Approved by OMB
3060–0678

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATIONEnter a description of this application to identify it on the main menu:
Request for Extension of Special Temporary Authority to Use a 7.3m S–band Antenna at Paumalu, Hawaii for TT&C and IOT of the OTB Satellite Mission

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		

30 days "with conditions"

GRANTED
International Bureau

File # SES-STA-20190717-00988

Call Sign N/A Grant Date 08/05/2019
(or other identifier)

Term Dates
From: 08/05/2019 To: 09/04/2019

Approved:

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 −
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. CityPaumalu	8. Latitude (dd mm ss.s h) 21 40 14.2 N

9. State HI	10. Longitude (dd mm ss.s h) 158 2 7.8 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 to Intelsat to utilize a 7.3m S-band antenna located at its Paumalu, Hawaii teleport for telemetry, tracking, and command services during launch and early orbit phase and in-orbit testing of the General Atomics Orbital Test Bed satellite.

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 ○ No

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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30 days "With conditions

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From: 08/05/2019 To: 09/04/2019

Approved:

Applicant: Intelsat LLC
File No.: SES-STA-20190717-00988
Call Sign: None

Intelsat License LLC is grant special temporary authority for 30 days beginning August 5, 2019, 2019 to operate its 7.3m earth station antenna in Paumalu, HI with the OTB non geostationary orbit satellite in the 720 km x 720 km, 24°inclined orbit on center frequencies: 2061.0 MHz, 2062.0 MHz, and 2063.0 MHz (RHCP) (Earth-to-space) and 2272.5 MHz in (space-to-Earth) to provide telemetry, tracking, and command during its launch and early orbit phase ("LEOP") and in-orbit testing ("101") phases under the following conditions.

1. Operations are limited to:

Frequency band	Emission designator	Max eirp (dBW)	Max eirp density (MHz) (dBW/4kHz)
2061.0, 2062.0, and 2063 MHz	19K2FXD 307KFXD	34	15.4
2272.5	307KFXD	n/a	n/a

2. Polarization: left and right circular

3. Intelsat may only transmit intermittently over a 30-day period.

4. Intelsat agrees to accept any level of interference into this earth station from Federal users in the 2200-2290 MHz band.

5. Intelsat shall, at all times, take all necessary measures to ensure that operation of this (these) authorized earth station(s) does not create potential exposure of humans to radiofrequency radiation in excess of the FCC exposure limits defined in 47 CFR § 1.1307(b) and 1.13 10. Physical measures must be taken to ensure compliance with limits for both occupational/controlled exposure and for general population/uncontrolled exposure, as defined in these rule sections. Compliance can be accomplished in most cases by appropriate restrictions, such as fencing. Requirements for restrictions can be determined by predictions based on calculations, modeling, or by field measurements. The FCCs OET Bulletin 65 (available on-line at ww.fcc.gov/oet/rfsafety) provides information on predicting exposure levels and on methods for ensuring compliance, including the use of warning and alerting signs and protective equipment for workers.

6. Operations of this antenna during the period after grant of SES-STA-20181010-03148 expired to the grant of this special temporary authority was authorized under 47 CFR §1.62.

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.

INTELSAT.
Envision. Connect. Transform.

July 17, 2019

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

Re: Request for Extension of Special Temporary Authority
7.3m S-band Antenna, Paumalu, Hawaii

Dear Ms. Dortch:

Intelsat License LLC ("Intelsat") herein requests an additional 30 days of Special Temporary Authority ("STA")[1] previously granted to Intelsat[2] to utilize a 7.3m S-band antenna located at its Paumalu, Hawaii teleport for telemetry, tracking, and command ("TT&C") services during launch and early orbit phase ("LEOP") and in-orbit testing ("IOT") of the General Atomics Orbital Test Bed ("OTB") satellite.[3] OTB was launched on June 25, 2019.

OTB was launched as part of the U.S. Air Force's Space Technology Program (STP-2) and carried the National Aeronautics and Space Administration's ("NASA") Deep Space Atomic Clock, the U.S. Air Force's Modular Solar Array, and other payloads. Because OTB is a low-Earth orbit ("LEO") non-geostationary orbit satellites ("NGSO"), TT&C services from the S-band antenna to the satellite will occur 1-4 times per day, ranging from 8-10 minutes in duration.[4]

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[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 Satellite Communications Services Information, Actions Taken*, Report No. SES-02159, File No. SES-STA-20181010-03148 (May 8, 2019) (Public Notice).

[3] Intelsat understands that while the OTB satellite is not yet licensed, it will be licensed by the United States and that General Atomics has discussed the proposed satellite operations with Commission staff and other interested agencies.

[4] The planned orbit for the OTB satellite is 720 km with an inclination of 24°.

Intelsat US LLC
7900 Tysons One Place, McLean, VA 22102-5972 USA www.intelsat.com T +1 703-559-6800

The OTB operations will be performed in the following frequencies: 2061.0 MHz, 2062.0 MHz, and 2063.0 MHz (RHCP) in the uplink, and 2272.5 MHz in the downlink (RHCP). The proposed operations will be coordinated with all operators of satellites that use the same frequency bands and are in the flight paths or are potentially affected by IOT operations.[5] All operators of potentially affected satellites 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 7.3m S-band antenna operations 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 incorporates by reference Exhibits A and B[6] included 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 commercial terrestrial facility and a waiver request.

Grant of this STA extension request will allow Intelsat to safely place OTB in non-geostationary orbit; TT&C the spacecraft during IOT; and provide support to U.S. Government missions aboard the OTB satellite and thereby promotes the public interest.

Please direct any questions regarding this 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

[5] ViaSat, Intelsat's customer, will handle the coordination.

[6] *See supra* n. 2.