

S2388 SAT-STA-20121001-00164 IB2012002302
Intelsat License LLC
Intelsat 702



File # SAT-STA-2012 1001-00164

Call Sign S2388 Grant Date 10/18/12

(or other identifier)

Term Dates period of
From 10/20/12 To: 60 days

Approved by OMB
3060-0678

Approved: *Stephen J. Duall*

Stephen J. Duall
Chief, Satellite Policy Branch

Date & Time Filed: Oct 1 2012 6:16:48:813PM
File Number: SAT-STA-20121001-00164
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 for Intelsat 702 (S2388)

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-20121001-00164
Call Sign: S2388

The application of Intelsat License LLC (Intelsat) for special temporary authority, IBFS File No. SAT-STA-20121001-00164, IS GRANTED. Specifically, Intelsat is authorized, for a period of 60 days, commencing on October 20, 2012, to conduct telemetry, tracking, and command operations necessary to drift the Intelsat 702 space station (Call Sign S2388) from the 47.5° E.L. orbital location to the 33.0° E.L. orbital location, using the 3947.5 MHz, 3948.0 MHz, 3952.5 MHz and 3952.0 MHz (space-to-Earth), and 6173.7 MHz and 6176.3 MHz (Earth-to-space) frequencies. Intelsat is also authorized, on a temporary basis, to provide Fixed-Satellite Service (FSS) via Intelsat 702 in inclined orbit mode at the 33.0° E.L. orbital location in the 3700-4200 MHz (space-to-Earth), 5925-6425 MHz (Earth-to-space), 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) frequency bands.¹ 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 shall maintain full operational control of the Intelsat 702 space station at all times.
3. During the drift to the 33.0° E.L. orbital location, Intelsat may not operate the communications payload on the Intelsat 702 space station.
4. While at the 33.0° E.L. orbital location, Intelsat must maintain the Intelsat 702 space station with an east/west longitudinal station-keeping tolerance of +/- 0.05 degrees.
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. Intelsat must coordinate the operations of Intelsat 702 with existing geostationary space stations to ensure that no unacceptable interference results from its operations at the 33.0° E.L. orbital location.
7. Intelsat must operate Intelsat 702 at the 33.0° E.L. orbital location in accordance with any existing coordination agreements for this location.
8. 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.

¹ Intelsat indicates that although Intelsat 702 is also capable of operating in the 11.7-11.95 GHz band, Intelsat does not plan to operate Intelsat 702 in this band at the 33.0° E.L. orbital location.

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9. Intelsat's operation of the Intelsat 702 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).


10. Use of the 12.50-12.70 GHz frequency band is not authorized in International Telecommunication Union (ITU) Region 2.

11. Use of the 12.70-12.75 GHz frequency band is not authorized for FSS in the space-to-Earth direction in ITU Region 2.

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 to operate Intelsat 702 at the 33.0° E.L. orbital location (IBFS File No. SAT-MOD-20121001-00163).

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-20121001-00164</u>
	Call Sign <u>S2388</u> Grant Date <u>10/18/12</u> (or other identifier)
	Term Dates period of From <u>10/20/12</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 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 60 days, from October 20, 2012 through December 18, 2012, to drift Intelsat 702 (call sign S2388) from 47.5 E.L. to 33.0 E.L. and to operate it at that location in inclined orbit in the C- and Ku-bands. Intelsat concurrently is filing an application for modification of the Intelsat 702

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.

8. Description

Intelsat License LLC herein requests Special Temporary Authority for 60 days, from October 20, 2012 through December 18, 2012, to drift Intelsat 702 (call sign S2388) from 47.5 E.L. to 33.0 E.L. and to operate it at that location in inclined orbit in the C- and Ku-bands. Intelsat concurrently is filing an application for modification of the Intelsat 702 license to allow for the permanent operation of the satellite at 33.0 E.L.

October 1, 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 702
Call Sign S2388

Dear Ms. Dortch:

Intelsat License LLC ("Intelsat") herein requests Special Temporary Authority ("STA")¹ for 60 days -- from October 20, 2012 through December 18, 2012 -- to drift Intelsat 702 (call sign S2388) from 47.5° E.L. to 33.0° E.L. and to operate it at that location in inclined orbit in the C- and Ku-bands. Intelsat concurrently is filing an application for modification of the Intelsat 702 license to allow for the satellite's permanent operation at 33.0° E.L.

Intelsat 702 currently is operating at 47.5° E.L.² Intelsat 709 is expected to arrive at 47.5° E.L. in mid-October and replace Intelsat 702.³ Subject to receipt of FCC approval, Intelsat 702 will be relocated to 33.0° E.L. -- with the drift starting October 20, 2012 and the satellite on-station in mid-December 2012. At 33.0° E.L., Intelsat 702 will be collocated with Intelsat New Dawn (call sign S2751), which currently operates at 32.8° E.L.⁴

During the drift of Intelsat 702 from 47.5° E.L. to 33.0° E.L., Intelsat will utilize only the satellite's TT&C frequencies and will follow

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-00866, File Nos. SAT-STA-20120329-00063 and SAT-STA-20120416-00068 (May 11, 2012) (Public Notice).

³ Intelsat 709 currently is drifting to 47.5° E.L. pursuant to STA. See *Policy Branch Information; Actions Taken*, Report No. SAT-00875, File No. SAT-STA-20120426-00076 (June 15, 2012) (Public Notice); *Policy Branch Information; Actions Taken*, Report No. SAT-00869, File No. SAT-STA-20120409-00066 (May 18, 2012) (Public Notice).

⁴ See *Policy Branch Information; Actions Taken*, Report No. SAT-00769, File No. SAT-MOD-20101029-00228 (Apr. 1, 2011) (Public Notice).

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industry practices for coordinating TT&C transmissions during the relocation process. The specific TT&C frequencies are as follows:

Uplink:

6173.7 MHz and 6176.3 (LHCP)

Downlink:

3947.5 MHz and 3948.0 MHz (RHCP)
3952.5 MHz and 3952.0 MHz (RHCP)

Once on-station at 33.0° E.L., Intelsat also will operate the following Intelsat 702 communications frequencies:

Uplink:

5925-6425 MHz
14000-14500 MHz

Downlink:

3700-4200 MHz
10950-11200 MHz
11450-11700 MHz
12500-12750 MHz⁵

Grant of this STA request is in the public interest because it will allow Intelsat to maximize the efficient use of its satellite fleet while bringing additional capacity to Europe, Africa and Asia.

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 33.0° E.L., Intelsat will operate the communications payload in

⁵ Although Intelsat 702 also has the capability to transmit in the frequency band 11.7-11.95 GHz, Intelsat does not intend to utilize this frequency band from the 33.0° E.L. orbital location.

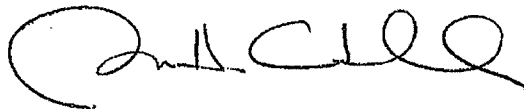
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conformance with Intelsat's coordination agreements related to that location and the FCC's rules governing operations at the location vis-à-vis adjacent locations.

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 702 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 702 at 33.0° E.L. Finally, Intelsat is not aware of any system with an overlapping station-keeping volume with Intelsat 702 at 33.0° 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', with a large, stylized initial 'S' on the left.

Susan H. Crandall
Assistant General Counsel
Intelsat Corporation

cc: Stephen Duall
Jay Whaley