

File # SAT-MOD-20191126-00141

Call Sign S2160 Grant Date April 24, 2020  
(or other identifier)

Approved by OMB  
3060-0678

Term Dates  
From July 29, 2020 To: July 29, 2025

Approved: [Signature]  
John W. Brander  
Acting Chief  
Satellite Policy Branch



Date & Time Filed: Nov 26 2019 11:47:09:680AM  
File Number: SAT-MOD-20191126-00141

FCC APPLICATION FOR SPACE AND EARTH STATION:MOD OR AMD - MAIN FORM - MAIN FORM  
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FCC 312 MAIN FORM FOR OFFICIAL USE ONLY


APPLICANT INFORMATION

Enter a description of this application to identify it on the main menu:  
Application to Modify Authorization for Galaxy 28 (S2160)

1-8. Legal Name of Applicant

|                   |  |                      |                             |
|-------------------|--|----------------------|-----------------------------|
| <b>Name:</b>      | Intelsat License LLC                         | <b>Phone Number:</b> | 703-559-7848                |
| <b>DBA Name:</b>  |  | <b>Fax Number:</b>   | 703-559-8539                |
| <b>Street:</b>    | c/o Intelsat US LLC<br>7900 Tysons One Place | <b>E-Mail:</b>       | susan.crandall@intelsat.com |
| <b>City:</b>      | McLean                                       | <b>State:</b>        | VA                          |
| <b>Country:</b>   | USA  | <b>Zipcode:</b>      | 22102 -5972                 |
| <b>Attention:</b> | Susan H Crandall                             |                      |                             |

**ATTACHMENT TO GRANT**  
**Intelsat License LLC**  
**IBFS File No. SAT-MOD-20191126-00141**

|  |  |   |
|--|--|---|
| <b>IBFS File No(s):</b>  | SAT-MOD-20191126-00141   | <p><b>GRANTED –<br/>With Conditions</b></p>  <p><b>International Bureau<br/>Satellite Division</b></p> |
| <b>Licensee/Grantee:</b>   | Intelsat License LLC   |   |
| <b>Call Sign:</b>  | S2160  |   |
| <b>Satellite Name:</b>   | Galaxy 28 <sup>1</sup>   |   |
| <b>Orbital Location:<br/>(required station-keeping tolerance)</b>  | 89.0° W.L.<br>(± 0.05 degrees east/west)   |   |
| <b>Administration:</b>   | United States of America   |   |
| <b>Nature of Service:</b>  | Fixed-Satellite Service (FSS)  |   |
| <b>Scope of Grant:</b>   | Modify the authorization for Galaxy 28, a C- and Ku-band space station operating at 89° W.L., in order to extend its license term through July 2025. <sup>2</sup>  |   |
| <b>Previous Grant(s):</b>  | <p>Intelsat North America LLC Request for a Six-Month Extension of the Launch Milestone Date and Request for Waiver for the Intelsat Americas-8 satellite, IBFS File Nos. SAT-MOD-20050203-00019 and SAT-MOD-20050422-00089 (granted June 17, 2005)</p> <p>Authority to Construct, Launch, and Operate Space Stations in the Domestic Fixed Satellite Service, IBFS File No. SAT-AMD-19960429-00061 et. al. (formerly File No. 101-SAT-AMEND-96 et. al.). <i>Loral Space and Communications, Ltd.</i>, Memorandum Opinion and Order, 11 FCC Rcd 20441 (granted Nov. 20, 1996) (DA 96-1941)</p> <p>Assignment of Orbital Locations to Space Stations in the Domestic Fixed Satellite Service, Order, 11 FCC Rcd 20441, DA 96-713, IBFS File No. SAT-LOA-19950215-00025 (formerly File No. 73-SAT-P/LA-95) (granted May 7, 1996)</p> |   |
| <b>Service Area(s):</b>  | See Schedule S Tech Report at 5-8.   |   |
| <b>Frequencies:</b>  | <p>3700-4200 MHz (space-to-Earth)<br/> 5925-6425 MHz (Earth-to-space)<br/> 11.7-12.2 GHz (space-to-Earth)<br/> 14.0-14.5 GHz (Earth-to-space)</p> <p>TT&amp;C center frequencies:<br/> 4195.0, 4199.5 MHz (space-to-Earth)<br/> 5926.5 MHz, 6423.5 MHz (Earth-to-space)</p>  |   |
| <p><b>Unless otherwise specified herein, 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:</b></p> <ol style="list-style-type: none"> <li>1. Intelsat must operate Galaxy 28 at the 89.0° W.L. orbital location in accordance with any existing or future coordination agreements for this location.</li> <li>2. In connection with the provision of service in any particular country, Intelsat is obliged to comply with</li> </ol> |  |   |

<sup>1</sup> This satellite was renamed from Intelsat Americas 8 to Galaxy 28 on Feb. 1, 2007. See Letter from Susan H. Crandall, Intelsat Corporation, to Marlene H. Dortch, Secretary, FCC (dated Jan. 8, 2007).

<sup>2</sup> Intelsat originally requested that the license term for Galaxy 28 be extended through July 2028. Intelsat filed a supplement to this application changing the requested end of license term to July 29, 2025. See Letter from Cynthia J. Grady Senior Counsel, Intelsat US LLC, to Marlene H. Dortch, Secretary, FCC (dated April 6, 2020).

**ATTACHMENT TO GRANT**  
**Intelsat License LLC**  
**IBFS File No. SAT-MOD-20191126-00141**

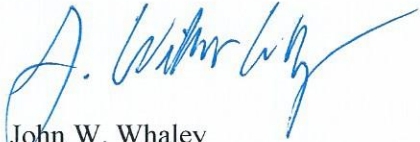
the applicable laws, regulations, rules, and licensing procedures of that country.

3. While at the 89.0° W.L. orbital location, Intelsat must maintain the Galaxy 28 spacecraft with an east/west longitudinal station-keeping tolerance of +/- 0.05 degrees.
4. The operations of Galaxy 28 and associated earth stations must comport with the applicable uplink and downlink limits in 47 CFR § 25.140(a)(3) of the Commission's rules, unless Intelsat coordinates any non-conforming operations with the operations of U.S.-licensed geostationary orbit space stations within 6 degrees of the 89.0° W.L. orbital location. Intelsat must also comport with the maximum power limits indicated in existing or future coordination agreements at 89.0° W.L. Non-conforming operation must also be coordinated with respect to those operations of non-U.S.-licensed space stations within 6 degrees of 89.0° W.L. involving approved communications with U.S.-licensed earth stations.
5. The license term for the Galaxy 28 space station is extended from July 29, 2020<sup>3</sup> through July 29, 2025.

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 CFR § 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).

|                     |  |                          |
|---------------------|--|--------------------------|
| <b>Action Date:</b> | April 24, 2020   |                          |
| <b>Term Dates</b>   | <b>From:</b> July 29, 2020   | <b>To:</b> July 29, 2025 |
| <b>Approved:</b>    | <br>John W. Whaley<br>Acting Chief, Satellite Policy Branch |                          |

<sup>3</sup> See Letter from Susan H. Crandall, Associate General Counsel, Intelsat Global Service Corporation, to Marlene H. Dortch, Secretary, FCC (dated Aug. 9, 2005) (stating that Galaxy 28 commenced operations on July 29, 2005).

9-16. Name of Contact Representative

|                   |                    |                      |                       |
|-------------------|--------------------|----------------------|-----------------------|
| <b>Name:</b>      | Jennifer D. Hindin | <b>Phone Number:</b> | 202-719-4975          |
| <b>Company:</b>   | Wiley Rein LLP     | <b>Fax Number:</b>   | 202-719-7049          |
| <b>Street:</b>    | 1776 K St. NW      | <b>E-Mail:</b>       | jhindin@wileyrein.com |
| <b>City:</b>      | Washington         | <b>State:</b>        | DC                    |
| <b>Country:</b>   | USA                | <b>Zipcode:</b>      | 20006-                |
| <b>Attention:</b> | Jennifer D. Hindin | <b>Relationship:</b> | Legal Counsel         |

CLASSIFICATION OF FILING

17. Choose the button next to the classification that applies to this filing for both questions a. and b. Choose only one for 17a and only one for 17b.

- a1. Earth Station
- a2. Space Station

- (N/A) b1. Application for License of New Station
- (N/A) b2. Application for Registration of New Domestic Receive-Only Station
- b3. Amendment to a Pending Application
- b4. Modification of License or Registration
- b5. Assignment of License or Registration
- b6. Transfer of Control of License or Registration
- b7. Notification of Minor Modification
- (N/A) b8. Application for License of New Receive-Only Station Using Non-U.S. Licensed Satellite
- (N/A) b9. Letter of Intent to Use Non-U.S. Licensed Satellite to Provide Service in the United States
- (N/A) b10. Other (Please specify)
- (N/A) b11. Application for Earth Station to Access a Non-U.S. satellite Not Currently Authorized to Provide the Proposed Service in the Proposed Frequencies in the United States
- (N/A) b12. Application for Database Entry
- b13. Amendment to a Pending Database Entry Application
- b14. Modification of Database Entry

|   |   |
|---|---|
| <p>17c. Is a fee submitted with this application?<br/> <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).<br/> <input type="radio"/> Governmental Entity   <input type="radio"/> Noncommercial educational licensee<br/> <input type="radio"/> Other (please explain):</p> | <p>17d.<br/>         Fee Classification   BFY – Space Station Modification (Geostationary)</p>  |
| <p>18. If this filing is in reference to an existing station, enter:<br/>         (a) Call sign of station:<br/>             E2160</p>  | <p>19. If this filing is an amendment to a pending application enter both fields, if this filing is a modification please enter only the file number:<br/>         (a) Date pending application was filed:<br/>             (b) File number:<br/>                     SATMOD2005042200089</p> |

TYPE OF SERVICE

20. NATURE OF SERVICE: This filing is for an authorization to provide or use the following type(s) of service(s): Select all that apply:

- a. Fixed Satellite
- b. Mobile Satellite
- c. Radiodetermination Satellite
- d. Earth Exploration Satellite
- e. Direct to Home Fixed Satellite
- f. Digital Audio Radio Service
- g. Other (please specify)

21. STATUS: Choose the button next to the applicable status. Choose only one.

- Common Carrier
- Non-Common Carrier

22. If earth station applicant, check all that apply.

- Using U.S. licensed satellites
- Using Non-U.S. licensed satellites

23. If applicant is providing INTERNATIONAL COMMON CARRIER service, see instructions regarding Sec. 214 filings. Choose one. Are these facilities:

- Connected to a Public Switched Network
- Not connected to a Public Switched Network

24. FREQUENCY BAND(S): Place an 'X' in the box(es) next to all applicable frequency band(s).

- a. C-Band (4/6 GHz)
- b. Ku-Band (12/14 GHz)
- c. Other (Please specify upper and lower frequencies in MHz.)

Frequency Lower:      Frequency Upper: (Please specify additional frequencies in an attachment)

**TYPE OF STATION**

25. CLASS OF STATION: Choose the button next to the class of station that applies. Choose only one.

- a. Fixed Earth Station
- b. Temporary-Fixed Earth Station
- c. 12/14 GHz VSAT Network
- d. Mobile Earth Station
- e. Geostationary Space Station
- f. Non-Geostationary Space Station
- g. Other (please specify)

26. TYPE OF EARTH STATION FACILITY:

- Transmit/Receive
- Transmit-Only
- Receive-Only
- N/A

"For Space Station applications, select N/A."

PURPOSE OF MODIFICATION

27. The purpose of this proposed modification is to: (Place an 'X' in the box(es) next to all that apply.)

- a --- authorization to add new emission designator and related service
- b --- authorization to change emission designator and related service
- c --- authorization to increase EIRP and EIRP density
- d --- authorization to replace antenna
- e --- authorization to add antenna
- f --- authorization to relocate fixed station
- g --- authorization to change frequency(ies)
- h --- authorization to add frequency
- i --- authorization to add Points of Communication (satellites & countries)
- j --- authorization to change Points of Communication (satellites & countries)
- k --- authorization for facilities for which environmental assessment and radiation hazard reporting is required
- l --- authorization to change orbit location
- m --- authorization to perform fleet management
- n --- authorization to extend milestones
- o --- Other (Please specify)



ENVIRONMENTAL POLICY

28. Would a Commission grant of any proposal in this application or amendment have a significant environmental impact as defined by 47 CFR 1.1307? IF YES, submit the statement as required by Sections 1.1308 and 1.1311 of the Commission's rules, 47 C.F.R. 1.1308 and 1.1311, as an exhibit to this application. A Radiation Hazard Study must accompany all applications for new transmitting facilities, major modifications, or major amendments.

Yes  No

ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aeronautical en route or aeronautical fixed radio station services are not required to respond to Items 30-34.

29. Is the applicant a foreign government or the representative of any foreign government?

Yes  No

30. Is the applicant an alien or the representative of an alien?

Yes  No  N/A

31. Is the applicant a corporation organized under the laws of any foreign government?

Yes  No  N/A

32. Is the applicant a corporation of which more than one-fifth of the capital stock is owned or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?

Yes  No  N/A

|   |  |
|---|--|
| <p>33. Is the applicant a corporation directly or indirectly controlled by any other corporation of which more than one-fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?</p> | <p> <input checked="" type="radio"/> Yes    <input type="radio"/> No    <input type="radio"/> N/A </p> |
| <p>34. If any answer to questions 29, 30, 31, 32 and/or 33 is Yes, attach as an exhibit an identification of the aliens or foreign entities, their nationality, their relationship to the applicant, and the percentage of stock they own or vote.</p>  |  |

**BASIC QUALIFICATIONS**

|   |   |
|---|---|
| <p>35. Does the Applicant request any waivers or exemptions from any of the Commission's Rules? If Yes, attach as an exhibit, copies of the requests for waivers or exceptions with supporting documents.</p>   | <p> <input type="radio"/> Yes    <input checked="" type="radio"/> No </p> |
| <p>36. Has the applicant or any party to this application or amendment had any FCC station authorization or license revoked or had any application for an initial, modification or renewal of FCC station authorization, license, or construction permit denied by the Commission? If Yes, attach as an exhibit, an explanation of circumstances.</p> | <p> <input type="radio"/> Yes    <input checked="" type="radio"/> No </p> |

|   |  |
|---|--|
| <p>37. Has the applicant, or any party to this application or amendment, or any party directly or indirectly controlling the applicant ever been convicted of a felony by any state or federal court? If Yes, attach as an exhibit, an explanation of circumstances.</p>  | <p style="text-align: right;"> <input type="radio"/> Yes      <input checked="" type="radio"/> No </p> |
| <p>38. Has any court finally adjudged the applicant, or any person directly or indirectly controlling the applicant, guilty of unlawfully monopolizing or attempting unlawfully to monopolize radio communication, directly or indirectly, through control of manufacture or sale of radio apparatus, exclusive traffic arrangement or any other means or unfair methods of competition? If Yes, attach as an exhibit, an explanation of circumstances</p>  | <p style="text-align: right;"> <input type="radio"/> Yes      <input checked="" type="radio"/> No </p> |
| <p>39. Is the applicant, or any person directly or indirectly controlling the applicant, currently a party in any pending matter referred to in the preceding two items? If yes, attach as an exhibit, an explanation of the circumstances.</p>   | <p style="text-align: right;"> <input type="radio"/> Yes      <input checked="" type="radio"/> No </p> |
| <p>40. If the applicant is a corporation and is applying for a space station license, attach as an exhibit the names, address, and citizenship of those stockholders owning a record and/or voting 10 percent or more of the Filer's voting stock and the percentages so held. In the case of fiduciary control, indicate the beneficiary(ies) or class of beneficiaries. Also list the names and addresses of the officers and directors of the Filer.</p> |  |

|   |   |
|---|---|
| <p>41. 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.</p>  | <p style="text-align: right;">Yes <input checked="" type="radio"/> No <input type="radio"/></p> |
| <p>42a. Does the applicant intend to use a non-U.S. licensed satellite to provide service in the United States? If Yes, answer 42b and attach an exhibit providing the information specified in 47 C.F.R. 25.137, as appropriate. If No, proceed to question 43.</p>  | <p style="text-align: right;">Yes <input type="radio"/> No <input checked="" type="radio"/></p> |
| <p>42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued, what administration has coordinated or is in the process of coordinating the space station?</p>   |   |
| <p>43. Description. (Summarize the nature of the application and the services to be provided). (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)</p> <div style="border: 1px solid black; padding: 5px;"> <p>Intelsat License LLC, pursuant to Section 25.117 of the Federal Communications Commission's rules, hereby seeks to modify the authorization for Galaxy 28 (Call Sign S2160), a C- and Ku-band satellite operating at 89.0 W.L. Specifically, Intelsat seeks to extend the license term and previously granted waiver for the Galaxy 28 satellite through</p> </div> <p>Narrative</p> |   |

43a. Geographic Service Rule Certification

A

By selecting A, the undersigned certifies that the applicant is not subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25.

B

By selecting B, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will comply with such requirements.

C

By selecting C, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will not comply with such requirements because it is not feasible as a technical matter to do so, or that, while technically feasible, such services would require so many compromises in satellite design and operation as to make it economically unreasonable. A narrative description and technical analysis demonstrating this claim are attached.

CERTIFICATION

The Applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. The applicant certifies that grant of this application would not cause the applicant to be in violation of the spectrum aggregation limit in 47 CFR Part 20. All statements made in exhibits are a material part hereof and are incorporated herein as if set out in full in this application. The undersigned, individually and for the applicant, hereby certifies that all statements made in this application and in all attached exhibits are true, complete and correct to the best of his or her knowledge and belief, and are made in good faith.

44. Applicant is a (an): (Choose the button next to applicable response.)

- Individual
- Unincorporated Association
- Partnership
- Corporation
- Governmental Entity
- Other (please specify)

45. Name of Person Signing  
Cynthia J. Grady

---

46. 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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**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.**

**43. Description. (Summarize the nature of the application and the services to be provided).**

Intelsat License LLC, pursuant to Section 25.117 of the Federal Communications Commission's rules, hereby seeks to modify the authorization for Galaxy 28 (Call Sign S2160), a C- and Ku-band satellite operating at 89.0 W.L. Specifically, Intelsat seeks to extend the license term and previously granted waiver for the Galaxy 28 satellite through July 2028.