


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 Riverside, CA Earth Station E060384 to Provide TT&C During IOT and Drift of Eutelsat 172B

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		

30 days "With conditions"



File # SES-STA-20171002-01091
Call Sign E060384 Grant Date 10/06/2017
(or other identifier)
Term Dates
From: 10/09/2017 To: 11/08/2017
Approved: Paul E. Hader

GRANTED
International Bureau

Applicant: Intelsat License, LLC
File No.: SES-STA-20171002-01091
Call Sign: E060384
Special Temporary Authority



"With Conditions"
File # SES-STA-20171002-01091
Call Sign E060384 Grant Date 10/04/17
(or other identifier)
Term Dates
From: 10/09/2017 To: 11/08/2017
Approved: [Signature]

Intelsat License, LLC, is granted a special temporary authority for 30 days, beginning October 9, 2017, to operate its fixed Ku-band earth station in Riverside, California, call-sign E060384, to provide Tracking, Telemetry and Command ("TT&C") services during in-orbit ("IOT") at 176° E.L., for the Eutelsat 172B satellite licensed by France, using the following frequencies: 13750.60 MHz, 13753.60 MHz, 13999.50 MHz, 14002.50 MHz, 14496.80 MHz and 14499.80 MHz (CP) (Earth-to-space), and 11200.6 MHz and 12250.10 MHz (CP) (space-to-Earth) under the following conditions:

1. All operations must be within the coordinated emission and power limits.
2. During the drift to the satellite's permanent orbital location 176° E.L., Intelsat License, LLC, will coordinate with operators of co-frequency satellites in the drift path.
3. 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 Eutelsat 172B satellite 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 License LLC's E060384, 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 E060384, 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 special temporary authority is solely at Intelsat License LLC's risk.
8. This grant is issued pursuant to Section 0.261 of the Commission's rules on delegated authority, 47 C.F.R. § 0.261, and is effective upon release.

Ms. Marlene H. Dortch
September 29, 2017
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In further support of this request, Intelsat herewith attaches Exhibits A and B, which contain a 13 GHz report and a waiver request.⁴ 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 IOT 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 safely station-keep the Eutelsat 172B satellite during IOT. 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,

/s/ Cynthia J. Grady

Cynthia J. Grady
Regulatory Counsel
Intelsat Corporation

cc: Paul Blais
Anthony Asongwed

⁴ As reflected in Exhibit A, Intelsat will limit the transmit power to 82 dBW in order to comply with our coordination requirements with the Navy radars.



INTELSAT.

Envision. Connect. Transform.

September 29, 2017

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

**Re: Request for Special Temporary Authority
Riverside, California Earth Station E060384
Expedited Treatment Requested**

Dear Ms. Dortch:

IntelSat License LLC (“IntelSat”) herein requests a grant of Special Temporary Authority (“STA”)¹ for 30 days, commencing October 9, 2017, to use its Riverside, California Ku-band earth station—call sign E060384—to provide telemetry, tracking, and command (“TT&C”) during in-orbit testing (“IOT”) at 176° E.L. for the Eutelsat 172B satellite. Eutelsat 172B was launched on June 1, 2017.² IntelSat expects the IOT period to last approximately 30 days. IntelSat is requesting expedited treatment due to unexpected antenna conflicts caused by numerous overlapping Ku-band satellite launch support missions.

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 TT&C operations will be coordinated with all potentially affected operators of satellites that use the same frequency bands.³ All potentially affected operators 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.

¹ 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”).

² The final location of Eutelsat 172B, which IntelSat understands is licensed by France, will be 172° E.L.

³ Airbus, the manager of the Eutelsat 172B LEOP mission, will handle the coordination.

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 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 46.1 N

9. State CA	10. Longitude (dd mm ss.s h) 117 5 15.1 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 30 days, commencing October 9, 2017, to use its Riverside, California Ku-band earth station, call sign E060384, to provide telemetry, tracking, and command during in-orbit testing at 176 E.L. for the Eutelsat 172B satellite. Eutelsat 172B was launched on June 1, 2017. </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
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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12. Description

Intelsat License LLC herein requests a grant of Special Temporary Authority for 30 days, commencing October 9, 2017, to use its Riverside, California Ku-band earth station, call sign E060384, to provide telemetry, tracking, and command during in-orbit testing at 176 E.L. for the Eutelsat 172B satellite. Eutelsat 172B was launched on June 1, 2017. Intelsat expects the IOT period to last approximately 30 days.