

S2704

SAT-STA-20121017-00182

IB2012002429

Intelsat License LLC
INTELSAT 5



File # SAT-STA-20121017-00182

Call Sign S2704 Grant Date 05/30/13
(or other identifier)

Term Dates Period of
From 05/30/13 To: 180 days

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

Approved by OMB
3060-0678

Date & Time Filed: Oct 17 2012 5:38:54:993PM
File Number: SAT-STA-20121017-00182
Callsign:

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 and Operate Intelsat 5, Call Sign S2704

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		

Intelsat License LLC
IBFS File No. SAT–STA–20121017–00182
Call Sign S2704

The application of Intelsat License LLC (Intelsat) for special temporary authority, IBFS File No. SAT–STA–20121017–00182, IS GRANTED. Specifically, Intelsat is authorized, for a period of 180 days, to (1) provide Fixed-Satellite Service (FSS) via Intelsat 5(Call Sign S2704), in inclined orbit, at 65.45° E.L. in the 3700-4200 MHz (space-to-Earth), 5925-6425 MHz (Earth-to-space), 10.7-10.95 GHz (space-to-Earth), 11.2-11.45 GHz (space-to-Earth), 11.45-11.7 GHz (space-to-Earth), 12.75-13.25 GHz (Earth-to-space), and 14.0-14.25 GHz (Earth-to-space) frequency bands; and (2) conduct Telemetry, Tracking, and Command (TT&C) operations necessary to maintain Intelsat 5 at 65.45° E.L. 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).¹ 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. 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.
2. While at the 65.45° E.L. orbital location, Intelsat must maintain the Intelsat 5 space station with an east/west longitudinal station-keeping tolerance of +/- 0.05 degrees.
3. Intelsat must operate Intelsat 5 at the 65.45° E.L. orbital location in accordance with any existing or future coordination agreements for this location.
4. 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.
5. Intelsat’s use of the 10.7-10.95 GHz, 11.2-11.45 GHz, and 12.75-13.25 GHz bands must be in accordance with the provisions of Appendix 30B.
6. Intelsat’s use of the 10.7-10.95 GHz, 11.2-11.45 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.
7. Intelsat’s operation of the Intelsat 5 space station in the 10.7-10.95 GHz, 11.2-11.45 GHz, 11.45-11.7, and 12.75-13.25 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).
8. Operations of Intelsat 5 to or from the United States must comply with the power levels specified in Section 25.212 of the Commission’s rules, 47 C.F.R. § 25.212, unless Intelsat coordinates

¹ Intelsat was previously granted special temporary authority to conduct TT&C operations necessary to drift Intelsat 5 from 169.0° E.L. to 65.45° E.L. See IBFS File Nos. SAT-STA-20120911-00147 (granted Oct. 25, 2012); SAT-STA-20121120-00201 (granted Nov. 28, 2012), SAT-STA-20121218-00218 and SAT-STA-20130116-00008 (granted Jan. 31, 2013); SAT–STA–20130214–00022 (granted Feb. 28, 2013); SAT-STA-20130318-00013 (granted April 4, 2013); and SAT-STA-20130412-00059 (granted April 25, 2012).

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any operations using power levels exceeding the levels in Section 25.212 with all potentially affected adjacent satellites within 6 degrees orbital separation of the 65.45° E.L. orbital location. Intelsat must 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 power density level of Intelsat 5's digital carriers operating in the 5925-6425 MHz band exceed -38.7 dBW/Hz, or in the 14.0-14.25 GHz band exceed -45 dBW/Hz. In no event shall the downlink EIRP density of the Intelsat 5 digital carriers operating in the 3700-4200 MHz band exceed -32 dBW/Hz; or in the 11450-11700 MHz band exceed -20 dBW/Hz.²

9. Grant of this special temporary authority is without prejudice to any action on IBFS File Nos. SAT-MOD-20121002-00176 and SAT-MOD-20121109-00196.

10. Grant of this authorization does not constitute "specific authority" pursuant to 25.161(c) of the Commission's rules.

11. This grant of special temporary authority is without prejudice to any decision with respect to any replacement expectancy at the 169.0° W.L. orbital location in the 10.7-10.95 GHz, 11.2-11.45 GHz, 11.45-11.7 GHz, and 12.75-13.25 GHz frequency bands.³

12. 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.

13. Intelsat is afforded thirty days from the date of release of this grant to decline this authorization as conditioned. Failure to respond within this period will constitute formal acceptance of the authorization as conditioned.

14. 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 thirty days of the date of the public notice indicating that this action was taken.



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Stephen J. Duall
Chief, Satellite Policy Branch

² See SAT-MOD-20121109-00196, Engineering at 7.

³ Intelsat notified the Commission that Intelsat 5 left the 169.0° E.L. station-keeping box on October 31, 2012. See Letter from Susan Crandall, Assistant General Counsel, Intelsat Corp., to Marlene H. Dortch, Secretary, FCC, dated Nov. 5, 2012, available in IBFS File No. SAT-STA-20120911-00147. As a result of this departure, Intelsat is not operating, nor has Intelsat indicated any intent to operate, another space station at 169° E.L. using the 10.7-10.95 GHz, 11.20-11.45 GHz, 11.45-11.7 GHz, and 12.75-13.25 GHz frequency bands that were previously authorized for use by Intelsat 5 at that location. See IBFS File No. SAT-MOD-20080725-00150 (granted Oct. 17, 2008).

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?

- 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 180 days from date of grant to drift Intelsat 5 (call sign S2704) from 169.0 E.L. to 65.45 E.L. and to operate the satellite at 65.45 E.L. in the C- and Ku-bands under new U.S. ITU filings.

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.

October 17, 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 and Operate Intelsat 5
Call Sign S2704

Dear Ms. Dortch:

Intelsat License LLC ("Intelsat") herein requests Special Temporary Authority ("STA")¹ for 180 days from date of grant to drift Intelsat 5 (call sign S2704) from 169.0° E.L. to 65.45° E.L. and to operate the satellite at 65.45° E.L. 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.³ 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.

Intelsat 5 currently is operating at 169.0° E.L.⁴ 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 has a pending 30-day STA request for authority to start drifting Intelsat 5 to 65.45° E.L. *See Intelsat License LLC Request for Special Temporary Authority*, File No. SAT-STA-20120911-00147 (filed Sept. 11, 2012). 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 Intelsat has a pending application to modify the Intelsat 5 license to extend the license term through December 31, 2020. *See Intelsat License LLC Application to Modify License*, File No. SAT-MOD-20121002-00176 (filed Oct. 2, 2012).

⁴ *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)

Once located at 65.45° E.L., Intelsat also will operate the satellite's communications frequencies as set forth below:

Uplink:

5925-6425 MHz
12750-13250 MHz
14000-14250 MHz

Downlink:

3700-4200 MHz
10700-10950 MHz
11200-11450 MHz
11450-11700 MHz

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.⁵

⁵ See *id.* Intelsat notes that the Satellite Industry Association's pending request for blanket waiver of Section 25.283(c) incorrectly included the Intelsat 5 satellite. *Pleading Cycle Established for Comment on Satellite Industry*

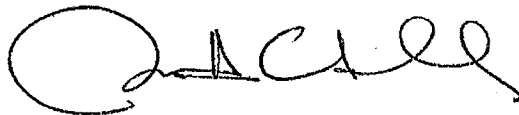
Ms. Marlene H. Dortch
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Grant of this STA request will not result in increased risk of harmful interference. As noted above, Intelsat will operate only the above listed TT&C frequencies during the drift, and will coordinate its TT&C transmissions with 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., Intelsat will 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 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,



Susan H. Crandall
Assistant General Counsel
Intelsat Corporation

cc: Stephen Duall
Jay Whaley
Cindy Spiers

Association's Blanket Waiver Request Concerning Relieving Satellite Pressure Vessels, IB Docket No. 02-54, DA 10-2291 (Dec. 14, 2010) (Public Notice).