

S2947 SAT-MOD-20170622-00093 IB2017001662  
 Horizons-3 License LLC  
 Horizons 3e



File # SAT-MOD-20170622-00093  
 Call Sign S2947 Grant Date 04/25/18  
 (or other identifier)  
 From See Conditions Term Dates See Conditions To:  
 Approved: [Signature]

Approved by OMB  
 3060-0678

Date & Time Filed: Jun 22 2017 2:19:13:286PM  
 File Number: SAT-MOD-20170622-00093

\*with conditions

Stephen J. Duall  
 Chief, Satellite Policy Branch

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 Horizons 3e Satellite (S2947)

1-8. Legal Name of Applicant

<b>Name:</b>	Horizons-3 License LLC	<b>Phone Number:</b>	703-559-7848
<b>DBA Name:</b>		<b>Fax Number:</b>	703-559-8539
<b>Street:</b>	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**  
**Horizons-3 License LLC**  
**IBFS File No. SAT-MOD-20170622-00093**

<b>IBFS File No(s):</b>	SAT-MOD-20170622-00093	<p><b>GRANTED – With Conditions</b></p>  <p><b>International Bureau Satellite Division</b></p>
<b>Licensee/Grantee:</b>	Horizons-3 License LLC (Horizons-3 License) <sup>1</sup>	
<b>Call Sign:</b>	S2947	
<b>Satellite Name:</b>	Horizons 3e	
<b>Orbital Location: (required station-keeping tolerance)</b>	169.0° E.L. (+/- 0.05 degrees east/west)	
<b>Administration:</b>	United States of America Papua New Guinea (ITU) <sup>2</sup>	
<b>Nature of Service:</b>	Fixed-Satellite Service (FSS)	
<b>Scope of Grant:</b>	Modification of the authorization for the Horizons 3e space station to (1) update technical information to reflect the current design of the spacecraft; and (2) add the 5850-5853.5 MHz (Earth-to-space) frequency band, to only be used as a tunable command link.	
<b>Previous Grant(s):</b>	<p>Modification of the authorization for Horizons 3e to eliminate the continuity of service obligation with respect to the 12.25-12.5 GHz and 14.25-14.5 GHz frequency bands at the 169° E.L. orbital location. IBFS File No. SAT-MOD-20170113-00005 (granted May 4, 2017).</p> <p>Authority to construct, deploy, and operate a C- and Ku-band geostationary orbit space station at 169.0° E.L. IBFS File No. SAT-LOA-20151202-00080 (granted July 6, 2016).</p>	
<b>Service Area(s):</b>	See Schedule S Tech Report at 5-19	
<b>Frequencies:</b>	<p>3700–4200 MHz (space-to-Earth)  10.85-11.7 GHz (space-to-Earth)  12.2-12.75 GHz (space-to-Earth)</p> <p>5925-6425 MHz (Earth-to-space)  12.92-13.25 GHz (Earth-to-space)  13.75-14.5 GHz (Earth-to-space)</p> <p>Telemetry, Tracking, and Command center frequencies  4197.75 MHz, 4198.25 MHz, 4198.75 MHz and 4199.25 MHz (space-to-Earth),  6422-6424.5 MHz (Earth-to-space), 5850-5853.5 MHz (Earth-to-space)<sup>3</sup></p>	
<p><b>Operations under this grant must comport with the legal and technical specifications set forth by the applicant or petitioner and with the 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>Horizons-3 License must operate Horizons 3e at the 169.0° E.L. orbital location in compliance with all existing or future coordination agreements for this location. In the absence of a coordination agreement, such communications must comply with applicable provisions of the ITU Radio Regulations as the Commission cannot guarantee the success of the required coordination.</li> </ol>		

<sup>1</sup> Horizons-3 License LLC is an indirect wholly owned subsidiary of Intelsat S.A.

<sup>2</sup> See paragraph 4 and accompanying footnote.

<sup>3</sup> Horizons 3e can be commanded through the use of two tunable command channels with center frequencies in the ranges 5850.5-5853.0 MHz and 6422-6424.5 MHz, selectable via ground command in 100 kHz steps. See Engineering Statement at 4.

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2. While at the 169.0° E.L. orbital location, Horizons-3 License must maintain the Horizons 3e space station with an east/west longitudinal station-keeping tolerance of +/- 0.05 degrees.
3. In connection with the provision of service in any particular country, Horizons-3 License is obliged to comply with the applicable laws, regulations, rules, and licensing procedures of that country.
4. The U.S. Administration will not object to use of the Horizons 3e satellite by the Papua New Guinea Administration for claiming bringing into use or continuing the use of orbital assignments at 169.0° E.L. in the following frequency bands: 5850-5853.5 MHz, 10.85-10.95 GHz, 10.95-11.2 GHz, 11.2-11.45 GHz, 12.2-12.25 GHz, and 12.92-13.25 GHz.<sup>4</sup>
5. Horizons-3 License's requests for waiver of sections 25.210(a)(3), and 25.210(i)(1) of the Commission's rules, 47 CFR §§ 25.210(a)(3), and 25.210(i)(1), are moot. Section 25.210(a)(3) requires that space stations in the FSS used for domestic service in the 3700-4200 MHz and 5925-6425 MHz frequency bands be capable of switching polarization sense upon ground command. Section 25.210(i)(1) requires space station antennas in the FSS to be designed to meet a cross-polarization isolation of at least 30 dB within the primary coverage area of the antenna. Sections 25.210(a)(3) and 25.210(i)(1) were eliminated as part of a recent Commission-level order streamlining Part 25 rules governing satellite communications.<sup>5</sup>
6. Horizons-3 License's request for waivers of sections 25.202(a)(1) and 2.106 of the Commission's rules, 47 CFR §§ 25.202(a)(1) and 2.106, which allocate 12.2-12.7 GHz to Fixed Service (FS) and Broadcast Satellite Service (BSS) in the United States, and 12.7-12.75 GHz to FS, Mobile Service, and FSS (Earth-to-space) in International Telecommunication Union (ITU) Region 2, including the United States, is GRANTED on a non-interference and non-protected basis. Horizons-3 License will operate Horizons 3e in these bands at the 169.0° E.L. orbital location in the space-to-Earth direction, which is in accordance with the Region 3 allocation for FSS, and thus conforms to the International Table of Frequency Allocations. Further, under the ITU Region 2 BSS Plan, there is at least 15.8 degrees of orbital separation between Horizons 3e at 169.0° E.L. and the nearest possible BSS network that could provide service to any portion of the ITU Region 2, so it is unlikely that operations of Horizons 3e will interfere with any BSS networks in Region 2. Moreover, Intelsat License LLC (Intelsat) was formerly authorized to operate its Intelsat 8 space station to provide FSS at the 168.9° E.L. orbital location in the 12.25-12.75 GHz (space-to-Earth) frequency band, on a non-interference, non-protected basis to any earth station in ITU Region 2.<sup>6</sup> Additionally, Horizons-3 License will protect terrestrial station operations by complying with ITU PFD limits specified in No. 21.16 of the ITU Radio Regulations. As a non-conforming user of the 12.2-12.75 GHz band in ITU Region 2, Horizons-

<sup>4</sup> Horizons 3e's operation in the frequency bands 12.75-13.25 GHz, 10.7-10.95 GHz, and 11.2-11.45 GHz bands have been coordinated and notified under the ITU filings of the Administration of the United States' USASAT-101C and the Administration of Papua New Guinea's NEW DAWN FSS-7. Horizons 3e's operation in the frequency bands 5850-5853.5 MHz, 10.95-11.2 GHz and 12.2-12.25 GHz will use the ITU filings of the Administration of the United States' USASAT-60V and the Administration of Papua New Guinea's NEW DAWN 43. Horizons 3 requests that the United States Administration state its non-objection to Papua New Guinea's use of Horizons 3e for purposes of bringing into use and maintaining the NEW DAWN FSS-7 and NEW DAWN 43 filings. Application at unnumbered 6. Horizons 3 also states that Horizons 3e's operations in the 3700-4200 MHz, 5925-6425 MHz, 12.25-12.75 GHz, and 14.0-14.5 GHz; 11.45-11.7 GHz; and 13.75-14.0 GHz bands have been coordinated and notified under the Administration of the United States' ITU filings USASAT-60J, USASAT-55L, and USASAT-55V, respectively. *Id.* We note that the U.S. Administration will not object to use of the Horizons 3e satellite by the Papua New Guinea Administration for claiming bringing into use or continuing the use of only those bands, or portions of bands, that are authorized for operation of the Horizons 3e space station at the 169.0° E.L. orbital position.

<sup>5</sup> See *Comprehensive Review of Licensing and Operating Rules for Satellite Services*, Second Report and Order, 30 FCC Rcd 14713, 14816-17, paras. 331-333 (2015).

<sup>6</sup> See IBFS File No. SAT-MOD-20120619-00100, as amended by IBFS File No. SAT-AMD-20120815-00131, granted Aug. 9, 2013. See also IBFS File No. SAT-MOD-20151021-00073, granted Feb. 25, 2016.

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3 License must not cause harmful interference to existing and future authorized users who are operating in accordance with the Table of Allocations in ITU Region 2, and must accept interference from such authorized users. In the event Horizons 3e's operations in the 12.20-12.75 GHz band cause harmful interference to any authorized service operating in accordance with the Table of Frequency Allocations, Horizons-3 License must cease operations immediately upon notification of such interference and must immediately inform the Commission, in writing, of such an event.

7. Horizons-3 License's request for a waiver of the requirement in section 25.140 of the Commission's rules, 47 CFR § 25.140, to provide an interference analysis for the Appendix 30B frequencies of 10.85-10.95 GHz, 11.2-11.45 GHz, and 12.92-13.25 GHz is GRANTED.<sup>7</sup> We agree with Horizons-3 License that at 169.0° E.L., Horizons 3e will be at least 32 degrees from any U.S. Appendix 30B filing covering the 10.85-10.95 GHz 11.2-11.45 GHz, and 12.92-13.25 GHz frequencies, and that this will provide sufficient orbital separation to ensure that Horizons 3e does not significantly degrade the interference environment for any other U.S. Appendix 30B location.
8. Horizons-3 License's request for a waiver of section 25.210(f), 47 CFR § 25.210(f) of the Commission's rules, in connection with Horizons 3e's use of the 10.85-10.922 GHz and 11.523-11.577 GHz bands is GRANTED. Section 25.210(f) requires that FSS space stations employ full frequency re-use either through orthogonal polarization in the same beam and/or the use of spatially independent beams. The purpose of the rule is to ensure that space stations maximize the use of the spectrum. Horizons-3 License states that the launch mass and power constraints on the satellite would have been exceeded had Horizons-3 License included the necessary hardware that would have permitted full frequency reuse in these bands, and that this spectrum consists of only 3.6% of Horizons-3 Licensee's total bandwidth. Granting Horizons-3 License a waiver of section 25.210(f) would not prevent other licensees' use of the same spectrum through orthogonal polarization, preserving the maximum utilization of the spectrum.
9. Horizons 3's request for a 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 fixed-satellite service is limited to international inter-continental systems, is GRANTED. Horizons 3e's use of 5850-5853.5 MHz (Earth-to-space) for a command link from a U.S. earth station is an unpaired Earth-to-space link, and thus cannot comply with US245. Use of the 5850-5853.5 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 Horizons 3e as a point of communication in this band. Horizons 3 must not claim protection from radiolocation service transmitting stations operating in accordance with footnote G2.
10. The operation of Horizons 3e 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 Horizons-3 License coordinates any non-conforming operations with the operations of U.S.-licensed geostationary orbit space stations within 6 degrees of the 169.0° E.L. orbital location. The operations of Horizons 3e must also comport with the maximum power limits indicated in its application. Non-conforming operation must also be coordinated with respect to those operations of non-U.S.-licensed space stations within 6 degrees of 169.0° E.L. involving approved communications with U.S.-licensed earth stations.
11. Horizons-3 License's use of the 10.85-10.95 GHz (space-to-Earth), 11.2-11.45 GHz (space-to-Earth), and 12.92-13.25 GHz (space-to-Earth) 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.

<sup>7</sup> See Letter from Susan H. Crandall Associate General Counsel, Intelsat Corporation, to Marlene H. Dortch, Secretary, FCC, IBFS File No. SAT-LOA-20151202-00080 (filed April 11, 2016). This letter included a supplement to the application and a revised engineering statement.

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12. Horizons-3 License's use of the 10.85-11.7 GHz 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.
13. Horizons-3 License's use of the 10.85-11.7 GHz and 12.92-13.25 GHz frequency bands is limited to international operations in accordance with footnote NG52 to the United States Table of Frequency Allocations, 47 CFR § 2.106 NG52.
14. Operations of Horizons 3e in the 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. 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 Horizons 3e 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.
16. 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 footnote US356 the United States Table of Frequency Allocations, 47 CFR § 2.106, US356.
17. Operations of any earth station in the United States and its possessions communicating with the Horizons 3e 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 Horizons 3e 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.
18. Operations of any earth station in the United States and its possessions communicating with the Horizons 3e 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, *inter alia*, 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 Horizons 3e 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, *inter alia*, 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.
19. Horizons 3e must begin providing service at the 169.0° E.L. orbital location in the 3700-4200 MHz (space-to-Earth), 5925-6425 MHz (Earth-to-space), 10.85-11.7 GHz, 12.5-12.75 (space-to-Earth), and 14.0-14.25 GHz ((Earth-to-space) frequency bands before the satellite it is replacing, Intelsat 805 (Call sign S2404),

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discontinues service at the 169.0° E.L. orbital location. Failure to meet this milestone will render this authorization to operate in these frequency bands NULL and VOID.<sup>8</sup>

20. Horizons-3 License seeks to operate Horizons 3e in the 10.85-11.7 GHz (space-to-Earth), 12.2-12.25 GHz (space-to-Earth), 12.92-13.25 GHz (Earth-to-space), and 13.75-13.997 GHz frequency bands that were not authorized on either the Intelsat 805 or Intelsat 8 space stations, thus, Horizons-3 License was required to file a bond for the additional frequencies it seeks to include in the Horizons 3e space station, pursuant to Section 25.165 of the Commission's rules, 47 CFR § 25.165.<sup>9</sup> Accordingly, this grant of authority in the 10.85-11.7 GHz (space-to-Earth), 12.2-12.25 GHz (space-to-Earth), 12.92-13.25 GHz (Earth-to-space), and 13.75-13.997 GHz frequency bands will become NULL and VOID, with no further action on the Commission's part if Horizons-3 Licensee has not been launched to and commenced operations at the 169.0° E.L. orbital location by July 6, 2021.
21. The license term for the space station is 15 years and will begin on the date that Horizons-3 License certifies to the Commission that Horizons 3e has been successfully placed into orbit and its operations fully conform to the terms and conditions of this authorization. Horizons-3 License is directed to file its certification of commencement of operation with the Commission within five business days of Horizons 3e being placed into operation at the 169.0° E.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 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 25, 2018	
<b>Term Dates</b>	<b>From:</b> See conditions	<b>To:</b> See conditions
<b>Approved:</b>	 Stephen J. Duall Chief, Satellite Policy Branch	

<sup>8</sup> This condition originally included the 12.25-12.5 GHz and 14.25-14.5 GHz frequency bands that were used on the Intelsat 8 space station (Call sign S2460), however, due to an emergency deorbit of Intelsat 8 on December 26, 2016, Horizons-3 License would not be able to fulfill its continuity of service obligation in these frequencies prior to the launch of Horizons 3e, which is scheduled for the third quarter of 2018. See Letter from Cynthia J. Grady, Regulatory Counsel, Intelsat Corporation, to Marlene H. Dortch, Secretary, FCC, IBFS File No. SAT-MOD-20151021-00073 (filed Dec. 28, 2016). The emergency deorbit of Intelsat 8 constituted an unforeseen circumstance beyond Intelsat's control, and we find the public interest would be served by removing these frequencies from this condition.

<sup>9</sup> On August 2, 2016, Horizons-3 License filed the bond for Horizons 3e with the Commission in the amount of \$3,000,000, pursuant to the procedures set forth in Public Notice, DA 03-2602, 18 FCC Rcd 16283 (2003).

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>	202-719-7207
<b>Street:</b>	1776 K Street, NW	<b>E-Mail:</b>	jhindin@wileyrein.com
<b>City:</b>	Washington	<b>State:</b>	DC
<b>Country:</b>	USA	<b>Zipcode:</b>	20006-3006
<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?</p> <p><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).</p> <p><input type="radio"/> Governmental Entity    <input type="radio"/> Noncommercial educational licensee</p> <p><input type="radio"/> Other (please explain):</p>	
<p>17d.</p> <p>Fee Classification BFY – Space Station Modification (Geostationary)</p>	
<p>18. If this filing is in reference to an existing station, enter:</p> <p>(a) Call sign of station: S2947</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:</p> <p>(a) Date pending application was filed:</p> <p>(b) File number: SATMOD2017011300005</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     N/A

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 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?  Yes  No  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.

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.)

Horizons-3 License LLC, pursuant to Section 25.117 of the rules of the Federal Communications Commission, hereby seeks to modify the authorization for the Horizons 3e satellite (Call Sign S2947).

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  
Assoc. 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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