

S2229 SAT-STA-20121119-00200 IB2012002680
Intelsat License LLC
INTELSAT 7



File # SAT-STA-20121119-00200
Call Sign S2229 Grant Date 11/28/12
(or other identifier)
Term Dates period of
From 11/25/12 To: 30 days
Approved: *Stephen J. Duall*
Stephen J. Duall
Chief, Satellite Policy Branch

Approved by OMB
3060-0678

Date & Time Filed: Nov 19 2012 4:52:16:640PM
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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 Extension of Special Temporary Authority to Drift and Operate Intelsat 7, Call Sign S2229

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–20121119–00200
Call Sign S2229

The application of Intelsat License LLC (Intelsat) for special temporary authority, IBFS File No. SAT–STA–20121119–00200, IS GRANTED. Specifically, Intelsat is authorized, for a period of 30 days, commencing November 25, 2012, to continue to perform telemetry, tracking, and command operations necessary to drift the Intelsat 7 space station (Call Sign S2229) from the 68.65° E.L. orbital location to the 59.85° E.L. orbital location, using the 11.451 GHz and 11.453 GHz (space-to-Earth) and 13.998 GHz (Earth-to-space) frequencies. Intelsat is also authorized, on a temporary basis, to provide Fixed-Satellite Service (FSS) via Intelsat 7 at the 59.85° E.L. orbital location in the 3400-3700 MHz (space-to-Earth), 6425-6725 MHz (Earth-to-space), 10.95-11.2 GHz (space-to-Earth), 11.45-11.70 GHz (space-to-Earth), and 13.75-14.25 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 shall be on an unprotected and non-harmful interference basis, *i.e.*, Intelsat shall not cause harmful interference to, and shall 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 shall cease operations immediately upon notification of such interference and shall immediately inform the Commission, in writing, of such an event.
2. During the drift to the 59.85° E.L. orbital location, Intelsat may not operate the communications payload on the Intelsat 7 space station.
3. Intelsat shall coordinate the operations of Intelsat 7 with existing geostationary space stations to ensure that no unacceptable interference results from its operations at the 59.85° E.L. orbital location.
4. 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.
5. While at the 59.85° E.L. orbital location, Intelsat shall maintain the Intelsat 7 space station with an east/west longitudinal station-keeping tolerance of +/- 0.05 degrees.
6. Intelsat shall operate Intelsat 7 at the 59.85° E.L. orbital location in accordance with any existing coordination agreements for this 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 country.
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.
9. Intelsat's operation of the Intelsat 7 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

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of Section 25.202(a)(1) of the Commission's rules, 47 C.F.R. § 25.202(a)(1).

10. Pursuant to footnote US337 of the United States Table of Frequency Allocations, 47 C.F.R. § 2.106, any earth station in the United States and its possessions (US&P) communicating with the Intelsat 7 space station in the 13.75-14.0 GHz frequency band (Earth-to-space) is required to coordinate through National Telecommunications and Information Administration's (NTIA's) Interdepartment Radio Advisory Committee's (IRAC's) Frequency Assignment Subcommittee (FAS).¹

11. 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 3400-3700 MHz and 6675-6725 MHz frequency bands at the 68.5° E.L. orbital location.² Grant of this authorization does not constitute an announcement that these frequencies are available for reassignment.

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

13. 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-20121119-00200</u>
	Call Sign <u>S2229</u> Grant Date <u>11/28/12</u> (or other identifier)
	Term Dates period of From <u>11/25/12</u> To: <u>30 days</u>
	Approved: <u>Stephen J. Duall</u> Stephen J. Duall Chief, Satellite Policy Branch

¹ Footnote US337 requires that earth stations operating in the 13.75-13.8 GHz frequency band shall be coordinated through NTIA's IRAC's FAS to minimize interference to the forward space-to-space link of the National Aeronautics and Space Administration Tracking and Data Relay Satellite System. 47 C.F.R. § 2.106, US337.

² 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 7. See IBFS File No. SAT-LOA-20111024-00208, granted July 26, 2012. Intelsat 20, however, will not use the 3400-3700 MHz and 6675-6725 MHz frequency bands that are currently authorized for use by Intelsat 7. *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 SATSTA2012102600189 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
2012-12-24 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, from November 25, 2012 through December 24, 2012, of the Special Temporary Authority to drift Intelsat 7 (call sign S2229) from 68.65 E.L. to 59.85 E.L., and to operate the satellite at that location in the C- and Ku-bands collocated with Intelsat 904.

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.

November 19, 2012

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



Re: Request for Extension of Special Temporary Authority to
Drift and Operate Intelsat 7
Call Sign S2229

Dear Ms. Dortch:

Intelsat License LLC ("Intelsat") herein requests an additional 30 days—from November 25, 2012 through December 24, 2012—of the Special Temporary Authority ("STA")¹ to drift Intelsat 7 (call sign S2229) from 68.65° E.L. to 59.85° E.L., and to operate the satellite at that location in the C- and Ku-bands collocated with Intelsat 904.² Intelsat has a pending 180-day STA request to drift and operate the satellite³ and expects shortly to file an application for modification of the Intelsat 7 license to allow for its permanent operation at 59.85° E.L.

Intelsat 7 currently is located at 68.65° E.L.⁴, where it was recently replaced by Intelsat 20.⁵ Due to an unexpected delay, the drift of Intelsat 7 to 59.85° E.L. is scheduled to begin on November 23, 2012, with the satellite now expected to be on-station in late December 2012.

During the drift of Intelsat 7 from 68.65° E.L. to 59.85° 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-00909, File No. SAT-STA-20120924-00154 (Nov. 2, 2012) (Public Notice).

³ See *Policy Branch Information; Satellite Space Applications Accepted for Filing*, Report No. SAT-00908, File No. SAT-STA-20121026-00189 (Nov. 2, 2012) (Public Notice).

⁴ See *Policy Branch Information; Actions Taken*, Report No. SAT-00222, File No. SAT-MOD-20040405-00078 (June 18, 2004) (Public Notice).

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

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

Uplink:

13998 MHz (RHCP)

Downlink:

11451 MHz (H and LHCP)

11453 MHz (V and LHCP)

Once on-station at 59.85° E.L., Intelsat 7 will operate in the following communications frequencies:

3400-3700 MHz

6425-6725 MHz

10.95-11.2 GHz

11.45-11.7 GHz

13.75-14.25 GHz

Grant of this STA extension request is in the public interest because it will allow Intelsat to meet additional customer demand at 59.85° E.L.

Grant of this STA extension 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 Intelsat 7 is on-station at 59.85° 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.

Additionally, Intelsat agrees to operate Intelsat 7 at 59.85° E.L. in accordance with the frequency-related conditions in the Commission's 2004 order granting authority for the satellite to operate at 68.5° E.L.⁶

⁶ See *PanAmSat Licensee Corp. Application for Authority to Launch and Operate a Hybrid Communications Satellite Known at 68.5° E.L.*, Order and Authorization, 19 FCC Rcd 6137, File Nos. SAT-LOA-19960202-00017, SAT-AMD-19960411-0055, SAT-AMD-

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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 7 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 7 at 59.85° E.L. Finally, Intelsat is not aware of any system with an overlapping station-keeping volume with Intelsat 7 at 59.85° 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

19971119-00187, SAT-AMD-19991217-00129, and SAT-STA-20001115-00162 (2004). Intelsat 7's location subsequently was changed to 68.65° E.L. *See supra* n.2.