

S2704 **SAT-STA-20120911-00147** **IB2012002089**
Intelsat License LLC
Intelsat 5



File # SAT-STA-20120911-00147

Call Sign S2704 Grant Date 10/25/12
(or other identifier)

Term Dates period of
From 10/25/12 To: 30 days

Approved by OMB
3060-0678

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

Date & Time Filed: Sep 11 2012 5:04:22:326PM
File Number: SAT-STA-20120911-00147
Callsign:

*with conditions

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 Special Temporary Authority to Drift Intelsat 5, Call Sign S2704


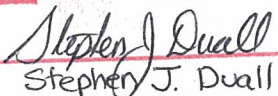
1. Applicant

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		

Intelsat License LLC
IBFS File No. SAT-STA-20120911-00147
Call Sign S2704

The application of Intelsat License LLC (Intelsat) for special temporary authority, IBFS File No. SAT-STA-20120911-00147, IS GRANTED.¹ Specifically, Intelsat is authorized, for a period of 30 days, 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 169.0° E.L. orbital location to the 65.45° 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, 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 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 under this grant of special temporary authority, Intelsat shall cease operations immediately upon notification of such interference and shall immediately inform the Commission, in writing, of such an event.
3. Intelsat shall 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 65.45° E.L. orbital location.
4. Intelsat shall operate only the TT&C frequencies on Intelsat 5 during the space station's drift from the 169.0° E.L. orbital location to the 65.45° E.L. orbital location.
5. Grant of this special temporary authority is without prejudice to any action on IBFS File Nos. SAT-STA-20121017-00182 and SAT-MOD-20121002-00176.
6. 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.
7. Intelsat shall notify the Chief, Satellite Division, in writing, of the date that the Intelsat 5 space station departs the 169.0° E.L. orbital location within three business days of the departure date.
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.

 GRANTED* International Bureau *with conditions	File # SAT-STA-2012 0911-00147
	Call Sign S2704 Grant Date 10/25/12
	(or other identifier) Term Dates period of
	From 10/25/12 To: 30 days
	Approved:  Stephen J. Duall Chief, Satellite Policy Branch

¹ Intelsat also requested to extend the Intelsat 5's license term, which currently expires on October 26, 2012, for the duration of the requested period of special temporary authority. Intelsat subsequently filed an application to modify Intelsat 5's authorization by extending the license term beyond October 26, 2012. See IBFS File No. SAT-MOD-20121002-00176 (filed Oct. 2, 2012). We will address Intelsat's license extension request in its modification application.

2. Contact			
Name:	Susan H. Crandall	Phone Number:	202-944-7848
Company:	Intelsat Corporation	Fax Number:	202-944-7870
Street:	3400 International Drive, N.W.	E-Mail:	susan.crandall@intelsat.com
 City:	Washington	 State:	DC
Country:	USA	Zipcode:	20008 -3006
Attention:	Susan H. Crandall	Relationship:	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 30 days, From October 21, 2012 through November 20, 2012, to drift Intelsat 5 (call sign S2704) from 169.0 E.L. to 65.45 E.L., where it will operate in the C- and Ku-bands under new U.S. ITU filings. Intelsat also seeks to extend the Intelsat 5 license term, which currently expires on

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).

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8. Description

Intelsat License LLC herein requests Special Temporary Authority for 30 days, From October 21, 2012 through November 20, 2012, to drift Intelsat 5 (call sign S2704) from 169.0 E.L. to 65.45 E. L., where it will operate in the C- and Ku-bands under new U.S. ITU filings. Intelsat also seeks to extend the Intelsat 5 license term, which currently expires on October 26, 2012, for the duration of this STA request.

September 11, 2012



Ms. Marlene H. Dortch
Secretary
Federal Communications Commission
445 12th 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")¹ for 30 days—from October 21, 2012 through November 20, 2012—to drift Intelsat 5 (call sign S2704) from 169.0° E.L. to 65.45° E.L., where it will eventually operate in the C- and Ku-bands under new U.S. ITU filings.² Intelsat also seeks to extend the Intelsat 5 license term, which currently expires on October 26, 2012, for the duration of this STA request. Intelsat expects shortly to file an application for modification of the Intelsat 5 license to allow for its permanent operation at 65.45° E.L. That modification application will include a request to extend the Intelsat 5 license for a longer term.

Intelsat 5 currently is operating at 169.0° E.L.³ Subject to receipt of FCC approval, Intelsat 5 will be relocated to 65.45° E.L.—with the drift starting October 21, 2012 and the satellite on-station in late May 2013.

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

² Intelsat is not herein seeking authority to operate the satellite's communications payload. Intelsat expects to begin inclined orbit operations upon commencement of the drift and will thereafter file the notice required by Section 25.280 of the FCC's rules. 47 C.F.R. §25.280.

³ See Policy Branch Information; Actions Taken, Report No. SAT-00561, File No. SAT-MOD-20080725-00150 (Oct. 24, 2008).

During the drift of Intelsat 5 from 169.0° E.L. to 65.45° 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 meet anticipated customer demand at 65.45° E.L. Continued operation of the Intelsat 5 satellite beyond October 26, 2012 also serves the public interest by enabling customers to receive additional services with this in-orbit spacecraft prior to its de-orbit. The FCC has already approved a post-mission disposal plan for the Intelsat 5 satellite that reserves 21.2 kg of fuel for an intended de-orbit of 150 km.⁴

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 65.45° E.L. and subject to FCC approval, Intelsat plans to operate the communications payload in conformance with its coordination agreements related to that location or on a non-interference, non-protected basis.

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 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. Further, Intelsat is not aware of any other FCC licensed system, or any other system applied for and under consideration by the


⁴ See *id.* SIA also has pending a request for blanket waiver of the requirement to vent all fuel, which includes the Intelsat 5 satellite. Satellite Industry Association, Request for Blanket Waiver of Section 25.283(c) of the Commission's Rules (filed 10/1/2010).

Ms. Marlene H. Dortch
September 11, 2012
Page 3

FCC, having an overlapping station-keeping volume with Intelsat 5 at 65.45° E.L. Finally, Intelsat is not aware of any system with an overlapping station-keeping volume with Intelsat 5 at 65.45° 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 'Susan H. Crandall', with a large, stylized initial 'S'.

Susan H. Crandall
Assistant General Counsel
Intelsat Corporation

cc: Stephen Duall
Jay Whaley