

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
Request for Further Extension of 30-day STA To Use Riverside, California Earth Station E060384 to Provide TT&C Services for
Intelsat 5 (S2704) Satellite

1. Applicant


Name:	Intelsat License LLC	Phone Number:	703-559-7848
DBA Name:		Fax Number:	703-559-8539
Street:	c/o Intelsat US LLC	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-20181217-03514

Call Sign E060384 Grant Date 12/31/2018
(or other identifier)

Term Dates
From 01/02/2019 To: 2/1/2019

Approved: *Susan H. Crandall*



GRANTED
International Bureau



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Approved: Paul E. Hoo

Applicant: Intelsat License LLC
File No: SES-STA-20181217-03514
Call Sign: E060384
Special Temporary Authority

Intelsat License LLC ("Intelsat") is granted extension of special temporary authorization for 30 days to operate its fixed earth station antenna located at geographic coordinates 33° 47' 47.3"N/117° 05' 15"W in Riverside, California to perform tracking, telemetry and command ("TT&C") for Intelsat 5 (Call Sign S2704) during its drift from 156.9° E to on-station at 137° W with center frequencies: 13999 MHz (RHCP) and 14498 MHz (H) (Earth-to-space); and 11451 MHz (H, V, and RHCP), 11452 MHz (H, V, and RHCP), and 11454 MHz (RHCP, and LHCP) (space-to-Earth) under the following conditions.:

1. Operations shall be on an unprotected, non-interference basis with respect to other authorized stations, including federal stations.
2. Any action taken or expense incurred as a result of operations pursuant to this STA is solely at Intelsat's risk.
3. Intelsat License LLC must ensure operations are in accordance with the 47 C.F.R. § 2.106 International Footnote US356: In the band 13.75-14 GHz, an earth station in the fixed-satellite service shall have a minimum antenna diameter of 4.5 m and the e.i.r.p. of any emission should be at least 68 dBW and should not exceed 85 dBW. In addition, the e.i.r.p., averaged over one second, radiated by a station in the radiolocation service shall not exceed 59 dBW. Receiving space stations in the fixed-satellite service shall not claim protection from radiolocation transmitting stations operating in accordance with the United States Table of Frequency Allocations. ITU Radio Regulation No. 5.43A does not apply.

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.

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?	
<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 CGX - Fixed Satellite Transmit/Receive Earth Station	
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/Riverside	8. Latitude (dd mm ss.s h) 33 47 47.3 N

9. State CA	10. Longitude (dd mm ss.s h) 117 5 15.0 W
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.) Intelsat License LLC herein requests an additional 30 days of Special Temporary Authority previously granted Intelsat to use its Riverside, California Ku-band earth station, call sign E060384, to continue providing telemetry, tracking, and command services for Intelsat 5 (Call Sign S2704) on-station at 137.0 W.L.	
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. Yes <input checked="" type="radio"/> No <input type="radio"/>	
14. Name of Person Signing Cynthia J. Grady	15. Title of Person Signing Senior Counsel, Intelsat US LLC
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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INTELSAT.

Envision. Connect. Transform.

December 17, 2018

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

Re: Request for Further Extension of Special Temporary Authority
Riverside, California Earth Station E060384

Dear Ms. Dortch:

IntelSat License LLC (“IntelSat”) herein requests an additional 30 days of Special Temporary Authority (“STA”)¹ previously granted IntelSat to use its Riverside, California Ku-band earth station—call sign E060384—to continue providing telemetry, tracking, and command (“TT&C”) services² for IntelSat 5 (Call Sign S2704) on-station at 137.0° W.L.³

TT&C operations will continue to be performed in the following frequencies: 14498 MHz (H) and 13999 MHz (RHCP) in the uplink; and 11451 MHz (H, V, and RHCP), 11452 MHz (H, V, and RHCP), and 11454 MHz (RHCP, and LHCP) in the downlink. On-station at 137.0° W.L., IntelSat will continue to operate in conformance with FCC rules and any relevant coordination agreements.

In further support of this request, IntelSat incorporates by reference Exhibits A-D submitted with its original STA request, which contain technical information that demonstrates that the operation of the earth station will be compatible with its electromagnetic environment and will not cause harmful interference into any lawfully operating terrestrial facility, or into Federal systems operating in the 13.75 -14.00 GHz band. To provide sufficient interference protection to U.S. Navy shipboard radiolocation operations, IntelSat will continue to operate based on the table provided below for uplink operation in band 13.75-14.00 GHz from Riverside, CA. Using the below mentioned power levels,

¹ IntelSat has filed its STA request, an FCC Form 159, a \$210.00 filing fee, and this supporting letter electronically via the International Bureau’s Filing System (“IBFS”).

² See, e.g. *Satellite Policy Branch Information; Actions Taken*, Report No. SES-02119, File No. SES-STA-20181022-03277 (Dec. 5, 2018) (Public Notice); *Satellite Policy Branch Information; Actions Taken*, Report No. SES-02102, File No. SES-STA-20180827-02495 (Oct. 3, 2018) (Public Notice).

³ The original STA provided authority for the drift and on-station operations. IntelSat 5 arrived at 137.0° W.L. on May 30, 2018. IntelSat is also utilizing the following antennas on station for IntelSat 5: KL92, E140121, and KA258.

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the earth station's signal flux density toward the shoreline will always be less than -167.0 dBW/m²/4KHz. Therefore, there should be no interference to the U.S. Navy radar systems.

<i>Arc</i>	<i>Power</i>
<i>45 to 190 W</i>	<i>76 dBW</i>
<i>45 to 185 W</i>	<i>82 dBW</i>
<i>45 to 180 W</i>	<i>86 dBW</i>
<i>45 to 175 W</i>	<i>88 dBW</i>

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.

Grant of this STA further extension request will allow Intelsat to continue safely station-keep Intelsat 5 at its new location. This, in turn, will help meet a new service demand at the 137.0° W.L. orbital location and thereby promotes the public interest.

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

Respectfully submitted,

/s/ Cynthia J. Grady

Cynthia J. Grady
Senior Counsel
Intelsat US LLC

cc: Paul Blais