

S2913 SAT-MOD-20160916-00091 IB2016002086
Intelsat License LLC
Intelsat 29e



File # SAT-MOD-20160916-00091

Call Sign S2913 Grant Date 01/26/17
(or other identifier)

Term Dates
From 01/26/17 To: 03/21/31

Approved: Stephen J. Duall

Stephen J. Duall
Chief, Satellite Policy Branch

Approved by OMB
3060-0678

Date & Time Filed: Sep 16 2016 3:49:28:943PM
File Number: SAT-MOD-20160916-00091

*with conditions


FCC APPLICATION FOR SPACE AND EARTH STATION:MOD OR AMD – MAIN FORM	FCC Use Only
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 Intelsat 29e (Call Sign S2913)

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 No. SAT-MOD-20160916-00091

IBFS File No(s):	SAT-MOD-20160916-00091	<p>GRANTED – With Conditions</p>  <p>International Bureau Satellite Division</p>
Licensee/Grantee:	Intelsat License LLC	
Call Sign:	S2913	
Satellite Name:	Intelsat 29e	
Orbital Location: (required station-keeping tolerance)	50.0° W.L. (+/- 0.05 degrees east/west)	
Administration:	United States of America	
Nature of Service:	Fixed-Satellite Service (FSS)	
Scope of Grant:	Modification to permit operation of command channels with center frequencies in the ranges 5850.5-5853.0 MHz and 6422.0-6424.5 MHz (Earth-to-space), selectable via ground command in 100 kilohertz steps.	
Previous Grant(s):	Authority to construct, launch, and operate a geostationary orbit space station, to be known as Intelsat 29e to provide fixed-satellite service at the 50.0° W.L. orbital location. IBFS File Nos. SAT-LOA-20130722-00097 and SAT-AMD-20140718-00087.	
Service Area(s):	See IBFS File No. SAT-LOA-20130722-00097, Supplemental .gxt files, Engineering Statement at 1.	
Frequencies:	<p>3700-4200 MHz (space-to-Earth) 5850-5925 MHz (Earth-to-space) 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) 11.7-11.95 GHz (space-to-Earth) 11.95-12.2 GHz (space-to-Earth) 12.2-12.5 GHz (space-to-Earth) 12.75-13.25 GHz (Earth-to-space) 13.75-14.0 GHz (Earth-to-space) 14.0-14.5 GHz (Earth-to-space) 17.3-17.55 GHz (Earth-to-space) 19.7-20.2 GHz (space-to-Earth) 29.5-30.0 GHz (Earth-to-space)</p> <p>Command: 5850.5-5853.0 MHz and 6422.0-6424.5 MHz (Earth-to-space; selectable center frequencies in 100 kilohertz steps) Telemetry/Tracking: 3701.25 MHz, 3701.75 MHz, 3702.25 MHz, 3702.75 MHz (space-to-Earth)</p>	
<p>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:</p> <ol style="list-style-type: none"> 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, international 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 		

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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 Intelsat 29e at the 50.0° W.L. orbital location in compliance with all existing or future coordination agreements for this location.
4. Intelsat must maintain the Intelsat 29e space station within an east/west longitudinal station-keeping tolerance of ± 0.05 degrees of the 50.0° W.L. orbital location.
5. Intelsat's operations of Intelsat 29e at the 50.0° W.L. orbital location in the 3700-4200 MHz (space-to-Earth), 5925-6425 MHz (Earth-to-space), 10.95-11.2 GHz (space-to-Earth), 11.45-11.7 GHz (space-to-Earth), 11.7-11.95 GHz (space-to-Earth), 13.75-14.0 GHz (Earth-to-space), and 14.0-14.5 GHz (Earth-to-space) frequency bands are subject to the following additional conditions:
 - a. Intelsat shall remain a signatory to the Public Services Agreement between Intelsat and the International Telecommunications Satellite Organization (ITSO) that was approved by the ITSO Twenty-fifth Assembly of Parties, as amended.
 - b. No entity shall be considered a successor-in-interest to Intelsat under the ITSO Agreement for licensing purposes unless it has undertaken to perform the obligations of the Public Services Agreement approved by the Twenty-fifth Assembly of Parties, as amended.
6. The operation of Intelsat 29e and associated earth stations must comport with: (i) the applicable uplink limits in Sections 25.138, 25.211, 25.218, 25.221, 25.222, 25.226, and/or 25.227 of the Commission's rules in the 5850-5925 MHz, 5925-6425 MHz, 6425-6725 MHz, 13.75-14.0 GHz, 14.0-14.5 GHz, and 29.5-30.0 GHz frequency bands; (ii) the applicable downlink limits in Sections 25.138 and/or 25.212 of the Commission's rules in the 10.95-11.2 GHz, 11.45-11.7 GHz, 11.7-11.95 GHz (in ITU Region 2), 11.95-12.2 GHz (in ITU Region 2), 12.2-12.5 GHz (in ITU Regions 1 and 3), and 19.7-20.2 GHz frequency bands. These limits cannot be exceeded unless Intelsat coordinates any non-conforming operation with the operations of U.S.-licensed GSO space stations within 6 degrees of 50.0° 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 50.0° W.L. involving approved communications with U.S.-licensed earth stations.
7. The FSS operations of Intelsat 29e and associated earth stations must comport with: (i) the parameters of the Appendix 30B satellite network USASAT-101B filed with the ITU for operation in the 10.7-10.95 GHz (space-to-Earth), 11.20-11.45 GHz (space-to-Earth), and 12.75-13.25 GHz (Earth-to-space) frequency bands and any additional conditions resulting from the coordination of this network; and (ii) the parameters of the Appendix 30/30A satellite network USABSS-39 filed with the ITU for operation in the 12.2-12.5 GHz (space-to-Earth) and 17.30-17.55 GHz (Earth-to-space) frequency bands, and any additional conditions resulting from the coordination of this network.
8. Intelsat's operations in the BSS (Broadcast Satellite Service) Plan frequency band (11.7-12.2 GHz) in ITU Region 1 are pursuant to No. 4.4 of the ITU Radio Regulations and must not cause harmful interference to, nor claim protection from, harmful interference caused by, a station operating in accordance with the ITU Constitution, Convention and Regulations. We find that operations under No. 4.4 are appropriate given that such operations are unlikely to interfere with Region 1 BSS operations, given the limitations in Annex 7 of Appendix 30 (no BSS satellites serving Region 1 shall occupy an orbital position further west than 37.2° W.L.).
9. 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 Intelsat 29e space station in the 13.75-14.0 GHz (Earth-to-space) frequency band is required to coordinate through National Telecommunications and Information Administration (NTIA) Interdepartment Radio Advisory Committee

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- (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.
10. In the 13.75-14.0 GHz (Earth-to-space) frequency band, receiving space stations in the fixed satellite service must not claim protection from radiolocation transmitting stations operating in accordance with the United States Table of Frequency Allocations, 47 CFR § 2.106.
 11. Operations of any earth station in the United States and its possessions communicating with the Intelsat 29e space station in the 13.75-14.0 GHz (Earth-to-space) frequency band must comply with footnote US356 to United States Table of Frequency Allocations, 47 CFR § 2.106, US356, which specifies a mandatory minimum antenna diameter of 4.5 meters and a non-mandatory minimum and maximum equivalent isotropically radiated powers (EIRP). Operations of any earth station located outside the United States and its possessions communicating with the Intelsat 29e 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 allows a minimum antenna diameter of 1.2 meters for earth stations of a geostationary satellite orbit network and specifies mandatory power limits.
 12. Operations of any earth station in the United States and its possessions communicating with the Intelsat 29e 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 EIRP 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.¹ Operations of any earth station located outside the United States and its possessions communicating with the Intelsat 29e 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 EIRP density of emissions (limit is dependent on antenna diameter) for communications with a space station in geostationary-satellite orbit.
 13. Intelsat must coordinate its downlink operations in the 19.7-20.2 GHz (space-to-Earth) frequency band with U.S. Federal systems, including Federal operations to earth stations in foreign countries, in accordance with Footnote US334 to the Table of Frequency Allocations, 47 CFR § 2.106, US334.
 14. Operations of Intelsat 29e in the 6650-6675.2 MHz (Earth-to-space) and 14.47-14.5 GHz (Earth-to-space) frequency bands 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.
 15. Operations of Intelsat 29e in the 6425-6725 MHz (Earth-to-space) frequency band is subject to Footnote 5.458 to the United States Table of Frequency Allocations, 47 CFR § 2.106, Footnote 5.458, which directs Intelsat to bear in mind the needs of the passive services when operating the Intelsat 29e space station.
 16. Intelsat's use of the 10.7-10.95 GHz (space-to-Earth), 11.2-11.45 GHz (space-to-Earth), and 12.75-13.25 GHz (Earth-to-space) frequency bands is subject to footnote 5.441 to the United States Table of Frequency Allocations, 47 CFR § 2.106, 5.441, which states that operations in these bands shall be in accordance with the provisions of Appendix 30B.
 17. Intelsat's use of the 10.7-11.7 GHz (space-to-Earth) frequency band is 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.
 18. Intelsat's request for waiver of footnote US245 of the United States Table of Frequency Allocations, 47 CFR § 2.106, US245, which states that use of the 5850-5925 MHz (Earth-to-space) frequency band for non-Federal

¹ Footnote US357 places a restriction on FSS earth station operations in order to protect government operations in the band, including manned space flight. 47 CFR § 2.106, US357.

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fixed-satellite service is limited to international inter-continental systems, is GRANTED. Use of the 5850-5925 MHz (Earth-to-space) frequency band remains subject to case-by-case electromagnetic compatibility analysis in connection with licensing of earth stations seeking to list Intelsat-29e as a point of communication in this band. Intelsat must not claim protection from radiolocation transmitting stations operating in accordance with footnote G2.

19. Intelsat's requests for waiver of § 25.210(a) of the Commission's rules, 47 CFR § 25.210(a), which requires that all space stations in the Fixed-Satellite Service used for domestic service in the 3700-4200 MHz (space-to-Earth) and 5925-6425 MHz (Earth-to-space) frequency bands use orthogonal linear polarization, be designed so that the polarization sense of uplink transmissions is opposite to that of downlink transmissions on the same transponder, and be capable of switching polarization sense upon ground command, is GRANTED. Intelsat asserts that these rules were designed to govern analog video services. We find that because Intelsat 29e will not provide this type of service, waiver will not undermine the purpose of the rule.
20. Intelsat's request for waiver of footnote NG52 of the United States Table of Allocations, 47 CFR § 2.106, NG52, to use the 10.7-11.7 GHz (space-to-Earth) frequency band to offer domestic services on an unprotected, non-interference basis in the United States is GRANTED, as conditioned.² Intelsat's request involves space-to-Earth transmissions that meet the power-flux-density (pfd) on the ground required to protect fixed-service stations in the 10.95-11.20 GHz (space-to-Earth) and 11.45-11.70 GHz (space-to-Earth) frequency bands.³ Intelsat has agreed to accept any level of interference from fixed stations, and operators of fixed stations will not be required to coordinate their operations with Intelsat's receive earth stations.⁴ Under these circumstances, we determine that no additional coordination burden is placed upon fixed station operators and their ability to expand service in the future would not be restricted in any manner.⁵ Grant here, as conditioned, is consistent with prior Commission precedent,⁶ and is subject to the following conditions:
 - a. Intelsat's space-to-Earth transmissions in the 10.7-11.7 GHz (space-to-Earth) frequency band that provide domestic service are on an unprotected, non-harmful interference basis relative to fixed stations. As such, Intelsat must not cause harmful interference to, or claim protection from, fixed stations to which frequencies in the 10.7-11.7 GHz (space-to-Earth) frequency band have either been already assigned, or to which frequencies in the 10.7-11.7 GHz (space-to-Earth) frequency band may be assigned at a later date. Intelsat must terminate operations in the 10.7-11.7 GHz (space-to-Earth) frequency band upon notification that its operations are causing interference to fixed stations

² Intelsat requests a waiver of footnote NG104 to the United States Table of Frequency Allocations and footnote 2 to Section 25.202(a)(1), of the Commission's rules, which limited FSS operations in the 10.7-11.7 GHz frequency band to international-only services. 47 CFR § 2.106, NG104; and footnote 2 47 CFR § 25.202(a)(1). The Commission renumbered footnote NG104 as new footnote NG52 and removed footnote 2 to Section 25.202(a)(1). *See Revisions to Parts 2 and 25 of the Commission's Rules to Govern the Use of Earth Stations Aboard Aircraft Communicating with Fixed-Satellite Service Geostationary-Orbit Space Stations Operating in the 10.95-11.2 GHz, 11.45-11.7 GHz, 11.7-12.2 GHz and 14.0-14.5 GHz Frequency Bands*, Notice of Proposed Rulemaking and Report and Order, 27 FCC Rcd 16510, 16520-21, ¶ 21 (2012) (*ESAA Order*). As a result of this Commission action, Intelsat's request for waiver of footnote 2 to Section 25.202(a)(1) is no longer necessary. Footnote NG52 retains the limitation of FSS operations in the 10.7-11.7 GHz frequency band to international-only services, with an exception not relevant here.

³ *See* § 25.208(b).

⁴ *See* Legal Narrative at 5-6.

⁵ *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).

⁶ The Intelsat 1R space station, which is currently authorized to operate at 50.0° W.L, has a waiver of NG104 for the 10.95-11.2 and 11.45-11.7 GHz frequency bands portion of the Ku-band as a condition of its current authorization. *See Policy Branch Information: Action Taken*, Public Notice, Report No. SAT-00713 (IBFS File No. SAT-MOD-20090720-00073, as amended by SAT-AMD-20090820-00091 and SAT-AMD-20091113-00122) (Aug. 5, 2010).

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operating in this band, and must immediately inform the Commission, in writing, of such an event.

- b. Intelsat is required to inform its customers, in writing, including end-users receiving service from resellers accessing capacity on the Intelsat 29e space station, that the service in the 10.7-11.7 GHz (space-to-Earth) frequency band with regard to domestic service is being provided on an unprotected basis, and that the potential exists that future licensed fixed stations may cause harmful interference to these earth stations.
21. Intelsat's request for waiver of the United States Table of Frequency Allocations, 47 CFR § 2.106, to provide FSS to the United States and its territories using the 12.2-12.5 GHz (space-to-Earth) frequency band and the 17.3-17.55 GHz (Earth-to-space) frequency band on a non-interference, non-protected basis, is GRANTED. Such operations shall be on a non-interference and non-protected basis within the United States and its territories located within ITU Region 2. Waiver is justified because FSS operations in these bands are consistent with No. 5.492 of the ITU Radio Regulations and the closest U.S. BSS Plan entry is at 61.5° W.L.
22. Intelsat's request for waiver of footnote NG52 of the United States Table of Allocations, 47 CFR § 2.106, to use the 12.75-13.25 GHz (Earth-to-space) frequency band to offer domestic services on an unprotected, non-interference basis in the United States is GRANTED. Intelsat's operations within the United States must be limited to a single gateway earth station in this band. As such, we find that waiver does not undermine the purpose of the rules.
23. Intelsat's request for a waiver of Section 25.114(d)(3) of the Commission's rules, 47 CFR § 25.114(d)(3), is DISMISSED as moot in light of changes to the rules that render the waiver request unnecessary.⁷ Additionally, Intelsat's request for a waiver of Section 25.202(g) of the Commission's rules, 47 CFR 25.202(g), concerning TT&C operations at band edges, is also DISMISSED as unnecessary, because Intelsat's proposed TT&C operations comply with the rule.
24. Intelsat's request for a waiver of Section 25.117(c) of the Commission's rules, 47 CFR § 25.117(c), requiring the completion of a Schedule S for space station license modifications, is GRANTED. Intelsat provided sufficient technical information relevant to the new command frequencies for Intelsat 29e in the legal narrative, engineering statement, and supplements attached to this application, and certifies that no other technical parameters for the operations of Intelsat 29e will change as a result of a grant of this application.⁸
25. Grant of this application does not change the expiration date of the authorization for the Intelsat 29e space station, which is March 21, 2031.⁹

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.

⁷ Section 25.114(d)(3) of the Commission's rules concerning predicted space station antenna gain contour(s) has been replaced by Section 25.114(c)(4)(vii), and Intelsat provides sufficient information to demonstrate compliance with the provisions of the new rule. See 47 CFR § 25.114(c)(4)(vii).


⁸ See Narrative & Exhibits; Engineering Statement; Letter from Cynthia J. Grady, Regulatory Counsel, Intelsat Corporation, to Marlene H. Dortch, Secretary, FCC (filed Oct 20, 2016); Letter from Cynthia J. Grady, Regulatory Counsel, Intelsat Corporation, to Marlene H. Dortch, Secretary, FCC (filed Nov. 14, 2016); Letter from Cynthia J. Grady, Regulatory Counsel, Intelsat Corporation, to Marlene H. Dortch, Secretary, FCC (filed Nov. 15, 2016).

⁹ Intelsat certified that Intelsat 29e arrived at 50.0° W.L. on March 21, 2016, and is capable of using all its assigned frequencies consistent with its license. Letter from Susan H. Crandall, Assoc. General Counsel, Intelsat to Marlene H. Dortch, Secretary, FCC, IBFS File Nos. SAT-LOA-20130722-00097 (Mar. 28, 2016). Accordingly, the bond for Intelsat 29e was released. *Policy Branch Information: Actions Taken*, Public Notice, DA 16-612, Report No. SAT-01164 (June 3, 2016).

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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:	January 26, 2017	
Term Dates	From: January 26, 2017	To: March 21, 2031

Approved:

Stephen L. Duall
Chief, Satellite Policy Branch

9-16. Name of Contact Representative

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

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. <input type="checkbox"/> Using U.S. licensed satellites <input type="checkbox"/> Using Non-U.S. licensed satellites</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.

- 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?	<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? Yes No 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

35. Does the Applicant request any waivers or exemptions from any of the Commission's Rules? Yes No
If Yes, attach as an exhibit, copies of the requests for waivers or exceptions with supporting documents.

EngineeringStatement

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. Yes No

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.

Yes No

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

Yes No

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.

Yes No

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 25.117 of the rules of the Federal Communications Commission, hereby seeks to modify the authorization for the Intelsat 29e (Call Sign S2913) satellite. Specifically, this modification application seeks authority to operate the command channels of Intelsat 29e with center frequencies in the ranges

Narrative & Exhibits

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

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
Susan H. Crandall

→

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

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 25.117 of the rules of the Federal Communications Commission, hereby seeks to modify the authorization for the Intelsat 29e (Call Sign S2913) satellite. Specifically, this modification application seeks authority to operate the command channels of Intelsat 29e with center frequencies in the ranges 5850.5 - 5853.0 MHz and 6422 - 6424.5 MHz, selectable via ground command in 100 kHz steps.