

S2382 SAT-STA-20121022-00186 IB2012002473
Intelsat License LLC
Intelsat 10



File # SAT-STA-20121022-00186
Call Sign S2382 Grant Date 12/07/12
(or other identifier)
Term Dates period of
From 12/22/12 To: 180 days
Approved: *Stephen J. Duall*
Stephen J. Duall
Chief, Satellite Policy Branch

Approved by OMB
3060-0678

Date & Time Filed: Oct 22 2012 5:03:09:433PM
File Number: SAT-STA-20121022-00186
Callsign:

*with conditions

FEDERAL COMMUNICATIONS COMMISSION
APPLICATION FOR SPACE STATION SPECIAL TEMPORARY AUTHORITY
FOR OFFICIAL USE ONLY

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 10, Call Sign S2382

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-20121022-00186
Call Sign: S2382

The application of Intelsat License LLC (Intelsat) for special temporary authority, IBFS File No. SAT-STA-20121022-00186, IS GRANTED. Specifically, Intelsat is authorized, for a period of 180 days, commencing on December 22, 2012, to continue to conduct telemetry, tracking, and command operations necessary to drift the Intelsat 10 space station (Call Sign S2382) from the 68.5°E.L. orbital location to the 47.5° E.L. orbital location, using the 12.7475 GHz and 12.7485 GHz (space-to-Earth) and 14.0005 GHz and 14.4995 GHz (Earth-to-space) frequencies. Intelsat is also authorized, on a temporary basis, to provide Fixed-Satellite Service (FSS) via Intelsat 10 at the 47.5° E.L. orbital location in the 3700-4200 MHz (space-to-Earth), 5925-6425 MHz (Earth-to-space), 11.45-11.70 GHz (space-to-Earth), 12.25-12.75 GHz (space-to-Earth), and 14.0-14.5 GHz (Earth-to-space) frequency bands. 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 10 space station at all times.
3. During the drift to the 47.5° E.L. orbital location, Intelsat may not operate the communications payload on the Intelsat 10 space station.
4. While at the 47.5° E.L. orbital location, Intelsat must maintain the Intelsat 10 space station with an east/west longitudinal station-keeping tolerance of +/- 0.05 degrees.
5. This authorization is issued with the understanding that, to the extent Intelsat and its affiliated companies, pursuant to any arrangement with the German Administration, conforms its operations to any parameters agreed to in coordination agreements between the German Administration 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.
6. The United States remains the licensing administration of the Intelsat 10 space station and its communications payloads for purposes of International Telecommunication Union (ITU) Radio Regulation 18.1 and is the administration responsible for the operations of Intelsat 10. The U.S. Administration will not object to use of the Intelsat 10 satellite by the German Administration for claiming bringing into use or continuing the use of orbital assignments at 47.5° 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 47.5° E.L. orbital location.
7. 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

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country.

8. Intelsat's use of the 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.

9. Intelsat's operation of the Intelsat 10 space station in the 11.45-11.7 GHz band 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 12.25-12.70 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. Grant of this authorization is without prejudice to any decision regarding Intelsat's ability to file an application for authorization to operate a replacement space station in the 12.25-12.50 GHz frequency band at the 68.5° E.L. orbital location.¹ Grant of this authorization does not constitute an announcement that this frequency is available for reassignment.

13. Grant of this authorization does not constitute a finding pursuant to Section 25.161(c) of the Commission's rules.

14. 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.

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.

 GRANTED* International Bureau *with conditions	File # <u>SAT-STA-20121022-00186</u>
	Call Sign <u>S2382</u> Grant Date <u>12/07/12</u> (or other identifier)
	Term Dates period of From <u>12/22/12</u> To: <u>180 days</u>
	Approved: <u>Stephen J. Duall</u> Stephen J. Duall Chief, Satellite Policy Branch

¹ Intelsat is also authorized to operate the Intelsat 20 space station (Call Sign S2847) at the 68.5° E.L. orbital location, which will operate on many of the same frequencies currently used by Intelsat 10. See IBFS File No. SAT-LOA-20111024-00208, granted July 26, 2012. Intelsat 20, however, will not use the 12.25-12.50 GHz frequency band that is currently authorized for use by Intelsat 10. *Id.*

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 SATSTA2012092500155 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 10 (call sign S2382) from 68.5 E.L. to 47.5 E.L., and to operate it at that location in the C- and Ku-bands pursuant to the ITU filings of the German Administration.

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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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 22, 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 10
Call Sign S2382

Dear Ms. Dortch:

Intelsat License LLC ("Intelsat") herein requests Special Temporary Authority ("STA")¹ for 180 days from date of grant to drift Intelsat 10 (call sign S2382) from 68.5° E.L. to 47.5° E.L., and to operate it at that location in the C- and Ku-bands pursuant to the ITU filings of the German Administration.² Intelsat has a pending 30-day STA request to begin drifting the satellite³ and expects shortly to file an application for modification of the Intelsat 10 license to allow for its permanent operation at 47.5° E.L.

Intelsat 10 currently is operating at 68.5° E.L.⁴ Intelsat 20 recently commenced operations at 68.5° E.L.⁵ Subject to receipt of FCC

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 incorporates herein by reference the description of Europe*Star Gesellschaft Fur Satellitenkommunikation mbH ("Europe*Star"), the entity that holds the authorization to operate at 47.5° E.L., set forth on page 2 of its STA request, File No. SAT-STA-20110715-00129. Intelsat further incorporates by reference the New Slot Usage Agreement between Europe*Star and PanAmSat Europe, as well as Europe*Star's authorization from the German Administration to operate at the 47.5° E.L. orbital location, that previously were filed with the FCC. *See Policy Branch Information; Actions Taken*, Report No. SAT-00476, File No. SAT-STA-20061102-00128 (Oct. 12, 2007) (Public Notice) (granting STA request to drift Intelsat 601 from 63.65° E.L. to 47.5° E.L.).

³ *See Intelsat License LLC*, Request for Special Temporary Authority for Intelsat 10, Call Sign S2382, File No. SAT-STA-20120925-00155 (filed Sept. 25, 2012).

⁴ *See PanAmSat Licensee Corp. Application for Authority to Launch and Operate a Replacement Hybrid Fixed-Satellite Service Space Station at 68.5 E.L. Known as PAS-24*, 16 FCC Rcd 13145, File Nos.

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approval, Intelsat 10 will be relocated to 47.5° E.L. – with the drift starting October 23, 2012 and the satellite on-station in late December 2012. At 47.5° E.L., Intelsat 10 will be collocated with Intelsat 709.

During the drift of Intelsat 10 from 68.5° E.L. to 47.5° 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:

14000.5 MHz (RHCP)
14499.5 MHz (H)

Downlink:

12747.5 MHz (H and RHCP)
12748.5 MHz (H and RHCP)

Once on-station at 47.5° E.L., Intelsat will operate the following Intelsat 10 communications frequencies:

3700-4200 MHz
5925-6425 MHz

14.0-14.5 GHz
11.45-11.7 GHz
12.25-12.75 GHz

Grant of this STA request is in the public interest because it will allow Intelsat to meet customer demand at 47.5° E.L.

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.

SAT-LOA-19991119-00112, SAT-STA-20010608-00049, and SAT-STA-20010627-00059 (2001).

⁵ See Letter from Susan H. Crandall, Intelsat, to Marlene H. Dortch, FCC, File No. SAT-LOA-20111024-00208 (filed Sept. 20, 2012).

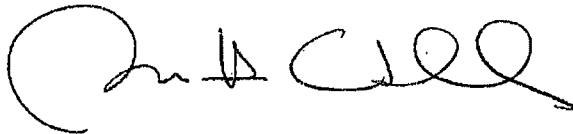
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Should any interference occur during the drift, Intelsat will take all reasonable steps to eliminate such interference. Once on-station at 47.5° E.L., Intelsat will operate the communications payload in conformance with Germany's coordination agreements 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. Except briefly for Intelsat 709, Intelsat 10 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.⁶ 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 10 at 47.5° E.L. Finally, Intelsat is not aware of any system with an overlapping station-keeping volume with Intelsat 10 at 47.5° 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

⁶ Intelsat 709 and Intelsat 10 for some period of time will be operated in the same station-keeping box. Intelsat will take all necessary measures to ensure safe station-keeping of Intelsat 709 and Intelsat 10.