

**** GRANTED IN PART, DENIED IN PART ****

S3016 SAT-LOA-20170524-00079 IB2017001401
Intelsat License LLC
Galaxy 14R



File # SAT-LOA-20170524-00079

see also
SAT-AMD-20180410-00026

Call Sign S3016 Grant Date 11/14/18

(or other identifier)

From see conditions Term Dates see conditions
To: conditions

Approved by OMB
3060-0678

Approved: Stephen J Duall

Stephen J Duall
Chief, Satellite Policy Branch

* with conditions

Date & Time Filed: May 24 2017 5:42:53:173PM
File Number: SAT-LOA-20170524-00079
Callsign/Satellite ID: S3016

APPLICATION FOR SATELLITE SPACE STATION AUTHORIZATIONS FCC 312 MAIN FORM FOR OFFICIAL USE ONLY	FCC Use Only
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APPLICANT INFORMATION

Enter a description of this application to identify it on the main menu:


Application for Authority to Launch and Operate Galaxy 14R, a Replacement Satellite With New Frequencies, at 125.0 W.L.

1-8. Legal Name of 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

Intelsat License LLC

IBFS File Nos. SAT-LOA-20170524-00079 and SAT-AMD-20180410-00026

IBFS File No(s):	SAT-LOA-20170524-00079, SAT-AMD-20180410-00026	<p align="center">GRANTED IN PART – DENIED IN PART With Conditions</p>  <p align="center">International Bureau Satellite Division</p>
Licensee/Grantee:	Intelsat License LLC	
Call Sign:	S3016	
Satellite Name:	Galaxy 30	
Orbital Location: (required station- keeping tolerance)	125.0° W.L. (+/- 0.05 degrees east/west)	
Administration:	United States of America	
Nature of Service:	Fixed-Satellite Service (FSS); Radionavigation satellite service	
Scope of Grant:	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.	
Previous Grant(s):	N/A	
Service Area(s):	Schedule S Tech Report at Engineering Statement at 3.	
Frequencies:	<p>3700-4200 MHz (space-to-Earth) 5925-6425 MHz (Earth-to-space) 6425-6725 MHz (Earth-to-space) 10.7-10.95 GHz (space-to-Earth) 10.95-11.2 GHz (space-to-Earth) 11.2-11.45 GHz (space-to-Earth) 11.45-11.7 GHz (space-to-Earth) 12.75-13.25 GHz (Earth-to-space) 13.75-14.0 GHz (Earth-to-space) 17.8-18.8 GHz (space-to-Earth) 19.2-19.3 GHz (space-to-Earth) 19.3-19.4 GHz (space-to-Earth) 19.6-19.7 GHz (space-to-Earth) 19.7-20.2 GHz (space-to-Earth) 27.5-28.6 GHz (Earth-to-Space) 29.0-29.1 GHz (Earth-to-space) 29.25-30.0 GHz (Earth-to-space)¹</p> <p>Tracking, telemetry and command center frequencies: 4197.75, 4198.25, 4198.75, and 4199.25 MHz (space-to-Earth); 5926.75 MHz and 6424.5 MHz (Earth-to-space)</p>	

¹ Iridium Satellite LLC filed comments to this application stating that it has no objection to a grant of the Galaxy 30 Application, but requests that the Commission explicitly condition any authority to operate in the 29.25-29.3 GHz band on Intelsat’s successful coordination with Iridium. Comments of Iridium Satellite LLC (filed Sept. 11, 2017). In its application, Intelsat notes that the 29.25-29.3 GHz band is allocated to mobile-satellite service (MSS) feeder links and FSS on a co-primary basis, and that earth station uplink operation in this band will require coordination with the incumbent MSS feeder link operator. Engineering at 1, n.2. Further, Intelsat replied to Iridium’s comments, pointing out that, in addition to its reference to the coordination requirement in its application, Section 25.278 of the Commission’s rules (as included in para. 23 of the conditions for this grant) requires that geostationary FSS systems in the frequency bands that are licensed to non-geostationary satellite systems for feeder link operations shall coordinate their operations with the licensees of such non-geostationary satellite systems. Intelsat License LLC Response to Comments (filed September 21, 2017). For these reasons we find that the additional condition requested by Iridium is unnecessary.

ATTACHMENT TO GRANT

Intelsat License LLC

IBFS File Nos. SAT-LOA-20170524-00079 and SAT-AMD-20180410-00026

WAAS digital data:

1165.45-1187.45 MHz (space-to-Earth)

1564.42-1586.42 MHz (space-to-Earth)

6597.58-6619.58 MHz, and 6648.73-6670.73 MHz (Earth-to-space).

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:

1. Intelsat must prepare the necessary information, as may be required, for submission to the International Telecommunication Union (ITU) to initiate and complete the advance publication, coordination, due diligence, and notification process of this space station, in accordance with the ITU Radio Regulations. Intelsat will be held responsible for all cost-recovery fees associated with ITU filings. No protection from interference caused by radio stations authorized by other administrations is guaranteed unless coordination and notification procedures are timely completed or, with respect to individual administrations, coordination agreements are successfully completed. Any radio station authorization for which coordination has not been completed may be subject to additional terms and conditions as required to effect coordination of the frequency assignments of other administrations. See 47 CFR § 25.111(b).

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. Intelsat must operate Galaxy 30 at the 125.0° W.L. orbital location in compliance with all existing or future coordination agreements for this location.

4. Intelsat must maintain the Galaxy 30 space station within an east/west longitudinal station-keeping tolerance of ± 0.05 degrees of the 125.0° W.L. orbital location.

5. The operations of Galaxy 30 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 125.0° W.L. orbital location. Intelsat must also comport with the maximum power limits indicated in existing or future coordination agreements at 125.0° 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 125.0° W.L. involving approved communications with U.S.-licensed earth stations.

6. Intelsat's request for waiver of footnote NG52 of the U.S. Table of Frequency Allocations, 47 CFR § 2.106, NG52, to use the 10.7-11.7 GHz band to offer domestic services on an unprotected, non-harmful interference basis in the United States is GRANTED, as conditioned. We find that waiver does not undermine the purpose of the rules because the waiver involves only earth stations that are receive-only in the 10.7-11.7 GHz band and thus are not capable of causing interference into fixed stations operating in these bands. Furthermore, because Intelsat has agreed to accept any level of interference from fixed stations into receive earth stations in the band 10.7-11.7 GHz, fixed station operators will not be required to coordinate their station operations with Intelsat's earth stations' operations.² Under these circumstances, we determine that an additional coordination burden is not placed upon fixed station operators and their ability to expand service in the future would not be restricted in any manner.³

a. Intelsat's space-to-Earth transmissions in the 10.7-11.7 GHz band are to be conducted without interference protection from fixed stations to earth stations receiving these transmissions. This applies to fixed

² See Legal Narrative, IBFS File No SAT-AMD-20180410-00026 at 5-7.

³ *PanAmSat Licensee Corp. Application for Authority to Use the Extended Ku-Band Frequencies for Domestic Service*, Order and Authorization, 20 FCC Rcd 14642, 14646 (Sat. Div., Int'l Bur., 2005).

ATTACHMENT TO GRANT

Intelsat License LLC

IBFS File Nos. SAT-LOA-20170524-00079 and SAT-AMD-20180410-00026

stations to which frequencies in the 10.7-11.7 GHz band have either been already assigned, or to which frequencies in the 10.7-11.7 GHz band may be assigned at a later date.

b. Intelsat must inform its customers, in writing, including end-users receiving service from resellers accessing capacity on the Galaxy 30 space station, that domestic service in the 10.7-11.7 GHz band is being provided on an unprotected basis, and that the potential exists that future licensed fixed stations may cause harmful interference to unprotected receive earth stations in the 10.7-11.7 GHz band.

7. Intelsat's request for waiver of footnote NG52 of the U.S. Table of Frequency Allocations, 47 CFR § 2.106, NG52, to use the 12.75-13.25 GHz frequency band to offer domestic services on an unprotected, non-harmful interference basis in the United States is DENIED, without prejudice to resubmission in connection with an application to operate an individually-licensed earth station in this band. Intelsat did not provide any justification for a waiver of footnote NG52 in connection with transmitting earth stations in the 12.75-13.25 GHz frequency band.

8. The power flux-density (PFD) at the Earth's surface produced by the emissions from the Galaxy 30 space station in the 3700-4200 MHz frequency band (space-to-Earth) must not exceed the applicable power flux-density limits contained in 47 CFR § 25.208(a) of the Commission's rules, and in Article 21 of the ITU Radio Regulations.

9. Operations of Galaxy 30 in the 6650-6675.2 MHz (Earth-to-space) frequency band are subject to the terms of footnotes 5.149 and US342 to the United States Table of Frequency Allocations, 47 CFR § 2.106, 5.149, US342, which urge applicants to take all practicable steps to protect the radio astronomy service from harmful interference.

10. Operations of Galaxy 30 in the 6425-6725 MHz (Earth-to-space) frequency band are subject to the terms of footnote 5.458 to the United States Table of Frequency Allocations, 47 CFR § 2.106, 5.458, which directs Intelsat to bear in mind the needs of the passive services when operating the Galaxy 30 space station.

11. The power flux-density at the Earth's surface produced by the emissions from the Galaxy 30 space station in the 10.7-11.7 GHz(space-to-Earth) frequency band must not exceed the applicable power flux-density limits contained in 47 CFR § 25.208(b) of the Commission's rules, and in Article 21 of the ITU Radio Regulations.

12. Operations in the 10.7-10.95 GHz (space-to-Earth) and 11.2-11.45 GHz (space-to-Earth), and 12.75-13.25 (Earth-to-space) frequency bands are subject to footnote 5.441 to the United States Table of Frequency Allocations, 47 CFR § 2.106, 5.441, which states that operations of FSS geostationary satellite systems in these bands shall be in accordance with the provisions of Appendix 30B.

13. Operations in the 10.7-11.7 GHz frequency bands are subject to footnote US211 to the United States Table of Frequency Allocations, 47 CFR § 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. Although not a condition to this authorization, we also note that RAS frequently makes use of observations (passive) in bands not allocated to the RAS service. This practice is a result of scientifically valuable signals being subject to the Doppler Effect and shifted in frequency outside radio astronomy-allocated bands. For assistance with coordination or information about RAS sites, please contact the NSF Spectrum Management Unit: esm@nsf.gov.

14. Pursuant to footnote US337 of the United States Table of Frequency Allocations, 47 CFR § 2.106, US337, any earth station in the United States and its possessions communicating with the Galaxy 30 space station in the 13.75-13.8 GHz (Earth-to-space) frequency band is required to coordinate through the National Telecommunications and Information Administration (NTIA) Interdepartment Radio Advisory Committee (IRAC) Frequency Assignment Subcommittee (FAS) to minimize interference to the National Aeronautics and Space Administration (NASA) Tracking and Data Relay Satellite System, including manned space flight.

ATTACHMENT TO GRANT

Intelsat License LLC

IBFS File Nos. SAT-LOA-20170524-00079 and SAT-AMD-20180410-00026

15. In the 13.75-14.0 GHz (Earth-to-space) frequency band, receiving space stations in the FSS must not claim protection from radiolocation transmitting stations operating in accordance with footnote US356 to the United States Table of Frequency Allocations, 47 CFR § 2.106, US356.

16. Operations of any earth station in the United States and its possessions communicating with the Galaxy 30 space station in the 13.75-14.0 GHz (Earth-to-space) frequency band must comply with footnote US356 to the United States Table of Frequency Allocations, 47 CFR § 2.106, US356, which specifies a mandatory minimum antenna diameter of 4.5 meters and recommended minimum and maximum equivalent isotropically radiated powers (e.i.r.p.). Operations of any earth station located outside the United States and its possessions communicating with the Galaxy 30 space station in the 13.75-14.0 GHz (Earth-to-space) frequency band must be consistent with No. 5.502 to the ITU Radio Regulations, which specifies a mandatory minimum antenna diameter of 1.2 meters for earth stations of a geostationary satellite orbit network and specifies mandatory power limits.

17. Operations of any earth station in the United States and its possessions communicating with the Galaxy 30 space station in the 13.77-13.78 GHz (Earth-to-space) frequency band must comply with footnote US357 to United States Table of Frequency Allocations, 47 CFR § 2.106, US357, which specifies that the maximum e.i.r.p. density of emissions not exceed 71 dBW in any 6 MHz band within the 13.77-13.78 GHz (Earth-to-space) frequency 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 30 space station in the 13.77-13.78 GHz (Earth-to-space) frequency band must comply with No. 5.503 of the ITU Radio Regulations, which specifies a required maximum e.i.r.p. density of emissions (limit is dependent on antenna diameter) for communications with a space station in geostationary-satellite orbit.

18. Operations of the Galaxy 30 space station in the 19.2-19.3 GHz (space-to-Earth) and 29.0-29.1 GHz (Earth-to-space) frequency bands must not cause harmful interference to, or claim interference protection from, primary NGSO FSS systems. Intelsat must terminate operations immediately upon notification of harmful interference.

19. No later than sixty days before the scheduled initial launch of each NGSO FSS satellite system licensed or granted market access in the United States to operate in the 19.2-19.3 GHz and 29.0-29.1 GHz frequency bands, Intelsat must either: (1) notify the Commission in writing when an agreement has been reached with the NGSO satellite system operator, or (2) seek and obtain the Commission's approval of a modification of this license including detailed technical demonstrations of how Intelsat will protect the NGSO FSS satellite system. If neither condition is met, Intelsat must cease operations in the 19.2-19.3 GHz and 29.0-29.1 GHz frequency bands pursuant to this license until such time as compliance is demonstrated. With respect to any NGSO FSS system licensed or granted market access in the United States that commences operations prior to the scheduled launch of Galaxy 30, Intelsat must comply with either (1) or (2) above and must not commence operations in the 19.2-19.3 GHz and 29.0-29.1 GHz frequency bands pursuant to this license until such time as compliance is demonstrated. With respect to an NGSO FSS system granted market access to the United States, this condition applies only to communications with space stations of that NGSO FSS system to and from the United States.

20. Intelsat must coordinate its space-to-Earth operations in the 17.8-18.8 GHz, 19.2-19.3 GHz, 19.3-19.4 GHz, 19.6-19.7 GHz, and 19.7-20.2 GHz frequency bands with U.S. Federal systems in accordance with footnote US334 to the United States Table of Frequency Allocations, 47 CFR § 2.106, US334, prior to starting such operations. The use of space-to-Earth operations in the 17.8-18.8 GHz, 19.2-19.3 GHz, 19.3-19.4 GHz, 19.6-19.7 GHz, and 19.7-20.2 GHz frequency bands must be in accordance with any signed coordination agreement reached between Intelsat and U.S. Federal operators. Two weeks prior to the start of any operations in the 17.8-18.8 GHz, 19.2-19.3 GHz, 19.3-19.4 GHz, 19.6-19.7 GHz, and 19.7-20.2 GHz frequency bands, Intelsat must provide contact information for a 24/7 point of contact for the resolution of any harmful interference to Jimmy Nguyen, Email: Jimmy.Nguyen@us.af.mil.

21. The power flux-density at the Earth's surface produced by the emissions from the Galaxy 30 space station in the 17.8-18.8 GHz, 19.2-19.3 GHz, 19.3-19.4 GHz, and 19.6-20.2 GHz frequency bands (space-to-Earth),

ATTACHMENT TO GRANT

Intelsat License LLC

IBFS File Nos. SAT-LOA-20170524-00079 and SAT-AMD-20180410-00026

must not exceed the applicable power flux-density limits contained in Sections 25.138(a)(6), 25.140(a)(3)(iii), and 25.208 of the Commission's rules, 47 CFR §§ 25.138(a)(6), 25.140(a)(3)(iii), and 25.208, and in Article 21 of the ITU Radio Regulations.

22. Communications between U.S.-licensed earth stations and Galaxy 30 in the 27.5-28.35 GHz (Earth-to-space) frequency band are secondary with respect to Upper Microwave Flexible Use Service (UMFUS) operations, except for FSS operations associated with earth stations authorized pursuant to 47 CFR § 25.136, and will comply with any determinations set forth in the Spectrum Frontiers proceeding (GN Docket 14-177).

23. The 29.25-29.5 GHz band is designated for uplinks for FSS systems using geostationary satellites and for feeder uplinks for Mobile Satellite Systems using non-geostationary orbit satellites on a co-primary basis. Communications between U.S.-licensed earth stations and the Galaxy 30 space station in the 29.25-29.5 GHz band must comply with Sections 25.258 and 25.278 of the Commission's rules. 47 CFR §§ 25.258 and 25.278.

24. Galaxy 30 must begin providing service at the 125° W.L. orbital location in the 3700-4200 MHz (space-to-Earth) and 5925-6425 MHz (Earth-to-space) frequency bands before the satellite it is replacing, Galaxy 14 (Call Sign S2385), discontinues service at the 125.0° W.L. orbital location. Failure to meet this condition will render this authorization to operate in these frequency bands NULL and VOID.

25. The 1165.45-1187.45 MHz, 1564.42-1586.42 MHz, 6425-6725 MHz, 10.7-10.95 GHz, 10.95-11.2 GHz, 11.2-11.45 GHz, 11.45-11.7 GHz, 12.75-13.25 GHz, 13.75-14.0 GHz, 17.8-18.8 GHz, 19.2-19.3 GHz, 19.3-19.4 GHz, 19.6-20.2 GHz, 27.5-28.6 GHz, 29.0-29.1 GHz, and 29.25-30.0 GHz frequencies are included on Galaxy 30 but are not on the Galaxy 14 satellite it is replacing.⁴ Authorization to operate in these frequency bands is subject to the following requirements:

- a. Intelsat must post a surety bond in satisfaction of 47 CFR §§ 25.165(a)(2) & (b) no later than December 14, 2018, and thereafter maintain on file a surety bond requiring payment in the event of a default in an amount, at minimum, determined according to the formula set forth in 47 CFR § 25.165(a)(2); and
- b. Intelsat must launch the space station, position it in its assigned orbital location, and operate it in accordance with the station authorization no later than November 14, 2023, 47 CFR § 25.164(a).

This authorization will be null and void automatically, without further Commission action if Intelsat fails to comply with any of these requirements. Failure to comply with the milestone requirement of 47 CFR § 25.164(a), will also result in forfeiture of Intelsat's surety bond. By November 29, 2023, Intelsat must either demonstrate compliance with its milestone requirement or notify the Commission in writing that the requirement was not met. 47 CFR § 25.164(f).

⁴ Although Intelsat's amendment to its application states that Galaxy 30 will have the capability to operate in the 14.0-14.5 GHz, 19.4-19.6 GHz, and 29.1-29.25 GHz bands, Intelsat is not seeking authority to operate in these bands at this orbital location and thus we do not grant Intelsat authority to operate in these bands. *See* Amendment Engineering at 1-2. Iridium Satellite LLC filed comments to Intelsat's amendment requesting (1) that Intelsat be required to describe any potential future use of the 19.4-19.6 GHz and 29.1-29.25 GHz bands, and (2) that any authorization to operate in these bands include a condition requiring that "that there be no intentional emissions from Galaxy 30 within the 19.4-19.6 GHz band, and that any transponders capable of transmission in that band remain shut off." Comments of Iridium Satellite LLC (filed July 16, 2018). Intelsat filed a reply to Iridium's comments, stating that it is under no obligation to explain the payloads it has decided to include on the spacecraft or describe future plans for frequencies for which it has not sought operating authority, and that any conditions reiterating this point would be superfluous. Response of Intelsat License LLC (filed July 31, 2018). Because Intelsat is not seeking authorization to operate in these bands, we find that Iridium's requests are without merit and thus deny them. If, in the future, Intelsat chooses to operate in these bands, it will need to file an application requesting that the Commission modify the instant authorization. Iridium will have the opportunity to file comments to that application at that time.

ATTACHMENT TO GRANT

Intelsat License LLC

IBFS File Nos. SAT-LOA-20170524-00079 and SAT-AMD-20180410-00026

26. The license term for the space station is 15 years and will begin on the date that Intelsat certifies to the Commission that Galaxy 30 has been successfully placed into orbit and its operations fully conform to the terms and conditions of this authorization. Intelsat is directed to file its certification of commencement of operation with the Commission within five business days of Galaxy 30 being placed into operation at the 125.0° W.L. orbital location.

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:	November 14, 2018
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Term Dates	From: see conditions	To: see conditions
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Approved:



Stephen J. Duall
Chief, Satellite Policy Branch

9-16. Name of Contact Representative			
Name:	Jennifer D. 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:	22102 -5972
Attention:	Jennifer D. Hindin	Relationship:	Legal Counsel

CLASSIFICATION OF FILING

<p>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.</p> <p>a.</p> <p>(N/A) a1. Earth Station</p> <p><input checked="" type="radio"/> a2. Space Station</p>	<p>b.</p> <p><input type="radio"/> b1. Application for License of New Station</p> <p>(N/A) b2. Application for Registration of New Domestic Receive-Only Station</p> <p>(N/A) b3. Amendment to a Pending Application</p> <p>(N/A) b4. Modification of License or Registration</p> <p>(N/A) b5. Assignment of License or Registration</p> <p>(N/A) b6. Transfer of Control of License or Registration</p> <p>(N/A) b7. Notification of Minor Modification</p> <p>(N/A) b8. Application for License of New Receive-Only Station Using Non-U.S. Licensed Satellite</p> <p><input type="radio"/> b9. Letter of Intent to Use Non-U.S. Licensed Satellite to Provide Service in the United States</p> <p><input type="radio"/> b10. Replacement Satellite Application – no new frequency bands</p> <p><input checked="" type="radio"/> b11. Replacement Satellite Application – new frequency bands (Not eligible for streamlined processing)</p> <p><input type="radio"/> b12. Petition for Declaratory Ruling to be Added to the Permitted List</p> <p>(N/A) b13. Other (Please specify)</p>
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17c. 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):

17c. Fee Classification BNY – Space Station (Geostationary)

18. If this filing is in reference to an existing station, enter:

(a) Call sign of station:

Not Applicable

19. If this filing is an amendment to a pending application enter:

(a) Date pending application was filed:

Not Applicable

(b) File number of pending application:

Not Applicable

TYPE OF SERVICE

<p>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:</p> <p><input checked="" type="checkbox"/> a. Fixed Satellite <input type="checkbox"/> b. Mobile Satellite <input type="checkbox"/> c. Radiodetermination Satellite <input type="checkbox"/> d. Earth Exploration Satellite <input type="checkbox"/> e. Direct to Home Fixed Satellite <input type="checkbox"/> f. Digital Audio Radio Service <input type="checkbox"/> g. Other (please specify)</p>	
<p>21. STATUS: Choose the button next to the applicable status. Choose only one. <input type="radio"/> Common Carrier <input checked="" type="radio"/> Non-Common Carrier</p>	<p>22. If earth station applicant, check all that apply. Not Applicable</p>
<p>23. If applicant is providing INTERNATIONAL COMMON CARRIER service, see instructions regarding Sec. 214 filings. Choose one. Are these facilities: <input type="radio"/> Connected to a Public Switched Network <input type="radio"/> Not connected to a Public Switched Network <input checked="" type="radio"/> N/A</p>	
<p>24. FREQUENCY BAND(S): Place an "X" in the box(es) next to all applicable frequency band(s). <input checked="" type="checkbox"/> a. C-Band (4/6 GHz) <input checked="" type="checkbox"/> b. Ku-Band (12/14 GHz) <input checked="" type="checkbox"/> c. Other (Please specify upper and lower frequencies in MHz.) Frequency Lower: Frequency Upper: (Please specify additional frequencies in an attachment)</p>	

TYPE OF STATION

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

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

26. TYPE OF EARTH STATION FACILITY: Not Applicable

PURPOSE OF MODIFICATION

27. The purpose of this proposed modification is to: (Place an "X" in the box(es) next to all that apply.) Not Applicable

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?	<input type="radio"/> Yes <input checked="" type="radio"/> No
30. Is the applicant an alien or the representative of an alien?	<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> N/A
32. Is the applicant a corporation of which more than one-fifth of the capital stock is owned of record 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?	<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> N/A
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?	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A
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.	

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 checked="" type="radio"/> Yes <input 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 checked="" type="radio"/> Yes <input 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><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><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><input type="radio"/> Yes <input checked="" type="radio"/> No</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.

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. Yes No

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. Yes No

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?

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.)

Intelsat License LLC, pursuant to Section 25.114 of the rules of the Federal Communications Commission, hereby applies to launch and operate a C-band replacement satellite with new extended C-, Ku- and Ka-band frequencies, to be known as Galaxy 14R, at the 125.0 W.L. orbital location. Galaxy 14R is scheduled for launch 4Q 2019 and, after

Engineering

43a. Geographic Service Rule Certification

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.

A

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.

B

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.

C

Legal

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) Limited Liability Company

45. Name of Person Signing
Susan H. Crandall

46. Title of Person Signing
Assoc. General Counsel, Intelsat Corporation

47. Please supply any need attachments.

1:

2:

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

Intelsat License LLC, pursuant to Section 25.114 of the rules of the Federal Communications Commission, hereby applies to launch and operate a C-band replacement satellite with new extended C-, Ku- and Ka-band frequencies, to be known as Galaxy 14R, at the 125.0 W.L. orbital location. Galaxy 14R is scheduled for launch 4Q 2019 and, after traffic transition, will replace the Galaxy 14 satellite (call sign S2385), which is currently operating at 125.0 W.L. Galaxy 14R will operate on a non-common carrier basis.