

S2947 SAT-STA-20180905-00066 IB2018005397
Horizons-3 License LLC



File # SAT-STA-20180905-00066
Call Sign S2947 Grant Date 10/11/18
(or other identifier)
Term Dates period of
From 10/17/18 To: 60 days
Approved: Stephen J. Duall

Approved by OMB
3060-0678

Date & Time Filed: Sep 5 2018 12:30:53:983PM
File Number: SAT-STA-20180905-00066
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 to Conduct In-orbit Testing of the Horizons-3e Satellite, Call Sign S2947

1. Applicant

Name:	Horizons-3 License LLC	Phone Number:	703-559-7848
DBA Name:		Fax Number:	703-559-8539
Street:	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-20180905-00066

IBFS File No(s):	SAT-STA-20180905-00066	<p>GRANTED – With Conditions</p>  <p>International Bureau Satellite Division</p>
Licensee/Grantee:	Horizons-3 License LLC	
Call Sign:	S2947	
Satellite Name:	Horizons 3e	
Orbital Location: (required station-keeping tolerance)	164.2° E.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 60 days to perform in-orbit testing (IOT) of Horizons 3e at the 164.2° E.L. orbital location and to perform Telemetry, Tracking, and Command (TT&C) operations necessary to maintain Horizons 3e at 164.2° E.L. and to effect drift of Horizons 3e to its authorized orbital location at 169.0° E.L. upon completion of IOT.	
Service Area(s):	Not Applicable	
Frequencies:	Payload testing frequencies: 3700–4200 MHz (space-to-Earth) 5925-6425 MHz (Earth-to-space) 10.85-11.7 GHz (space-to-Earth) 12.2-12.75 MHz (space-to-Earth) 12.92-13.25 GHz (Earth-to-space) 13.75-14.5 GHz (Earth-to-space) TT&C frequencies: 4197.75 MHz, 4198.25 MHz, 4198.75 MHz, and 4199.25 MHz (space-to-Earth); and 5850.0-5853.5 MHz and 6421.5-6425.0 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 must 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 Horizons 3e with existing geostationary space stations to ensure that no unacceptable interference results from its operations at the 164.2° E.L. orbital location or during drift from the 164.2° E.L. orbital location to the 169.0° E.L. orbital location. 4. Horizons 3e’s operations at the 164.2° E.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 Horizons 3e during the space station's drift from the 164.2° E.L. orbital location to the 169.0° E.L. orbital location. 6. During in-orbit testing, Intelsat must maintain the Horizons 3e space station within an east-west longitudinal station-keeping tolerance of ±0.05 degrees of the 164.2° E.L. orbital location. 		

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7. IOT operations for Horizons 3e must comply with the conditions imposed in IBFS File No. SAT-MOD-20170622-00093.¹

8. Horizons-3's request that the waivers previously granted to operations of Horizons 3e at 169.0° E.L., particularly waivers of 47 CFR §§ 25.202(a)(1), 2.106, and 2.106, US245, be extended to IOT operations of the satellite at 164.2° E.L., is granted for the reasons set forth in the previous grant.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:	October 11, 2018	
Term Dates	From: October 17, 2018	To: period of 60 days

Approved:



Stephen J. Duall
Chief, Satellite Policy Branch

¹ See Horizons-3 License LLC's Application for Authority to Modify the Authorization for Horizons 3e at 169.0° E.L., IBFS File No SAT-MOD-20170622-00093 (Grant stamp, April 24, 2018).

² *Id.*

2. Contact

Name:	Cynthia J. Grady	Phone Number:	703-559-6949
Company:	Intelsat US LLC	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

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.)

Horizons-3 License LLC herein requests a grant of Special Temporary Authority for 60 days, beginning October 17, 2018 to conduct in-orbit testing of the Horizons 3e satellite (Call Sign S2947) at 164.2 E.L. and to drift the satellite to its permanent location of 169.0 E. L. Horizons 3e is scheduled to be launched on September 25, 2018. The IOT period is

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 US LLC

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.

8. Description

Horizons-3 License LLC herein requests a grant of Special Temporary Authority for 60 days, beginning October 17, 2018 to conduct in-orbit testing of the Horizons 3e satellite (Call Sign S2947) at 164.2 E.L. and to drift the satellite to its permanent location of 169.0 E.L. Horizons 3e is scheduled to be launched on September 25, 2018. The IOT period is expected to last approximately forty days and the drift to 169.0 E.L. is expected to last approximately ten days.

September 5, 2018

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 Horizons 3e Satellite; Call Sign S2947

Dear Ms. Dortch:

Horizons-3 License LLC (“IntelSat”) herein requests a grant of Special Temporary Authority (“STA”)¹ for 60 days, beginning October 17, 2018, to conduct in-orbit testing (“IOT”) of the Horizons 3e satellite (Call Sign S2947) at 164.2° E.L. and to drift the satellite to its permanent location of 169.0° E.L.² Horizons 3e is scheduled to be launched on September 25, 2018. The IOT period is expected to last approximately forty days and the drift to 169.0° E.L. is expected to last approximately ten days.

Horizons 3e IOT payload testing will be performed in the following frequency bands:

- 3700-4200 MHz, 10850-11700 MHz and 12200-12750 MHz (space-to-Earth); and
- 5925-6425 MHz, 12920-13250 MHz, and 13750-14500 MHz (Earth-to-space).

Telemetry, Tracking, and Command (“TT&C”) services for Horizons 3e will be performed in the following center frequencies and frequency bands:

- 4197.75 MHz, 4198.25 MHz, 4198.75 MHz, and 4199.25 MHz (space-to-Earth); and
- 5850.0-5853.5 MHz and 6421.5-6425.0 MHz (Earth-to-space).

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

¹ IntelSat has filed this STA request, an FCC Form 159, and a \$980.00 filing fee electronically via the International Bureau's Filing System.

² See *Policy Branch Information; Actions Taken*, Report No. SAT-01313, File No. SAT-MOD-20170622-00093 (Apr. 27, 2018) (Public Notice). During the drift from 164.2° E.L. to 169.0° E.L., only the satellite's TT&C frequencies will be utilized.

Ms. Marlene H. Dortch
September 5, 2018
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During the IOT of Horizons 3e, 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 with several operators to resolve potential interference issues. Intelsat expects to complete coordination discussions before launch of the Horizons 3e satellite. 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 164.2° E.L. Horizons 3e 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 Horizons 3e at 164.2° E.L. In addition, Intelsat is not aware of any system with an overlapping station-keeping volume with Horizons 3e at 164.2° E.L. that is the subject of an International Telecommunications Union (“ITU”) filing and that is either in orbit or progressing towards launch.

Finally, Intelsat requests that the waivers previously granted to Horizons 3e at 169.0° E.L. be extended to the satellite at 164.2° E.L. In particular, Intelsat requests that the previously-granted waivers of Sections 25.202(a)(1), 2.106, and Footnote US245 of the U.S. Table of Allocations be extended to the satellite at 164.2° E.L., for the reasons previously set forth in the license grant.³

The IOT of Horizons 3e’s C- and Ku-band payloads at 164.2° E.L. is a critical step in ensuring that the satellite will be fully operational at 169.0° E.L. This, in turn, will provide additional capacity to customers at the 169.0° E.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

³ See *supra* n.2.