

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:  
Request for 180-day STA to Utilize a 9.2m Ka-band Antenna at Intelsat's Riverside Teleport for ViaSat-2 LEOP Services

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		



Applicant: Intelsat License, LLC  
File No.: SES-STA-20170403-00363  
Call Sign: None  
Special Temporary Authority

Intelsat License LLC is granted special temporary authority for 180 days, beginning on June 1, 2017 to November 28, 2017, to operate a 9.2 meter Ka-band antenna located in Riverside, California, to provide launch and early orbit phase services (LEOP) for the ViaSat-2 satellite at 69.90° W.L., licensed by United Kingdom, using the following frequencies: 29501 MHz and 29999 MHz (Earth-to-space) and 18301 MHz and 18303 MHz (space-to-Earth), under the following conditions:

1. All operations must be within the coordinated emission and power limits.
2. The 17.8 - 20.2 GHz band is shared with U.S. Government space stations and associated earth stations in the fixed Satellite Services. Services within the United States over the satellite network of which this is a cooperating earth station are subject to coordination under US334 and operation of the earth station(s) authorized herein will be subject to any technical constraints resulting from this coordination. See 47 C.F.R. Section 2.106, Footnote US334.
3. The LEOP operations must be coordinated with all operators of satellites that use the same frequency bands and are in the LEOP path. All operators of satellites in that path will be provided with an emergency phone number where the licensee can be reached in the event that harmful interference occurs. Currently the 24x7 contact information for the ViaSat-2 satellite LEOP mission is as follows: Ph.: (703) 559-7701 -East Coast Operations Center (primary); (310) 525-5591- West Coast Operations Center (back-up). Request to speak with Harry Burnham or Kevin Bell.
4. All operations shall be on an unprotected and non-harmful interference basis, Intelsat License LLC, shall not cause harmful interference to, and shall not claim protection from interference caused to it by any other lawfully operating station and it shall cease transmission(s) immediately upon notice of such interference.
5. Grant of this authorization is without prejudice to any determination that the Commission may make regarding pending or future Intelsat License LLC applications.
6. This STA can only be used to provide launch and early orbit phase ("LEOP") services for the ViaSat-2 satellite.
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.


"with conditions"

File # SES-STA-20170403-00363

Call Sign N/A Grant Date 05/25/2017  
(or other identifier)

From 06/01/2017 To 11/28/2017

Approved: Paul E. Hlub





**INTELSAT.**

*Envision. Connect. Transform.*

April 3, 2017

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

Re: Request for Special Temporary Authority  
9.2m Ka-band Antenna, Riverside, California

Dear Ms. Dortch:

Intelsat License LLC ("Intelsat") herein requests a grant of Special Temporary Authority ("STA")<sup>1</sup> for 180 days, commencing June 1, 2017, to utilize a 9.2m Ka-band antenna located at its Riverside, California teleport to provide launch and early orbit phase ("LEOP") services for the ViaSat-2 satellite. ViaSat-2 is expected to be launched no earlier than May 5, 2017.<sup>2</sup> The LEOP period is expected to last approximately 180 days.<sup>3</sup>

The ViaSat-2 LEOP operations will be performed in the following frequencies: 29.501 GHz and 29.999 GHz (RHCP) in the uplink, and 18.301 and 18.303 GHz in the downlink (RHCP). The LEOP operations will be coordinated with all operators of satellites that use the same frequency bands and are in the LEOP path.<sup>4</sup> All operators of satellites in that path will be provided with an emergency phone number where the licensee can be reached in the event that harmful interference occurs.

The 24x7 contact information for the ViaSat-2 LEOP mission is as follows:

Ph.: (703) 559-7701 – East Coast Operations Center (primary)  
(310) 525-5591 – West Coast Operations Center (back-up)

Request to speak with Harry Burnham or Kevin Bell.

In further support of this request, Intelsat herewith attaches a waiver request as Exhibit A.

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

<sup>2</sup> The in-orbit testing and the permanent orbital location of ViaSat-2, which Intelsat understands is licensed by the United Kingdom, will be 69.9° W.L.

<sup>3</sup> Intelsat is seeking authority for 180 days to accommodate the longer orbit-raising time period required for an electric propulsion satellite and any launch delays.

<sup>4</sup> Boeing, the manager of the ViaSat-2 LEOP mission, will handle the coordination.

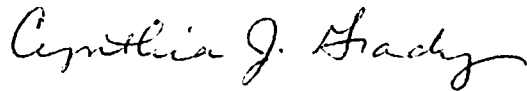
Ms. Marlene H. Dortch  
April 3, 2017  
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Finally, Intelsat clarifies that during the ViaSat-2 mission, Boeing will serve as the mission manager. Boeing will build and send the commands to the Intelsat antenna, which will process and execute the commands. Telemetry received by Intelsat will be forwarded to Boeing. Intelsat will perform the ranging sessions by sending a tone to the spacecraft periodically. Intelsat will remain in control of the baseband unit, RF equipment, and antenna.

Grant of this STA request will allow Intelsat to help launch the ViaSat-2 satellite. This, in turn, will help provide services at the 69.9° W.L. orbital location and thereby promotes the public interest.

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

Respectfully submitted,



Cynthia J. Grady  
Regulatory Counsel  
Intelsat Corporation

cc: Paul Blais

**2. Contact**

<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?

- 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    CGX - Fixed Satellite Transmit/Receive Earth Station

**5. Type Request**

- Use Prior to Grant                       Change Station Location                       Other

6. Requested Use Prior Date

7. City Nuevo

8. Latitude  
(dd mm ss.s h) 33 47 42.7 N

9. State CA	10. Longitude (dd mm ss.s h) 117 5 22.5 W
11. Please supply any need attachments. Attachment 1: STA Request                      Attachment 2: Exhibit A                      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; margin: 10px 0;">Intelsat License LLC herein requests a grant of Special Temporary Authority for 180 days, commencing June 1, 2017, to utilize a 9.2m Ka-band antenna located at its Riverside, California teleport to provide launch and early orbit phase services for the ViaSat-2 satellite. ViaSat-2 is expected to be launched no earlier than May 5, 2017. The LEOP</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. <input checked="" type="radio"/> Yes <input type="radio"/> No	
14. Name of Person Signing Cynthia J. Grady	15. Title of Person Signing Regulatory Counsel, Intelsat Corporation
<b>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).</b>	

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## **12. Description**

Intelsat License LIC herein requests a grant of Special Temporary Authority for 180 days, commencing June 1, 2017, to utilize a 9.2m Ka-band antenna located at its Riverside, California teleport to provide launch and early orbit phase services for the Viasat-2 satellite. Viasat-2 is expected to be launched no earlier than May 5, 2017. The LEOP period is expected to last approximately 180 days.