

S2401

SAT-STA-20130206-00017

IB2013000347

Intelsat License LLC
Intelsat 706



*with conditions

File # SAT-STA-20130206-00017

Call Sign S2401 Grant Date 02/14/13
(or other identifier)

Term Dates period of
From 02/14/13 To: 60 days

Approved: *Stephen J. Duall*

Stephen J. Duall
Chief, Satellite Policy Branch

Approved by OMB
3060-0678

Date & Time Filed: Feb 6 2013 6:38:16:526PM
File Number: SAT-STA-20130206-00017
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 Further Extension of Special Temporary Authority to Drift Intelsat 706, Call Sign S2401

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–20130206–00017
Call Sign S2401

The application of Intelsat License LLC (Intelsat) for special temporary authority, IBFS File No. SAT–STA–20130206–00017 is GRANTED.¹ Specifically, Intelsat is authorized, for a period of 60 days, commencing on February 14, 2013, to operate Intelsat 706 in inclined orbit mode at the 157.0° E.L. orbital location, instead of its currently authorized orbital position of 72.0° E.L., to provide Fixed-Satellite Service (FSS) in the 3700–4200 MHz (space-to-Earth), 5925–6425 MHz (Earth-to-space), 10.95–11.2 GHz, 11.45–11.7 GHz, and 12.5–12.75 GHz (space-to-Earth), and 14.0–14.5 GHz (Earth-to-space) frequency bands. Intelsat is also authorized to perform telemetry, tracking, and command operations necessary to maintain Intelsat 706 at the 157.0° E.L. orbital location using the following frequencies: 6173.7 MHz and 6176.3 MHz (Earth-to-space); 3947.5 MHz, 3948.0 MHz, 3952.5 MHz, and 3952.0 MHz (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. 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.
4. Intelsat must operate Intelsat 706 at the 157.0° E.L. orbital location in compliance with all existing or future coordination agreements for this location.
5. While at the 157.0° E.L. orbital location, Intelsat must maintain the Intelsat 706 space station with an east/west longitudinal station-keeping tolerance of +/- 0.05 degrees.
6. Intelsat’s use of the 10.95-11.2 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 706 space station in the 10.95-11.2 GHz and 11.45-11.7 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. Use of the 12.50-12.70 GHz frequency band is not authorized in International Telecommunication Union (ITU) Region 2.
9. Use of the 12.70-12.75 GHz frequency band is not authorized for FSS in the space-to-

¹ We also grant Intelsat’s request that the Part 25 technical waivers granted to the Intelsat 706 space station in its original license, Sections 25.202(g), 25.210(a)(1), 25.210(a)(3), 25.210(i) and 25.211(a) of the Commission’s rules, 47 C.F.R. §§ 25.202(g), 25.210(a)(1), 25.210(a)(3), 25.210(i) and 25.211(a), continue to apply to the Intelsat 706 space station at the 157.0° E.L. orbital location. *See Applications of Intelsat LLC For Authority to Operate, and to Further Construct, Launch and Operate C-Band and Ku-Band Global Satellites That Form a Global Communications System in Geostationary Orbit*, 15 FCC Rcd 15460, Appendix C (2000) (*Memorandum Opinion and Order and Authorization*), *recon. denied*, 15 FCC Rcd 24234 (*Order on Reconsideration*).

Intelsat License LLC
IBFS File No. SAT-STA-20130206-00017
Call Sign S2401

Earth direction in ITU Region 2.

10. Operations of Intelsat 706 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 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 157.0° 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 may the uplink power density level of Intelsat 706's digital carriers operating in the 5925-6425 MHz and 14.0-14.5 GHz bands exceed -38.7 dBW/Hz and -45 dBW/Hz, respectively; and within the 3700-4200 MHz band the downlink EIRP density of the Intelsat 706 digital carriers will not exceed -32 dBW/Hz; and within the 10.95-11.2 GHz, 11.45-11.7 GHz, and 12.5-12.75 GHz bands the downlink EIRP density of the Intelsat 706 digital carriers will not exceed -20 dBW/Hz.

11. Intelsat's operation of Intelsat 706 at the 157.0° E.L. orbital location in the C-band frequencies of 3700-4200 MHz (space-to-Earth), and 5925-6425 MHz (Earth-to-space); and the Ku- and extended Ku-band frequencies of 10.95-11.2 GHz (space-to-Earth), 11.45-11.70 GHz (space-to-Earth), 12.5-12.75 GHz (space-to-Earth) and 14.0-14.5 GHz (Earth-to-space); is subject to the following conditions:


(a) Intelsat shall remain a signatory to the Public Services Agreement between Intelsat and the International Telecommunications Satellite Organization (ITSO) that was approved by the ITSO Twenty-fifth Assembly of Parties, as amended.

(b) No entity shall be considered a successor-in-interest to Intelsat under the ITSO Agreement for licensing purposes unless it has undertaken to perform the obligations of the Public Services Agreement approved by the Twenty-fifth Assembly of Parties, as amended.

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. Grant of this authorization is without prejudice to any determination that the Commission may make regarding Intelsat's pending application for authority to operate Intelsat 706 at the 157.0° E.L. orbital location (IBFS File No. SAT-MOD-20121026-00188).

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.

 GRANTED* International Bureau *with conditions	File # <u>SAT-STA-20130206-00017</u>
	Call Sign <u>S2401</u> Grant Date <u>02/14/13</u> (or other identifier)
	From <u>02/14/13</u> Term Dates <u>period of 60 days</u> To: <u>60 days</u>
	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 SATMOD2012102600188 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
2013-03-12 00:00:00.0

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 an additional 30 days, through March 12, 2013, of the Special Temporary Authority originally granted Intelsat to drift Intelsat 706 (call sign S2401) from 72.0 E.L. to 157.0 E.L. In addition, Intelsat seeks temporary authority to begin operating Intelsat 706 at 157.0 E.L. in the C- and Ku-bands in inclined orbit.

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.

February 6, 2013

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



Re: Request for Further Extension of Special Temporary Authority
to Drift Intelsat 706 and Request to Begin Operations
Call Sign S2401

Dear Ms. Dortch:

Intelsat License LLC ("Intelsat") herein requests an additional 30 days—through March 12, 2013—of the Special Temporary Authority ("STA")¹ originally granted Intelsat to drift Intelsat 706 (call sign S2401) from 72.0° E.L. to 157.0° E.L.² In addition, Intelsat seeks temporary authority to begin operating Intelsat 706 at 157.0° E.L. in the C- and Ku-bands in inclined orbit.³ Intelsat has a pending application for permanent authority to operate Intelsat 706 at 157.0° E.L.⁴

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 See *Policy Branch Information; Actions Taken*, Report No. SAT-00928, File No. SAT-STA-20130107-00004 (Feb. 1, 2013); *Policy Branch Information; Actions Taken*, Report No. SAT-00921, File No. SAT-STA-20121210-00214 (Dec. 21, 2012) (Public Notice); *Actions Taken*, Report No. SAT-00914, File No. SAT-STA-20121107-00193 (Nov. 30, 2012) (Public Notice); *Policy Branch Information; Actions Taken*, Report No. SAT-00909, File No. SAT-STA-20121008-00179 (Nov. 2, 2012) (Public Notice); *Policy Branch Information; Actions Taken*, Report No. SAT-00902, File No. SAT-STA-20120910-00146 (Public Notice) (Sep. 28, 2012); *Policy Branch Information; Actions Taken*, Report No. SAT-00890, File No. SAT-STA-20120809-00126 (Public Notice) (Aug. 17, 2012) (Public Notice); See *Policy Branch Information; Actions Taken*, Report No. SAT-00890, File No. SAT-STA-20120809-00126 (Aug. 17, 2012) (Public Notice).

³ Intelsat 706 began operating in inclined orbit mode in 2011. See Letter from Susan H. Crandall, Intelsat, to Marlene H. Dortch, FCC, Call Sign S2401 (filed July 20, 2011).

⁴ See *Policy Branch Information; Satellite Space Applications Accepted for Filing*, Report No. SAT-00915, File No. SAT-MOD-20121026-00188 (Nov. 30, 2012) (Public Notice).

Ms. Marlene H. Dortch
February 6, 2013
Page 2

As explained below and in the original STA request, Intelsat 706 is being redeployed to 157.0° E.L. on an emergency basis, in order to free up Intelsat 701 to move to 330.5° E.L. to ensure traffic continuity at 330.5° E.L. in light of the delayed launch of Intelsat 23. Intelsat currently expects to operate Intelsat 706 at 157.0° E.L. until the satellite is de-orbited in the second half of 2014.

Intelsat 706 currently is on-station at 157.0° E.L., operating only TT&C frequencies. Traffic transfer from Intelsat 701 to Intelsat 706 is scheduled to begin on February 14, 2013.

The specific TT&C frequencies are as follows:

Uplink:

6173.7 (LHCP)
6176.3 (LHCP)

Downlink:

3947.5 (RHCP)
3948.0 (RHCP)
3952.5 (RHCP)
3952.0 (RHCP)

At 157.0° E.L. Intelsat will operate Intelsat 706 in the following communications frequencies:

3700 – 4200 MHz (space-to-Earth)
5925 – 6425 MHz (Earth-to-space)
10950 – 11200 MHz (space-to-Earth)
11450 – 11700 MHz (space-to-Earth)
12500 – 12750 MHz (space-to-Earth)
14000 – 14500 MHz (Earth-to-space)

Grant of this STA further extension request is in the public interest because it will allow Intelsat to continue the redeployment process necessary to ensure continuity of service at 330.5° E.L., where Intelsat 801 (call sign S2391) currently operates. Given the failure of the

Proton rocket in August 2012, the launch of Intelsat 23 (call sign S2831), which replaced Intelsat 707 (call sign S2398) at 307.0° E.L., was delayed. As a result, Intelsat 707 did not have sufficient fuel to be redeployed to 330.5° E.L. as planned. Accordingly, Intelsat decided to redeploy Intelsat 701, which currently operates at 157.0° E.L., to 330.5° E.L. in order to ensure service continuity at the latter location. Intelsat 706 is being redeployed in order to free up Intelsat 701 to move to 330.5° E.L.

Grant of this STA further extension request will not result in increased risk of harmful interference. Intelsat will operate at 157.0° E.L. in conformance with its coordination agreements for the location.

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 while collocated with Intelsat 701, Intelsat 706 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 706 at 157.0° E.L. Finally, Intelsat is not aware of any system with an overlapping station-keeping volume with Intelsat 706 at 157.0° E.L. that is the subject of an ITU filing and that is either in orbit or progressing towards launch.

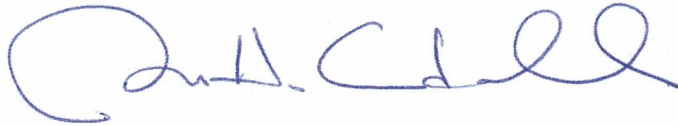
Intelsat requests that the Part 25 waivers originally granted to the Intelsat 706 spacecraft continue to apply at the 157.0° E.L. location, namely, the waivers of Sections 25.202(g), 25.210(a)(1), 25.210(a)(3), 25.210(i) and 25.211(a) of the Commission's rules.⁵

⁵ See *Applications of Intelsat LLC for Authority to Operate and Further Construct, Launch, and Operate C-Band and Ku-Band Satellites that Form a Global Communications System in Geostationary Orbit*, 15 FCC Rcd 15460, 15529 (Appendix C) (2000) (Memorandum Opinion and Order and Authorization), *recon. denied*, 15 FCC Rcd 25234 (2000) (Order on Reconsideration).

Ms. Marlene H. Dortch
February 6, 2013
Page 4

For the reasons set forth herein, Intelsat respectfully requests that the Commission grant this request.

Sincerely,

A handwritten signature in blue ink, appearing to read "Susan H. Crandall". The signature is fluid and cursive, with a large initial "S" and "C".

Susan H. Crandall
Assistant General Counsel
Intelsat Corporation

cc: Robert Nelson
Stephen Duall
Jay Whaley
Cindy Spiers

February 7, 2013

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



Re: *Application of Intelsat License LLC to Modify Authorization for Intelsat 706* (call sign S2401), File No. SAT-MOD-20121026-00188

Request for Further Extension of Special Temporary Authority to Drift Intelsat 706 and Request to Begin Operations (call sign S2401), File No. SAT-STA-20130206-00017

Dear Ms. Dortch:

Intelsat License LLC (“Intelsat”) herein supplements the above-referenced pending applications seeking permanent and temporary authority to operate Intelsat 706 at 157.0° E.L.

First, the modification application stated that the Intelsat 706 satellite’s authority to operate in the 12.5-12.75 GHz band would not be conditioned on Intelsat remaining a signatory to the Public Services Agreement between Intelsat and the International Telecommunications Satellite Organization (“ITSO”).¹ Intelsat now confirms that the Intelsat 706 satellite’s authority to operate in the 12.5-12.75 GHz band is conditioned on Intelsat remaining a signatory to the ITSO Public Service Agreement.

Second, Intelsat clarifies that although Intelsat 706 has the capability to transmit in the 11700-11950 MHz band, Intelsat does not seek authority to use these frequencies on the Intelsat 706 satellite at the 157.0° orbital location.

¹ See *Application of Intelsat License LLC to Modify Authorization for Intelsat 706*, File No. SAT-MOD-20121026-00188, p. 5 (filed Oct. 26, 2012).

Ms. Marlene H. Dortch
February 7, 2013
Page 2

Please contact the undersigned with any questions.

Sincerely,



Susan H. Crandall
Assistant General Counsel
Intelsat Corporation

cc: Robert Nelson
Stephen Duall
Jay Whaley
Cindy Spiers