

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:  
Request for STA Using Castle Rock, Colorado Earth Station KL92 to Provide LEOP Services for the Eutelsat 172B Satellite

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		

180 days "with conditions"

File # SES-STA-20170213-00156

Call Sign KL92 Grant Date 04/04/2017  
(or other identifier)

Term Dates  
From 04/25/2017 To: 10/22/2017

Approved: Paul E. Hines



Application: Intelsat License LLC  
File No.: SES-STA-20170213-00156  
Call Sign: KL92  
Special Temporary Authority



File # SES-STA 20170213-00156 *with conditions*  
Call Sign KL92 Grant Date 04/04/2017  
(or other identifier)  
Term Dates  
From 04/25/2017 To: 10/22/2017  
Approved: *[Signature]*

Intelsat License LLC is granted a special temporary authority for 180 days, under the following conditions, beginning April 25, 2017 to October 22, 2017, to operate its 12.5-meter fixed earth station antenna in Castle Rock, CO to provide launch and early orbit phase (LEOP) services and conduct telemetry, tracking, and command (TT&C) services during in-orbit testing (IOT) at 176° E.L. for the Eutelsat 172B satellite (licensed by France) on the following center frequencies: 13750.60 MHz, 13753.60 MHz, 13999.50 MHz, 14002.50 MHz, 14496.80 MHz, and 14499.80 MHz (Earth-to-space), and 11200.60 MHz and 12250.10 MHz (space-to-Earth). Eutelsat 172B satellite is scheduled to launch on April 25, 2017.

1. Uplink (Earth-to-space) frequencies will be on 13750.60 MHz, 13753.60 MHz, 13999.50 MHz, 14002.50 MHz, 14496.80 MHz and 14499.80 MHz (CP) within the coordinated emission and power limits. The maximum EIRP shall not exceed 85 dBW per NTIA manual US 356.
2. Downlink (space-to-Earth) frequencies will be on 11200.60 MHz and 12250.10 MHz (CP).
3. All operators of satellites 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 Eutelsat 172B 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 under this grant of special temporary authority shall be on an unprotected and non-harmful interference basis. Intelsat's, KL92, 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, KL92, must cease operations immediately upon notification of such interference, and must inform the Commission, in writing, immediately of such an event.
6. Grant of this authorization is without prejudice to any determination that the Commission may make regarding pending or future Intelsat License LLC applications.
7. Any action taken or expense incurred as a result of operations pursuant to this STA is solely 'at Intelsat License LLC's risk.
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.



**INTELSAT.**

*Envision. Connect. Transform.*

February 10, 2017

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

Re: Request for Special Temporary Authority  
Castle Rock, Colorado Earth Station KL92

Dear Ms. Dortch:

Intelsat License LLC (“Intelsat”) herein requests a grant of Special Temporary Authority (“STA”)<sup>1</sup> for 180 days, commencing April 25, 2017, to use its Castle Rock, Colorado Ku-band earth station—call sign KL92—to provide launch and early orbit phase (“LEOP”) services and telemetry, tracking, and command (“TT&C”) during in-orbit testing (“IOT”) at 176° E.L. for the Eutelsat 172B satellite. Eutelsat 172B is expected to be launched on April 25, 2017.<sup>2</sup> Intelsat expects the LEOP and IOT periods to last approximately 200 days.<sup>3</sup>

The Eutelsat 172B LEOP and TT&C operations will be performed at the following frequencies: 13750.6 MHz, 13999.5 MHz, 14499.8 MHz, 13753.6 MHz, 14002.5 MHz, and 14496.8 MHz (CP) in the uplink; and 11200.6 MHz and 12250.1 MHz (CP) in the downlink. 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> The TT&C operations at the IOT location will be coordinated with potentially affected adjacent operators. All operators potentially affected by either the drift or the TT&C operations at the IOT location 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 Eutelsat 172B 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.

---

<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 location for Eutelsat 172B, which Intelsat understands is licensed by France, will be at 176° E.L. The final location of Eutelsat 172B will be at 172° E.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.

<sup>4</sup> Airbus, the manager of the Eutelsat 172B LEOP mission, will handle the coordination.

Ms. Marlene H. Dortch  
February 10, 2017  
Page 2

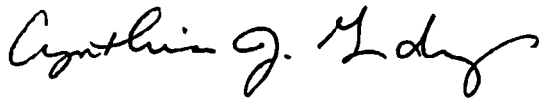
In further support of this request, Intelsat herewith attaches Exhibits A and B, which contain a 13 GHz report and a waiver request. In the extremely unlikely event that harmful interference should occur due to transmissions to or from its earth station, Intelsat will take all reasonable steps to eliminate the interference.

Finally, Intelsat clarifies that during the Eutelsat 172B LEOP mission, Airbus will serve as the mission manager. Airbus 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 Airbus. 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 and safety station-keep the Eutelsat 172B satellite. This, in turn, will help provide additional capacity from the 172° E.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 Castle Rock

8. Latitude  
(dd mm ss.s h) 39 16 38.0 N

9. State CO	10. Longitude (dd mm ss.s h) 104 48 25.0 W
11. Please supply any need attachments. Attachment 1: STA Request                      Attachment 2: Exhibit A                      Attachment 3: Exhibit B	
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: 5px 0;"> IntelSAT License LLC herein requests a grant of Special Temporary Authority for 180 days, commencing April 25, 2017, to use its Castle Rock, Colorado Ku-band earth station, call sign KL92 to provide launch and early orbit phase services and telemetry, tracking, and command during in-orbit testing at 176 E.L. for the Eutelsat 172B satellite. Eutelsat </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. <div style="text-align: right;"> <input checked="" type="radio"/> Yes                      <input type="radio"/> No </div>	
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>	

**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-PER, 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.

Remember – You are not required to respond to a collection of information sponsored by the Federal government, and the government may not conduct or sponsor this collection, unless it displays a currently valid OMB control number or if we fail to provide you with this notice. This collection has been assigned an OMB control number of 3060-0678.

**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 a grant of Special Temporary Authority for 180 days, commencing April 25, 2017, to use its Castle Rock, Colorado Ku-band earth station, call sign KL92 to provide launch and early orbit phase services and telemetry, tracking, and command during in-orbit testing at 176 E.L. for the Eutelsat 172B satellite. Eutelsat 172B is expected to be launched on April 25, 2017.