GRANTED
International Bureau
* with conditions

File # SAT-STA-20200702-00084
Call Sign S3016 Grant Date July 23, 2020
(or other identifier)
Term Dates
From August 10, 2020 To: 30 Days
Approved: John W. Wright
Acting Chief
Satellite Policy Branch

Approved by OMB
3060-0678

Date & Time Filed: Jul 2 2020 5:16:31:766PM
File Number: SAT-STA-20200702-00084
Callsign:

FEDERAL COMMUNICATIONS COMMISSION
APPLICATION FOR SPACE STATION SPECIAL TEMPORARY AUTHORITY

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APPLICANT INFORMATION

Enter a description of this application to identify it on the main menu:
Request for Special Temporary Authority to conduct IOT of Galaxy 30 (S3016) at 84.55 E.L. and drift to 125.0 W.L.

1. Applicant

Name:	Intelsat License LLC, as debtor-in-possession	**Phone Number:**	703-559-7848
DBA Name:		**Fax Number:**	703-559-8539
Street:	7900 Tysons One Place	**E-Mail:**	susan.crandall@intelsat.com
City:	McLean	**State:**	VA
Country:	USA	**Zipcode:**	22101 -5972
Attention:	Susan H. Crandall		

ATTACHMENT TO GRANT

Intelsat License LLC
IBFS File No. SAT-STA-20200702-00084

IBFS File No(s):	SAT-STA-20200702-00084	**GRANTED – With Conditions** **International Bureau Satellite Division**
Licensee/Grantee:	Intelsat License LLC, as debtor-in-possession	
Call Sign:	S3016	
Satellite Name:	Galaxy 30	
Orbital Location: (required station-keeping tolerance)	84.55° E.L. (+/-0.05 degrees east/west)	
Administration:	United States of America	
Nature of Service:	Fixed-Satellite Service (FSS)	
Scope of Grant:	Special temporary authority for a period of 30 days to perform in-orbit testing (IOT) of Galaxy 30 at the 84.55° E.L. orbital location and to perform Telemetry, Tracking, and Command (TT&C) operations necessary to maintain Galaxy 30 at 84.55° E.L. and to effect drift of Galaxy 30 to its authorized orbital location at 125.0° W.L. upon completion of IOT.	
Service Area(s):	Not Applicable	
Frequencies:	Payload testing frequencies: 3700–4200 MHz (space-to-Earth) 5925-6425 MHz (Earth-to-space) 10.7-11.7 GHz (space-to-Earth) 17.8-18.8 GHz (space-to-Earth) 12.75-13.25 GHz (Earth-to-space) 13.75-14.5 GHz (Earth-to-space) 19.2-20.2 GHz (space-to-Earth) 27.6-28.6 GHz (Earth-to-space) 29.0-30.0 GHz (Earth-to-space) TT&C frequencies: 4197.5 MHz and 4198.5 MHz (space-to-Earth); and 6421.75 MHz, 6424.25 MHz (Earth-to-space).	

Operations under this grant must comport with the legal and technical specifications set forth by the applicant or petitioner and with Federal Communication Commission's rules not waived herein. This grant is also subject to the following conditions:

1. All operations under this grant of special temporary authority must be on an unprotected and non-harmful interference basis, *i.e.,* Intelsat must not cause harmful interference to, and must not claim protection from interference caused to it by, any other lawfully operating station.

2. In the event of any harmful interference under this grant of special temporary authority, Intelsat must cease operations immediately upon notification of such interference and must inform the Commission, in writing, immediately of such an event.

3. Intelsat must coordinate the operations of Galaxy 30 with existing geostationary space stations to ensure that no unacceptable interference results from its operations at the 84.55° E.L. orbital location or during drift from the 84.55° E.L. orbital location to the 125.0° W.L. orbital location.

4. Galaxy 30's operations at the 84.55° E.L. orbital location must be limited to IOT and must not include the provision of commercial services.

5. Intelsat must operate only the TT&C frequencies on Galaxy 30 during the space station's drift from the 84.55° E.L. orbital location to the 125.0° W.L. orbital location.

6. During in-orbit testing, Intelsat must maintain the Galaxy 30 space station within an east-west

longitudinal station-keeping tolerance of ±0.05 degrees of the 84.55° E.L. orbital location.

7. IOT operations for Galaxy 30 must comply with the conditions imposed in IBFS File Nos. SAT-LOA-20170524-00079; SAT-AMD-20180410-00026.[1]

Licensee/grantee is afforded thirty (30) days from the date of release of this action to decline the grant as conditioned. Failure to respond within this period will constitute formal acceptance of the grant as conditioned.

This action is taken pursuant to Section 0.261 of the Commission's rules on delegated authority, 47 C.F.R. § 0.261, and is effective upon release.

Station licenses are subject to the conditions specified in Section 309(h) of the Communications Act of 1934, as amended, 47 U.S.C. § 309(h).

Action Date:	July 23, 2020	
Term Dates	**From:** August 10, 2020	**To:** period of 30 days

Approved:

John W. Whaley
Acting Chief, Satellite Policy Branch

[1] *See* Authority to Construct, Deploy, and Operate a C-, Ku-, and Ka-band Geostationary Orbit (GSO) Space Station, including Operations in Wide Area Augmentation System (WAAS) Frequencies., IBFS File Nos. LOA-20170524-00079; SAT-AMD-20180410-00026 (Grant stamp, November 14, 2018).

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?
◉ 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 CRY − Space Station (Geostationary)

5. Type Request

○ Change Station Location ○ Extend Expiration Date ◉ Other

6. Temporary Orbit Location	7. Requested Extended Expiration Date
84.55 E.L.	

8. 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 herein requests a grant of Special Temporary Authority for 30 days, commencing August 10, 2020, to conduct in-orbit testing of the Galaxy 30 satellite at 84.55 E.L. and to drift the satellite to its permanent location of 125.0 W.L.

9. 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

10. Name of Person Signing	11. Title of Person Signing
Cynthia J. Grady	Senior Counsel, Intelsat US LLC

12. Please supply any need attachments.

Attachment 1: STA Request	Attachment 2:	Attachment 3:

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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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.

INTELSAT

July 2, 2020

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

Re: **Request for Special Temporary Authority to Conduct In-Orbit Testing of Galaxy 30 and Drift the Satellite to 125.0° W.L.**; Call Sign S3016

Dear Ms. Dortch:

Intelsat License LLC, as debtor in possession ("Intelsat"), herein requests a grant of Special Temporary Authority ("STA")[1] for 30 days, commencing August 10, 2020, to conduct in-orbit testing ("IOT") of the Galaxy 30 satellite (Call Sign S3016) at 84.55° E.L. and to drift the satellite to its permanent location of 125.0° W.L.[2] Galaxy 30 is scheduled to be launched July 28, 2020. The IOT and drift are expected to last approximately 172 days.[3]

Galaxy 30's payload testing will be performed in the following frequency bands:

- 3700-4200 MHz, 10700-11700 MHz, 17800-18800 MHz, 19200-20200 MHz (space-to-Earth); and
- 5925-6425 MHz, 12750-13250 MHz, 13750-14500 MHz, 27600-28600 MHz, 29000-30000 MHz (Earth-to-space).

Telemetry, Tracking, and Command ("TT&C") services for Galaxy 30 will be performed at the following center frequencies and in the following frequency bands:

- 6421.75 MHz and 6424.25 MHz (space-to-Earth); and
- 4197.5 MHz and 4198.5 MHz (Earth-to-space).

In support of its request, Intelsat submits the following information.

During Galaxy 30's IOT at 84.55° E.L., Intelsat will operate in the above referenced C-, Ku-, and Ka-bands. Intelsat has completed coordination with the operational satellites within +/-6 degrees

[1] Intelsat has filed this STA request, an FCC Form 159, and a $980.00 filing fee electronically via the International Bureau's Filing System.

[2] *See Policy Branch Information; Actions Taken*, Report No. SAT-01359, SAT-AMD-20180410-00026 (Nov. 16, 2018) (Public Notice) (granted in part, denied in part). During the drift from 84.55° E.L. to 125.0° W.L., only the satellite's TT&C frequencies will be utilized.

[3] Intelsat will also seek 180 days of STA to accommodate the requested operations herein.

of the IOT location. In the unlikely event that harmful interference occurs, Intelsat will take all necessary steps to eliminate the interference.

Intelsat has assessed and limited the probability of the space station becoming a source of debris as a result of collision with large debris or other operational space stations during IOT at 84.55° E.L. Galaxy 30 will not be located at the same orbital location as another satellite or at an orbital location that has an overlapping station-keeping volume with another satellite. Further, Intelsat is not aware of any other Federal Communications Commission ("FCC" or "Commission") licensed system, or any other system applied for and under consideration by the FCC, having an overlapping station-keeping volume with Galaxy 30 at 84.55° E.L. In addition, Intelsat is not aware of any system with an overlapping station-keeping volume with Galaxy 30 at 84.55° E.L. that is the subject of an International Telecommunication Union filing and that is either in orbit or progressing towards launch.

The IOT of the Galaxy 30 satellite's C-, Ku-, and Ka-band payloads at 84.55° E.L. is a critical step in ensuring that the satellite will be fully operational at 125.0° W.L. This, in turn, will provide additional capacity to customers at the 125.0° W.L. location, and thereby promotes the public interest.

For the reasons set forth herein, Intelsat respectfully requests that the Commission grant this request.

Sincerely,

/s/ Cynthia J. Grady
Cynthia J. Grady
Senior Counsel
Intelsat US LLC

cc: Jay Whaley
Jennifer Balatan