

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:  
Request for Extension of Special Temporary Authority for a Vehicle-mounted Terminal to Communicate with Intelsat 29e

1. Applicant

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

File # SES-STA-20180322-00266  
E170121 Call Sign S2-18 Grant Date S2-18  
(or other identifier)  
Term Dates From: S2-18 To: 9-1-18  
Approved: Susan H. Crandall



Applicant: Intelsat License LLC-  
File No.: SES-STA-20180322-00266  
Call Sign: E170121  
Special Temporary Authority

Intelsat License, LLC- is granted a special temporary for 30 days, beginning May 02, 2018, to utilize a vehicle-mounted 18-inch Rantec Airborne SATCOM terminal to communicate with Intelsat 29e (S2913) at the 50° W.L. orbital location while the vehicle is in motion in Maryland, Virginia, West Virginia, North Carolina, South Carolina, Georgia, and Florida in order to test a new product. All testing will occur on the ground and will be performed in the following frequency bands: 14.0-14.5 GHz (Earth-to-space) and 11.7-12.2 GHz (space-to-Earth), under the following conditions:

1. Operations under this authority are on a non-interference basis only.
2. Operations under this authority are on a non-protected basis only.
3. License must comply with 47 C.F.R. 25.204(i), within 125 km of the TDRSS sites identified in §25.222(d), transmissions in the 14.0-14.2 GHz (Earth-to-space) band shall not exceed an e.i.r.p. spectral density towards the horizon of 12.5 dBW/MHz, and shall not exceed an e.i.r.p. towards the horizon of 16.3 d BW.
4. All operations under this grant of special temporary authority shall be on an unprotected and non-harmful interference basis. Intelsat License LLC's (E170121), shall not cause harmful interference to, and shall not claim protection from interference caused to it by, any other lawfully operating radio communication system.
5. In the event of any harmful interference under this grant of special temporary authority, Intelsat License LLC's (E170121), must cease operations immediately upon notification of such interference, and must inform the Commission, in writing, immediately of such an event.
6. Any action taken or expense incurred as a result of operations pursuant to this special temporary authority is solely at Intelsat License LLC's risk.
7. Continuation of SES-STA-20180124-00059 was authorized pursuant to Section 1.62 of the Commission's rules 47 C.F.R. § 1.62.
8. 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.



File # SES-STA-20180322-00266  
E170121  
Call Sign E170121 Grant Date 5-2-18  
(or other identifier)  
Term Dates  
From: 5-2-18 To: 6-1-18  
Approved: Paul E. [Signature]

<b>2. Contact</b>	
<b>Name:</b> Cynthia J. Grady	<b>Phone Number:</b> 703-559-6949
<b>Company:</b> Intelsat Corporation	<b>Fax Number:</b> 703-559-8539
<b>Street:</b> 7900 Tysons One Place	<b>E-Mail:</b> cynthia.grady@intelsat.com
<b>City:</b> McLean	<b>State:</b> VA
<b>Country:</b> USA	<b>Zipcode:</b> 22102 -5972
<b>Attention:</b>	<b>Relationship:</b> 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?	
<input checked="" type="radio"/> If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R. Section 1.1114).	
<input type="radio"/> Governmental Entity <input type="radio"/> Noncommercial educational licensee	
<input type="radio"/> Other (please explain):	
4b. Fee Classification CGB - Mobile Satellite Earth Stations	
5. Type Request	
<input type="radio"/> Use Prior to Grant <input type="radio"/> Change Station Location <input checked="" type="radio"/> Other	
6. Requested Use Prior Date	
7. City	
8. Latitude (dd mm ss.s h) 0 0 0.0	

9. State	10. Longitude (dd mm ss.s h) 0 0 0.0
11. Please supply any need attachments. Attachment 1: STA Request                      Attachment 2: Attachment 3:	
12. 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.) <div style="border: 1px solid black; padding: 5px;">Intelsat License LLC herein requests an additional 30 days of Special Temporary Authority previously granted Intelsat to utilize a vehicle-mounted 18-inch Rantec Airborne SATCOM terminal to communicate with Intelsat 29e (Call Sign S2913) while the vehicle is in motion in Maryland, Virginia, West Virginia, North Carolina, South Carolina, Georgia, and Florida</div>	
13. 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. <p style="text-align: right;">Yes <input checked="" type="radio"/> No <input type="radio"/></p>	
14. Name of Person Signing Cynthia J. Grady	15. Title of Person Signing Regulatory Counsel, Intelsat Corporation
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.**

## **12. Description**

Intelsat License LLC herein requests an additional 30 days of Special Temporary Authority previously granted Intelsat to utilize a vehicle-mounted 18-inch Rantec Airborne SATCOM terminal to communicate with Intelsat 29e (Call Sign S2913) while the vehicle is in motion in Maryland, Virginia, West Virginia, North Carolina, South Carolina, Georgia, and Florida to test a new product.



**INTELSAT**

*Envision. Connect. Transform.*

March 22, 2018

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

Re: Request for Extension of Special Temporary Authority  
18-inch Ku-band Vehicle-mounted Earth Station Antenna, Call Sign E170121

Dear Ms. Dortch:

Intelsat License LLC (“Intelsat”) herein requests an additional 30 days of Special Temporary Authority (“STA”)<sup>1</sup> previously granted Intelsat to utilize a vehicle-mounted 18-inch Rantec Airborne SATCOM terminal<sup>2</sup> to communicate with Intelsat 29e (Call Sign S2913) while the vehicle is in motion in Maryland, Virginia, West Virginia, North Carolina, South Carolina, Georgia, and Florida to test a new product. All testing will occur on the ground and will continue to be performed in the following frequency bands: 14.0-14.5 GHz and 11.7-12.2 GHz.

The Federal Communications Commission (“FCC” or “Commission”) has previously authorized Intelsat to operate the Smiths Interconnect KuStream® 1500 terminal—then known as the TECOM KuStream® 1500 terminal—to provide advanced mobile broadband services to aircraft using Ku-band frequencies under an earth stations aboard aircraft blanket license (call sign E170121).<sup>3</sup> The Commission has also granted Intelsat STA to operate the Rantec Airborne SATCOM terminal (Call Sign E170121) to communicate with Intelsat 29e in Maryland, Virginia, North Carolina, South Carolina, Georgia, and Florida while the vehicle is in motion.<sup>4</sup>

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<sup>1</sup> Intelsat has filed its STA request, FCC Form 159, a \$200.00 filing fee and this supporting letter electronically via the International Bureau’s Filing System (“IBFS”).

<sup>2</sup> See *Policy Branch Information; Actions Taken*, Public Notice, Report No. SES-02040, File No. SES-STA-20180124-00059 (Feb. 28, 2018) (Public Notice). In error, West Virginia was omitted from the original grant. Intelsat requests its inclusion in the extension.

<sup>3</sup> The FCC authorized Intelsat to operate the Rantec Airborne SATCOM terminal to provide advanced mobile broadband services to aircraft using Ku-band frequencies under an earth stations aboard aircraft blanket license. See *Policy Branch Information; Actions Taken*, Public Notice, Report No. SES-01999, File No. SES-LIC-20170626-00682 (Oct. 11, 2017).

<sup>4</sup> See e.g. See *Policy Branch Information; Actions Taken*, Public Notice, Report No. SES-02040, File No. SES-STA-20180205-00101 (Feb. 28, 2018) (Public Notice).

Ms. Marlene H. Dortch  
March 22, 2018  
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In this application, Intelsat requests an extension of STA to continue to operate in West Virginia in addition to these six states.

In further support of this request, Intelsat incorporates by reference, a radiation hazard analysis report as Exhibit A, submitted with its original STA request. Additionally, Intelsat will not operate within 125 km of any Tracking and Data Relay Satellite System sites. To minimize any potential interference, operations under this STA extension will continue to conform to the Commission's Part 25 Vehicle-Mounted Earth Stations rules.

Grant of this STA extension request will continue to assist Intelsat in testing a new product. This, in turn, will help provide customer service and thereby promotes the public interest.

Please direct any questions regarding this STA extension request to the undersigned at (703) 559-6949.

Respectfully submitted,

*/s/ Cynthia J. Grady*

Cynthia J. Grady  
Regulatory Counsel  
Intelsat Corporation

cc: Paul Blais