

S2704 SAT-STA-20130717-00095 IB2013001566
Intelsat License LLC
Intelsat 5



File # SAT-STA-20130717-00095
Call Sign S2704 Grant Date 09/05/13
(or other identifier)
Term Dates period of
From 09/05/13 To: 180 days
Approved: *Stephen J. Duall*

Approved by OMB
3060-0678

Date & Time Filed: Jul 17 2013 5:38:33:893PM
File Number: SAT-STA-20130717-00095
Callsign:

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:
Request for 180-Day Special Temporary Authority to Operate 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-20130717-00095
Call Sign: S2704

The application of Intelsat License LLC (Intelsat) for special temporary authority, IBFS File No. SAT-STA-20130717-00095, is GRANTED. Intelsat is authorized, for a period of 180 days, commencing on September 5, 2013, to provide Fixed-Satellite Service (FSS) via the Intelsat 5 space station, in inclined orbit, at the 50.15° E.L. orbital location 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 and 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. Intelsat is also authorized, on a temporary basis, to conduct telemetry, tracking, and command operations necessary to maintain Intelsat 5 at the 50.15° E.L. orbital location using the following center frequencies: 11.451 GHz, 11.452 GHz, and 11.454 GHz (space-to-Earth); and 13.999 GHz and 14.498 GHz (Earth-to-space). 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 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. Intelsat must maintain full operational control of the Intelsat 5 space station at all times.
3. While at the 50.1 5° E.L. orbital location, Intelsat must maintain the Intelsat 5 space station with an east/west longitudinal station-keeping tolerance of +/- 0.05 degrees.
4. Intelsat must operate Intelsat 5 at the 50.1 5° E.L. orbital location in accordance with any existing or future 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. This authorization is issued with the understanding that, to the extent Intelsat and its affiliated companies, pursuant to any arrangement with the Administration of Turkey, conforms its operations to any parameters agreed to in coordination agreements between the Administration of Turkey and other Administrations, responsibility for both compliance with, and enforcing compliance with, those arrangements and agreements is a matter that would arise under private law.
7. This authorization is issued with the understanding that this grant is not an approval of any specific arrangement entered into by Intelsat, its subsidiaries and affiliates, nor of any specific provision of any such arrangement concerning operation of the Intelsat-5 space station, nor is this grant an approval of an arrangement/agreement concerning any related matter, nor of any specific provision of any such arrangement/agreement concerning any related matter.
8. The United States remains the licensing Administration of the Intelsat 5 space station and its communications payloads for purposes of International Telecommunication Union

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(ITU) Radio Regulation 18.1 and is the Administration responsible for the operations of Intelsat 5. Any operations of Intelsat-5 at the 50.15° E.L. orbital location are pursuant to ITU Radio Regulation 4.4. The U.S. Administration will not object to use of the Intelsat 5 satellite by the Administration of Turkey for claiming bringing into use or continuing the use of orbital assignments at 50.15° E.L. This grant does not in any way express a view concerning, or agreement as to, the validity or lack of validity of any ITU filing at or within the vicinity of the 50.15° E.L. orbital location.

9. This authorization is issued with the understanding that, with respect to its filings with the ITU for the 50.15° E.L. orbital location, the Administration of Turkey is not acting pursuant to Article 9 of the Radio Regulations on behalf of the United States Administration.

10. Intelsat's use of the 10.7-10.95 GHz, 11.2-11.45 GHz, and 12.75-13.25 GHz frequency bands is subject to footnote 5.441 to the United States Table of Frequency Allocations, 47 C.F.R. § 2.106, 5.441, which states that operations in these bands shall be in accordance with the provisions of Appendix 30B.


11. 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.

12. Intelsat's operation of the Intelsat 5 space station in the 10.7-10.95 GHz, 11.45-11.7 GHz, and 12.75-13.25 GHz bands is limited to international operations in accordance with footnote NG 52 to the United States Table of Frequency Allocations, 47 C.F.R. § 2.106, NG 52.

13. 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.

14. Intelsat has 30 days from the date of this grant to decline this authorization as conditioned. Failure to respond within that period will constitute formal acceptance of the authorization as conditioned.

15. 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.

 GRANTED* International Bureau *with conditions	File # <u>SAT-STA-20130717-00095</u>
	Call Sign <u>S2704</u> Grant Date <u>09/05/13</u>
	(or other identifier)
	Term Dates period of <u>180 days</u>
	From <u>09/05/13</u> To: _____
Approved: <u>Stephen J. Duall</u> Stephen J. Duall Chief, Satellite Policy Branch	

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 SATMOD2012100200176 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 50.15 E.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 License LLC herein requests Special Temporary Authority for 180 days commencing August 27, 2013 to operate Intelsat 5 (call sign S2704) temporarily at 50.15 E.L. in inclined orbit in the C- and Ku-bands in accordance with the ITU filings of Turkey.

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.

July 17, 2013

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



Re: Request for Special Temporary Authority to Operate Intelsat 5
Call Sign S2704

Dear Ms. Dortch:

Intelsat License LLC ("Intelsat") herein requests Special Temporary Authority ("STA")¹ for 180 days commencing August 27, 2013 to operate Intelsat 5 (call sign S2704) temporarily at 50.15° E.L. in inclined orbit in the C- and Ku-bands in accordance with the ITU filings of Turkey.² Intelsat has a pending application to modify the Intelsat 5 license to extend the satellite's license term and understands that grant of this STA request would be without prejudice to any action on that application.³

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 50.15° E.L. See *Intelsat License LLC Request for Special Temporary Authority*, File No. SAT-STA-20130715-00092 (filed July 15, 2013). Intelsat incorporates herein by reference the letter attached as Exhibit A to that STA request from Türksat Satellite Communication, Cable TV and Operation A.S. ("Türksat") dated July 12, 2013 confirming that Türksat has informed the Government of Turkey that Intelsat 5 will operate at the nominal 50.0° E.L. under United States licensing authority. Intelsat has been operating Intelsat 5 at 65.45° E.L. under STA. See *Policy Branch Information; Satellite Space Applications Accepted for Filing*, Report No. SAT-00937, File No. SAT-STA-20121017-00182 (May 31, 2013) (Public Notice) ("65.45° E.L. STA").

³ Intelsat is seeking permanently to extend the Intelsat 5 license 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).

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As noted above, Intelsat 5 currently is operating at 65.45° E.L.⁴ Subject to receipt of FCC approval,⁵ Intelsat 5 will be relocated to 50.15° E.L. -- with the drift starting July 30, 2013 and the satellite on-station in late August 2013. Intelsat expects Intelsat 5 to operate at 50.15° E.L. through the first or second quarter of 2014, when Turksat-4B is expected to be launched to the nominal location.

At the 50.15° E.L. location, Intelsat will utilize the following TT&C frequencies on Intelsat 5:

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)

At the 50.15° E.L. location, Intelsat also will operate the following communications frequencies on Intelsat 5:

Uplink:

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

⁴ See 65.45° E.L. STA. Intelsat has a pending application for permanent authority to operate at 65.45° E.L. See *Policy Branch Information; Satellite Space Applications Accepted for Filing*, Report No. SAT-00937, File No. SAT-MOD-20121109-00196 (Mar. 15, 2013) (Public Notice). Intelsat expects shortly to amend that application to seek authority to operate the satellite at a different location on a permanent basis.

⁵ See *supra* n.2.

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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 customer demand for temporary service at 50.15° E.L. It 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.⁶

Grant of this STA request will not result in increased risk of harmful interference. At 50.15° E.L., Intelsat will operate the above listed frequencies in accordance with Turkey's 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 50.15° E.L. Finally, Intelsat is not aware of any system with an overlapping station-keeping volume with Intelsat 5 at 50.15° E.L. that is the subject of an ITU filing and that is either in orbit or progressing towards launch.

⁶ See *Policy Branch Information; Actions Taken*, Report No. SAT-00561, File No. SAT-MOD-20080725-00150 (Oct. 24, 2008) (Public Notice). 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 Association's Blanket Waiver Request Concerning Relieving Satellite Pressure Vessels*, IB Docket No. 02-54, DA 10-2291 (Dec. 14, 2010) (Public Notice).

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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.H. Crandall", written in a cursive style.

Susan H. Crandall
Assistant General Counsel
Intelsat Corporation

cc: Stephen Duall
Jay Whaley
Cindy Spiers