

S2913 SAT-STA-20151211-00082 IB2015002410
Intelsat License LLC
IS29e



*with conditions

File # SAT-STA-20151211-00082

Call Sign S2913 Grant Date 01/28/16

(or other identifier) Term Dates period of

From 02/08/16 To: 60 days

Approved: Stephen J. Duall

Stephen J. Duall
Chief, Satellite Policy Branch

Approved by OMB
3060-0678

Date & Time Filed: Dec 11 2015 3:49:23:606PM
File Number: SAT-STA-20151211-00082
Callsign:

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 Conduct In-Orbit Testing of the Intelsat 29e Satellite; Call Sign S2913


I. Applicant

Name:	Intelsat License LLC	Phone Number:	703-559-7848
DBA Name:		Fax Number:	703-559-8539
Street:	c/o Intelsat Corporation 7900 Tysons One Place	E-Mail:	susan.crandall@intelsat.com
City:	McLean	State:	VA
Country:	USA	Zipcode:	22102 -5972
Attention:	Susan H. Crandall		

**Attachment to Grant
Intelsat License LLC
IBFS File No. SAT-STA-20151211-00082
Call Sign S2913**

The application of Intelsat License LLC (Intelsat) for special temporary authority, IBFS File No. SAT-STA-20151211-00082, is GRANTED. Accordingly, Intelsat is authorized for a period of 60 days, commencing on February 8, 2016, to continue to conduct in-orbit testing of the Intelsat 29e space station (Call Sign S2913) at the 49.7° W.L. orbital location using the 3700-4200 MHz (space-to-Earth), 5850-6725 MHz (Earth-to-space), 10.7-12.5 GHz (space-to-Earth), 12.75-13.25 GHz (Earth-to-space), 13.75-14.5 GHz (Earth-to-space), 17.3-17.55 GHz (Earth-to-space), 19.7-20.2 GHz (space-to-Earth), and 29.5-30.0 GHz (Earth-to-space) frequency bands. Additionally, Intelsat is granted authority to continue to conduct telemetry, tracking, and command (TT&C) operations using center frequencies of 3701.25 MHz, 3701.75 MHz, 3702.25 MHz, and 3702.75 MHz (space-to-earth) and 5850.5 MHz, 5853 MHz, 6422 MHz and 6424.5 MHz (Earth-to-space) necessary to maintain Intelsat 29e at 49.7° W.L. and to drift the Intelsat 29e space station to its authorized location of 50.0° W.L.¹ 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 shall not claim protection from interference caused to it by, any other lawfully operating station.
2. In the event of any harmful interference under this grant of special temporary authority, Intelsat must cease operations immediately upon notification of such interference and must inform the Commission, in writing, immediately of such an event.
3. Intelsat must coordinate the operations of Intelsat 29e with existing geostationary space stations to ensure that no unacceptable interference results from its operations during its drift from the 49.7° W.L. orbital location to the 50.0° W.L. orbital location.
4. Intelsat 29e's operations during its drift from the 49.7° W.L. orbital location to the 50.0° W.L. orbital location must be limited to TT&C and must not include the provision of commercial services.
5. During in-orbit testing, Intelsat shall maintain the Intelsat 29e space station within an east-west longitudinal station-keeping tolerance of ± 0.05 degrees of the 49.7° W.L. orbital location.
6. Intelsat must coordinate the IOT operations of Intelsat 29e with existing geostationary space stations to ensure IOT operations in the 3700-4200 MHz, 10.7-12.5 GHz, and 19.7-20.2 GHz (space-to-Earth); and 5850-6725 MHz, 12.75-13.25 GHz, 13.75-14.5 GHz, 17.3-17.55 GHz, and 29.5-30.0 GHz (Earth-to-space) frequency bands at 49.7° W.L. do not cause unacceptable interference.
7. 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 of the Commission's rules 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 public notice indicating that this action was taken.

 GRANTED* International Bureau	File # <u>SAT-STA-20151211-00082</u>
	Call Sign <u>S2913</u> Grant Date <u>01/28/16</u> (or other identifier)
	From <u>02/08/16</u> Term Dates <u>period of 60 days</u> To: <u>60 days</u>
	Approved: <u>Stephan J Duall</u>

¹ See Intelsat License LLC's Application for Authority to Launch and Operate Replacement Satellite Intelsat 29e at 50.0° W.L., IBFS File No. SAT-LOA-20130722-00097 (Grant stamp, May 21, 2015).

2. Contact

Name:	Cynthia J. Grady	Phone Number:	703-559-6949
Company:	Intelsat Corporation	Fax Number:	703-559-8539
Street:	7900 Tysons One Place	E-Mail:	cynthia.grady@intelsat.com
City:	McLean	State:	VA
Country:	USA	Zipcode:	22102 -5972
Attention:		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
49.7 W.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 a grant of Special Temporary Authority for 60 days, from February 8, 2016 through April 7, 2016, to conduct in-orbit testing of the Intelsat 29e satellite (Call Sign S2913) at 49.7 W.L. and to drift the satellite to its permanent location of 50.0 W.L. Intelsat 29e is scheduled to be launched on January 27, 2016.

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
Cynthia J. Grady

11. Title of Person Signing
Regulatory 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

The public reporting for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the required data, and completing and reviewing the collection of information. If you have any comments on this burden estimate, or how we can improve the collection and reduce the burden it causes you, please write to the Federal Communications Commission, AMD-PERM, Paperwork Reduction Project (3060-0678), Washington, DC 20554. We will also accept your comments regarding the Paperwork Reduction Act aspects of this collection via the Internet if you send them to PRA@fcc.gov. PLEASE DO NOT SEND COMPLETED FORMS TO THIS ADDRESS.

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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.

December 11, 2015

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

Re: Request for Special Temporary Authority to Conduct In-Orbit Testing of the Intelsat 29e Satellite; Call Sign S2913

Dear Ms. Dortch:

Intelsat License LLC (“Intelsat”) herein requests a grant of Special Temporary Authority (“STA”)¹ for 60 days, from February 8, 2016 through April 7, 2016, to conduct in-orbit testing (“IOT”) of the Intelsat 29e satellite (Call Sign S2913) at 49.7° W.L. and to drift the satellite to its permanent location of 50.0° W.L.² Intelsat 29e is scheduled to be launched on January 27, 2016.

Intelsat 29e IOT payload testing will be performed in the following frequency bands:

- 3700-4200 MHz, 10700-12500 MHz, and 19700-20200 MHz (space-to-Earth); and
- 5850-6725 MHz, 12750-13250 MHz, 13750-14500 MHz, 17300-17550 MHz, and 29500-30000 MHz (Earth-to-space).

Telemetry, Tracking, and Command (“TT&C”) services for Intelsat 29e will be performed in the following center frequencies: 3701.25 MHz, 3701.75 MHz, 3702.25 MHz, and 3702.75 MHz (space-to-Earth); and 5850.5 MHz, 5853.0 MHz, 6422.0 MHz, and 6424.5 MHz (Earth-to-space).

In support of its request, Intelsat submits the following information.

During the IOT of Intelsat 29e, Intelsat will operate in the above referenced C-, Ku-, and Ka-bands. To Intelsat’s knowledge, the only co-frequency, co-coverage, satellites within plus/minus six degrees of 49.7° W.L. are EchoStar XV at 45.1° W.L., Intelsat 14 at 45.0° W.L., NSS 806 at 47.6° W.L., Intelsat 1R at 50.0° W.L., Intelsat 23 at 53.0° W.L., Amazonas 1 at 55.4° W.L., Inmarsat 5F2 at 55.0° W.L., Intelsat 805 at 55.5° W.L., and Intelsat 34 at 55.5° W.L. Intelsat has completed coordination discussions with DISH Network, the operator of EchoStar XV; Hispasat, the operator of Amazonas 1; and Inmarsat, the

¹ Intelsat has filed this STA request, an FCC Form 159, and a \$930.00 filing fee electronically via the International Bureau's Filing System.

² See *Policy Branch Information; Actions Taken*, Report No. SAT-01086, File No. SAT-LOA-20130722-0097 (May 22, 2015) (Public Notice). Only the satellite’s TT&C frequencies will be utilized during the drift from 49.7° W.L. to 50.0° W.L.

Ms. Marlene H. Dortch
December 11, 2015
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operator of Inmarsat 5F2, regarding the Intelsat 29e IOT. Intelsat is currently in coordination discussions with SES World Skies, the operator of NSS 806 regarding the Intelsat 29e IOT and expects to complete discussions shortly. With regard to the remaining spacecraft, Intelsat has internally coordinated the proposed testing with the operations of these satellites. In the unlikely event that harmful interference occurs, Intelsat will take all necessary steps to eliminate the interference.

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 during IOT at 49.7° W.L. Intelsat 29e 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 29e at 49.7° W.L. Finally, Intelsat is not aware of any system with an overlapping station-keeping volume with Intelsat 29e at 49.7° W.L. that is the subject of an International Telecommunications Union ("ITU") filing and that is either in orbit or progressing towards launch.

The IOT of Intelsat 29e's C-, Ku-, and Ka-band payloads at 49.7° W.L. is a critical step in ensuring that the satellite will be fully operational at 50.0° W.L. This, in turn, will ensure continuity of service to customers at the 50.0° W.L. location, and thereby promotes the public interest.

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

Sincerely,



Cynthia J. Grady
Regulatory Counsel
Intelsat Corporation

cc: Stephen Duall
Jay Whaley
Cindy Spiers