

S2253 SAT-STA-20160210-00017 IB2016000430
Intelsat License LLC
Galaxy 11



File # SAT-STA-20160210-00017
Call Sign S2253 Grant Date 05/06/16
(or other identifier)
Term Dates period of
From 05/06/16 To: 180 days
Approved: *Stephen J Duall*

Approved by OMB
3060-0678

Date & Time Filed: Feb 10 2016 5:11:03:370PM
File Number: SAT-STA-20160210-00017
Callsign:

Stephen J Duall
Chief, Satellite Policy Branch

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:
180-Day STA to Operate Galaxy 11 at 60.1 E.L. (Call Sign S2253)

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 | | |

Attachment to Grant
IBFS File No. SAT-STA-20160210-00017
Call Sign S2253

The application of Intelsat License LLC (Intelsat) for special temporary authority, IBFS File No. SAT-STA-20160210-00017, is GRANTED.¹ Specifically, Intelsat is authorized, for a period of 180 days, commencing on May 1, 2016, to provide fixed-satellite service via the Galaxy 11 space station at the 60.1° E.L. orbital location using the 10.95-11.2 GHz (space-to-Earth), 11.7-12.2 GHz (space-to-Earth), and 13.75-14.5 GHz (Earth-to-space) frequency bands. Intelsat is also authorized to conduct Telemetry, Tracking, and Command (TT&C) operations with the Galaxy 11 space station (Call Sign S2253) necessary to maintain Galaxy 11 at the 60.1° E.L. orbital position using the following center frequencies: 14000.5 MHz, 14498.5 MHz, 11701 MHz, and 11702 MHz. Operations under this authorization must be in accordance with the technical specifications set forth in Intelsat's application, the current authorization for Galaxy 11, IBFS File No. SAT-MOD-20121018-00184, and Federal Communication Commission rules not waived herein, and are subject to the following conditions:

1. All operations under this authorization must be on an unprotected and non-harmful interference basis, i.e., the Galaxy 11 space station shall not cause harmful interference to, and shall not claim protection from interference caused to it by, any other lawfully operating station. In the event of any harmful interference, Intelsat shall cease operations immediately upon notification of such interference, and shall inform the Commission, in writing, immediately of such an event.
2. In connection with the provision of service in any particular country, Intelsat is obliged to comply with the applicable laws, regulations, rules, and licensing procedures of that country.
3. While at the 60.1° E.L. orbital location, Intelsat must maintain the Galaxy 11 spacecraft with an east/west longitudinal station-keeping tolerance of +/- 0.05 degrees.
4. The United States remains the licensing administration of the Galaxy 11 spacecraft and its communications payloads for purposes of International Telecommunication Union (ITU) Radio Regulation 18.1 and is the administration responsible for the operations of Galaxy 11. The U.S. Administration will not object to the use of Galaxy 11 by the United Kingdom Administration for claiming bringing into use or continuing the use of orbital assignments at 60.1° E.L. This grant does not in any way express a view concerning, or agreement as to, the validity or lack of validity of any ITU filing at or within the vicinity of the 60.1° E.L. orbital location.
5. Intelsat's use of the 10.95-11.2 GHz frequency band is subject to Footnote US211 to the Table of Frequency Allocations, 47 C.F.R. § 2.106, US211, which urges applicants for airborne or space station assignments to take all practicable steps to protect radio astronomy observations in the adjacent bands from harmful interference, consistent with footnote US74.
6. Intelsat's use of the 10.95-11.2 GHz frequency band is limited to international operations in accordance with footnote NG52 to the United States Table of Frequency Allocations, 47 C.F.R. § 2.106, NG52.
7. In the 13.75-14.0 GHz band (Earth-to-space), 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.
8. Pursuant to footnote US337 of the United States Table of Frequency Allocations, 47 C.F.R. § 2.106, US337, any earth station in the United States and its possessions communicating with the Galaxy 11 space station in the 13.75-14.0 GHz band (Earth-to-space) is required to coordinate through National Telecommunications and Information Administration's (NTIA's) Interdepartment Radio Advisory Committee's (IRAC's) Frequency Assignment Subcommittee (FAS) to minimize interference

¹ The application was placed on Public Notice as accepted for filing on April 1, 2016. *See Policy Branch Information, Satellite Space Applications Accepted for Filing*, Public Notice, Report No. SAT-01147 (IBFS File No. SAT-STA-20160210-00017). No comments were filed.

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to the National Aeronautics and Space Administration Tracking and Data Relay Satellite System, including manned space flight.

9. Operations of any earth station in the United States and its possessions communicating with the Galaxy 11 space station in the 13.75-14.0 GHz band (Earth-to-space) shall comply with footnote US356 to United States Table of Frequency Allocations, 47 C.F.R. § 2.106, US356, which specifies that 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 equivalent isotropically radiated powers (e.i.r.p.) of any emission should be at least 68 dBW and should not exceed 85 dBW. Operations of any earth station located outside the United States and its possessions communicating with the Galaxy 11 space station in the 13.75-14.0 GHz band (Earth-to-space) shall be consistent with footnote 5.502 to the ITU Radio Regulations, which allows a minimum antenna diameter of 1.2 meters for earth stations of a geostationary satellite orbit network and specifies mandatory power limits.

10. Operations of any earth station in the United States and its possessions communicating with the Galaxy 11 space station in the 13.77-13.78 GHz band (Earth-to-space) shall comply with footnote US357 to United States Table of Frequency Allocations, 47 C.F.R. § 2.106, US357, which specifies that a required maximum EIRP density of emissions not exceed 71 dBW in any 6 MHz band for communications with a space station in geostationary-satellite orbit. Operations of any earth station located outside the United States and its possessions communicating with the Galaxy 11 space station in the 13.77-13.78 GHz band (Earth-to-space) shall comply with footnote 5.503 to the ITU Radio Regulations, which specifies a required maximum EIRP density of emissions (limit is dependent on antenna diameter) for communications with a space station in geostationary-satellite orbit.

11. Pursuant to footnote US342 of the United States Table of Frequency Allocations, 47 C.F.R. § 2.106, services operating in the 14.47-14.50 GHz band shall take all practicable steps to protect the radio astronomy service from harmful interference.

12. Any action taken or expense incurred as a result of operations pursuant to this special temporary authority is solely at Intelsat's own risk.

13. Intelsat is afforded thirty days from the date of release of this grant and authorization to decline this authorization as conditioned. Failure to respond within this period will constitute formal acceptance of the authorization as conditioned.

14. 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. Petitions for reconsideration under Section 1.106 or applications for review under Section 1.115 of the Commission's rules, 47 C.F.R. §§ 1.106, 1.115, may be filed within 30 days of the date of the public notice indicating that this action was taken.



*with conditions

File # SAT-STA-20160210-00017

Call Sign S2253 Grant Date 05/06/16

(or other identifier)

Term Dates period of

From 05/06/16 To: 180 days

Approved:

Stephen J. Dull
Stephen J. Dull
Chief, Satellite Policy Branch

2. Contact

| | | | |
|-------------------|-------------------|----------------------|-----------------------|
| Name: | Jennifer Hindin | Phone Number: | 202-719-4975 |
| Company: | Wiley Rein LLP | Fax Number: | 202-719-7049 |
| Street: | 1776 K Street, NW | E-Mail: | jhindin@wileyrein.com |
| City: | Washington | State: | DC |
| Country: | USA | Zipcode: | 20006 - |
| 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
60.1 E.L.

7. Requested Extended Expiration Date

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 License LLC herein requests grant of Special Temporary Authority ('STA') for 180 days -- commencing May 1, 2016 -- to operate Galaxy 11 (Call Sign S2253) temporarily at 60.1 E.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
Cynthia J. Grady

11. Title of Person Signing
Regulatory Counsel, Intelsat Corporation

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).

FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT

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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

Envision. Connect. Transform.

February 10, 2016

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

Re: Request for Special Temporary Authority to Operate Galaxy 11 at 60.1° E.L.; Call Sign: S2253

Dear Ms. Dortch:

Intelsat License LLC (“Intelsat”) herein requests grant of Special Temporary Authority (“STA”)¹ for 180 days—commencing May 1, 2016—to operate Galaxy 11 (Call Sign S2253) temporarily at 60.1° E.L. Specifically, Intelsat seeks STA to operate the Galaxy 11 satellite in the TT&C frequencies 14000.5 MHz, 14498.5 MHz, 11701 MHz, and 11702 MHz, as well as the communications frequencies 13750 – 14500 MHz, 10950 – 11200 MHz, and 11700 – 12200 MHz. Intelsat is relocating the Galaxy 11 satellite to meet a temporary requirement.

The Galaxy 11 satellite is currently drifting to 60.1° E.L. under STA² and is licensed permanently to operate at 55.6° W.L.³ The satellite should arrive on-station in early May 2016. Once on-station at 60.1° E.L., Intelsat will operate the communications payload in conformance with its coordination agreements concerning the nominal 60.0° E.L. location.

Further, Intelsat has assessed and limited the probability of the space station becoming a source of debris as a result of collisions with large debris or other operational space stations. Galaxy 11 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 FCC licensed system, or any other system applied for and under consideration by the FCC, having an overlapping station-keeping volume with Galaxy 11 at 60.1° E.L. Finally, Intelsat is not aware of any system with an overlapping station-keeping volume with Galaxy 11 that is the subject of an ITU filing and that is either in orbit or progressing towards launch.

Grant of this STA request is in the public interest because it will allow Intelsat to meet a temporary requirement at 60.1° E.L. For the reasons set forth herein, Intelsat respectfully requests that the

¹ Intelsat has filed this STA request, an FCC Form 159, and a \$930.00 filing fee electronically via the International Bureau's Filing System.

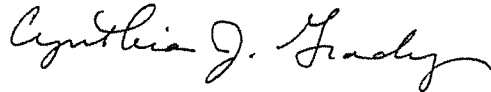
² See *Policy Branch Information; Actions Taken*, Report No. SAT-01103, File No. SAT-STA-20150505-00033 (Aug. 21, 2015) (Public Notice).

³ See *Policy Branch Information; Actions Taken*, Report No. SAT-01050, File No. SAT-MOD-20121018-00184 (Oct. 31, 2014) (Public Notice).

Ms. Marlene H. Dortch
February 10, 2016
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Commission grant this STA request. Please direct any questions regarding this request to the undersigned at (703) 559-6949.

Sincerely,

A handwritten signature in cursive script that reads "Cynthia J. Grady".

Cynthia J. Grady
Regulatory Counsel
Intelsat Corporation

cc: Stephen Duall
Jay Whaley
Cindy Spiers