intelsat 5 space station departs the 50.15° E.L. orbital location within three business days of the departure date.
6. Grant of this special temporary authority is without prejudice to any action on IBFS File No. SAT-MOD-20121002-00176.
7. 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.
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.



\*with conditions

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Term Dates period of  
From 06/01/14 To: 30 days  
Approved: Stephen J. Duall

Stephen J. 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, 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 SATMOD2012100200176 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).
- Governmental Entity     Noncommercial educational licensee
- Other (please explain):

4b. Fee Classification    CRY – Space Station (Geostationary)

5. Type Request

- Change Station Location                       Extend Expiration Date                       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 30 days, commencing June 1, 2014, to drift Intelsat 5 (call sign S2704) from 50.15 E.L. to 157.0 E.L. Intelsat is not herein seeking authority to operate at 157.0 E.L. Intelsat also seeks to extend the Intelsat 5 license term for the duration of this STA request.

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  
Assoc. 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).

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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.**



May 1, 2014

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 Intelsat 5  
Call Sign S2704

Dear Ms. Dortch:

Intelsat License LLC ("Intelsat") herein requests Special Temporary Authority ("STA")<sup>1</sup> for 30 days, commencing June 1, 2014, to drift Intelsat 5 (call sign S2704) from 50.15° E.L. to 157.0° E.L. Intelsat is not herein seeking authority to operate at 157.0° E.L.<sup>2</sup> Intelsat also seeks to extend the Intelsat 5 license term for the duration of this STA request.<sup>3</sup> Intelsat expects shortly to file an application for modification of the Intelsat 5 license to allow for its permanent operation at 157.0° E.L.

Intelsat 5 currently is operating at 50.15° E.L. pursuant to Special Temporary Authority.<sup>4</sup> Subject to receipt of FCC approval, Intelsat 5 will be relocated to

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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 will shortly file a 180-day STA request to drift and operate the satellite at 157.0° E.L. in the C- and Ku-bands, where it will replace the Intelsat 706 satellite that currently is scheduled to be de-orbited in November 2014.

<sup>3</sup> Intelsat has a pending application to modify the Intelsat 5 license to extend the license term through December 31, 2020. *See Policy Branch Information; Satellite Space Applications Accepted for Filing*, Report No. SAT-00937, File No. SAT-MOD-20121002-00176 (Mar. 15, 2013) (Public Notice).

<sup>4</sup> *See Policy Branch Information; Actions Taken*, Report No. SAT-00973, File No. SAT-STA-20130808-00105 (Sept. 20, 2013) (Public Notice); *Policy Branch Information; Actions Taken*, Report No. SAT-00972, File No. SAT-STA-20130717-00095 (Sept. 6, 2013) (Public Notice). *Policy Branch Information; Actions Taken*, Report No. Intelsat has a pending request to extend the STA for 120 more days. *See Intelsat License LLC Request for Extension of STA*, File No. SAT-STA-20140226-00028 (filed Feb. 26, 2014).

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157.0° E.L.—with the drift starting June 1, 2014 and the satellite on-station in early October 2014.

During the drift of Intelsat 5 from 50.15° E.L. to 157.0° 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:

14498 MHz (H)  
13999 MHz (RHCP)

Downlink:

11451 MHz (H, V and RHCP)  
11452 MHz (H, V and RHCP)  
11454 MHz (RHCP and LHCP)

Grant of this STA request is in the public interest because it will allow Intelsat to begin drifting Intelsat 5 in order to provide continuity of service to customers at 157.0° E.L. that are currently on Intelsat 706, following the de-orbit of Intelsat 706.

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.

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 briefly for Intelsat 706, Intelsat 5 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>5</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

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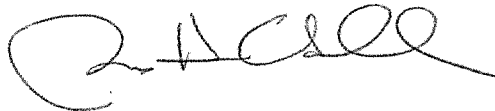
<sup>5</sup> Once traffic has been transferred from Intelsat 706 to Intelsat 5 at 157.0° E.L., Intelsat expects to move Intelsat 706 slightly outside of the nominal 157.0° E.L. location until it is de-orbited. Intelsat expects shortly to file for FCC approval of this temporary redeployment.

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with Intelsat 5 at 157.0° E.L. Finally, Intelsat is not aware of any system with an overlapping station-keeping volume with Intelsat 5 at 157.0° E.L. 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 expeditiously grant this request.

Sincerely,

A handwritten signature in black ink, appearing to read "S. Crandall", written over a horizontal line.

Susan H. Crandall  
Associate General Counsel  
Intelsat Corporation

cc: Stephen Duall  
Jay Whaley  
Cindy Spears