

S2959
Intelsat License LLC
IS35e

SAT-STA-20170314-00050

IB2017000689



File # SAT-STA-20170314-00050

Call Sign S2959 Grant Date 06/14/17

(or other identifier)

From 06/30/17 Term Dates period of To: 90 days

Approved: Stephen J. Duall

Stephen J. Duall
Chief, Satellite Policy Branch

Approved by OMB
3060-0678

Date & Time Filed: Mar 14 2017 5:04:10:533PM
File Number: SAT-STA-20170314-00050
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:
Special Temporary Authority to Conduct In-Orbit Testing of Intelsat 35e; Call Sign S2959

1. 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-20170314-00050

IBFS File No(s):	SAT-STA-20170314-00050 ¹	<p>GRANTED – With Conditions</p>  <p>International Bureau Satellite Division</p>
Licensee/Grantee:	Intelsat License LLC	
Call Sign:	S2959	
Satellite Name:	Intelsat 35e	
Orbital Location: (required station-keeping tolerance)	33.0° W.L. (+/- 0.05 degrees east/west)	
Administration:	United States of America	
Nature of Service:	Fixed-Satellite Service (FSS)	
Scope of Grant:	Special temporary authority for a period of 90 days to perform in-orbit testing (IOT) of Intelsat 35e at the 33.0° E.L. orbital location and to perform Telemetry, Tracking, and Command (TT&C) operations necessary to maintain Intelsat 35e at 33.0° W.L. and to effect drift of Intelsat 35e to its authorized orbital location at 34.5° W.L. upon completion of IOT.	
Service Area(s):	Not Applicable	
Frequencies:	Payload testing frequencies: 3625–4200 MHz (space-to-Earth) 5850–6425 MHz (Earth-to-space) 10.95–11.2 GHz (space-to-Earth) 11.45–11.7 GHz (space-to-Earth) 13.75–14.0 GHz (Earth-to-space) 14.0–14.5 GHz(Earth-to-space) TT&C center frequencies: 4197.75 MHz, 4198.25 MHz, 4198.75 MHz, and 4199.25 MHz (space-to-Earth); and 6424.5 MHz, and 5853.0 MHz (Earth-to-space)	
<p>Operations under this grant must comport with the legal and technical specifications set forth by the applicant or petitioner and with Federal Communication Commission’s rules not waived herein. This grant is also subject to the following conditions:</p> <ol style="list-style-type: none"> 1. All operations under this grant of special temporary authority must be on an unprotected and non-harmful interference basis, <i>i.e.</i>, 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 35e with existing geostationary space stations to ensure that no unacceptable interference results from its operations at the 33.0° W.L. orbital location or during drift from the 33.0° W.L. orbital location to the 34.5° W.L. orbital location. 4. Intelsat 35e’s operations at the 33.0° W.L. orbital location must be limited to IOT and must not include the provision of commercial services. 5. Intelsat must operate only the TT&C frequencies on Intelsat 35e during the space station's drift from the 33.0° W.L. orbital location to the 34.5° W.L. orbital location. 		

¹ Due to a launch delay, Intelsat filed a supplement to change the requested date of commencement of this IOT STA to June 30, 2017. See Letter from Cynthia J. Grady, Regulatory Counsel, Intelsat Corporation, to Marlene H. Dortch, Secretary, FCC, dated June 1, 2017.

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6. During in-orbit testing, Intelsat must maintain the Intelsat 35e space station within an east-west longitudinal station-keeping tolerance of ± 0.05 degrees of the 33.0° W.L orbital location.

7. IOT operations for Intelsat 33e must comply with the conditions imposed in SAT-LOA-20160408-00034.²

Licensee/grantee is afforded thirty (30) days from the date of release of this action to decline the grant as conditioned. Failure to respond within this period will constitute formal acceptance of the grant as conditioned.

This action is taken pursuant to Section 0.261 of the Commission's rules on delegated authority, 47 C.F.R. § 0.261, and is effective upon release.

Station licenses are subject to the conditions specified in Section 309(h) of the Communications Act of 1934, as amended, 47 U.S.C. § 309(h).

Action Date:	June 14, 2017	
Term Dates	From: June 30, 2017	To: period of 90 days
Approved:	 Stephen J. Duall Chief, Satellite Policy Branch	

² See Intelsat License LLC's Application for Authority to Construct, Deploy, and Operate Intelsat 35e, a Replacement Satellite with New Frequencies at 34.5° W.L., IBFS File No. SAT-LOA-20160408-00034 (Grant stamp, Oct. 5, 2016).

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

7. Requested Extended Expiration Date

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INTELSAT

Envision. Connect. Transform.

March 14, 2017

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 Intelsat 35e;
Call Sign S2959

Dear Ms. Dortch:

Intelsat License LLC (“Intelsat”) herein requests a grant of Special Temporary Authority (“STA”)¹ for 90 days, beginning May 25, 2017, to conduct in-orbit testing (“IOT”) of the Intelsat 35e satellite (Call Sign S2959) at 33.0° W.L. and to drift the satellite to its permanent location of 34.5° W.L.² Intelsat 35e is scheduled to be launched no earlier than May 15, 2017. The IOT period is expected to last approximately 45 days and the drift to 34.5° W.L. is expected to last approximately five days.³

Intelsat 35e payload testing will be performed in the following frequency bands:

- 3625 – 4200 MHz, 10950 – 11200 MHz, and 11450 – 11700 MHz, (space-to-Earth); and
- 5850 – 6425 MHz, 13750 – 14000 MHz, and 14000 – 14500 MHz (Earth-to-space).

Telemetry, Tracking, and Command (“TT&C”) services for Intelsat 35e will be performed in the following center frequencies:

- 4197.75 MHz, 4198.25 MHz, 4198.75 MHz, and 4199.25 MHz (space-to-Earth); and
- 5853.0 MHz and 6424.5 MHz (Earth-to-space).

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

During the IOT of Intelsat 35e, Intelsat will operate in the above referenced C- and Ku-bands. Intelsat has identified the operational satellites within +/-6 degrees of the IOT location. Coordination is ongoing

¹ Intelsat has filed this STA request, an FCC Form 159, and a \$945.00 filing fee electronically via the International Bureau’s Filing System.

² See *Policy Branch Information; Actions Taken*, Report No. SAT-01191, SAT-LOA-20160408-00034 (Oct. 7, 2016) (Public Notice). During the drift from 33.0° W.L. to 34.5° W.L., only the satellite’s TT&C frequencies will be utilized.

³ Intelsat is seeking authority for 90 days to accommodate a possible launch delay.

Ms. Marlene H. Dortch
March 14, 2017
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with several operators of such satellites to resolve potential interference issues. Additionally, Intelsat is internally coordinating the proposed testing with potentially affected Intelsat satellites. Intelsat expects to complete coordination discussions before IOT of the Intelsat 35e satellite commences. 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 33.0° W.L. Intelsat 35e 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 Federal Communications Commission ("FCC") licensed system, or any other system applied for and under consideration by the FCC, having an overlapping station-keeping volume with Intelsat 35e at 33.0° W.L. In addition, Intelsat is not aware of any system with an overlapping station-keeping volume with Intelsat 35e at 33.0° 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 35e's C- and Ku-band payloads at 33.0° W.L. is a critical step in ensuring that the satellite will be fully operational at 34.5° W.L. This, in turn, will provide additional capacity to customers at the 34.5° 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,

/s/ Cynthia J. Grady

Cynthia J. Grady
Regulatory Counsel
Intelsat Corporation

cc: Stephen Duall
Jay Whaley
Cindy Spiers