

S2850 SAT-RPL-20111222-00245 IB2011005209
Intelsat License LLC
INTELSAT 19



*with conditions

File # SAT-RPL-20111222-00245

Call Sign S2850 Grant Date 05/25/12

(or other identifier)

From see conditions To: Term Dates see conditions

Approved: Stephey J. Duall

Stephey J. Duall
Chief, Satellite Policy Branch

Approved by OMB
3060-0678

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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 to Launch and Operate Intelsat 19, A Replacement Satellite, at 166.0 E.L.

1-8. Legal Name of Applicant			
Name:	Intelsat License LLC	Phone Number:	202-944-7848
DBA Name:		Fax Number:	202-944-7870
Street:	c/o Intelsat Corporation 3400 International Drive, N.W.	E-Mail:	susan.crandall@intelsat.com
City:	Washington	State:	DC
Country:	USA	Zipcode:	20008 -3006
Attention:	Susan H Crandall		

Attachment to Grant
IBFS File No. SAT-RPL-20111222-00245
Call Sign S2850

The application of Intelsat License LLC (Intelsat) for authority to construct, launch and operate a C-/Ku-band space station, to be known as Intelsat 19, at the 166.0° E.L. orbital location, IBFS File No. SAT-RPL-20111222-00245, as supplemented, IS GRANTED.¹ Accordingly, Intelsat is granted authority to operate Intelsat 19 at the 166.0° E.L. orbital location to provide Fixed-Satellite Services (FSS) in the 3700-4200 MHz (space-to-Earth), 5925-6425 MHz (Earth-to-space), 12.25-12.75 GHz (space-to-Earth), and 14.0-14.5 GHz (Earth-to-space) frequency bands and to conduct telemetry, tracking, and command operations using the center frequencies of 14.0005 GHz and 14.003 GHz (Earth-to-space) and 12.2535 GHz, 12.254 GHz, 12.256 GHz and 12.2565 GHz (space-to-Earth). This authorization shall be in accordance with the technical specifications set forth in Intelsat's application, Federal Communications Commission (Commission) rules not waived herein, and is subject to the following conditions:

1. Intelsat shall 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 shall be held responsible for all cost-recovery fees associated with ITU filings. We also note that 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, by successfully completing coordination agreements. 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 C.F.R. § 25.111(b).
2. Intelsat is obliged to comply with the applicable laws, regulations, rules, and licensing procedures of any country in which it seeks to provide service.
3. Intelsat shall operate Intelsat 19 at the 166.0° E.L. orbital location in compliance with all existing or future coordination agreements for this location.
4. While at the 166.0° E.L. orbital location, Intelsat shall maintain Intelsat 19 with an east/west longitudinal station-keeping tolerance of +/- 0.05 degrees.
5. Intelsat's request for a waiver of Section 25.210(a)(3) of the Commission's rules, 47 C.F.R. § 25.210 (a)(3), IS GRANTED. Section 25.210(a)(3) requires all FSS space stations used for domestic service in the 3700-4200 MHz and 5925-6425 MHz bands to be capable of switching polarization sense upon ground command. The Commission requires polarity-switching capability for two reasons: (1) to provide U.S.-licensed satellites with the flexibility to operate at different orbital locations, and (2) to mitigate potential interference between adjacent fixed-satellite systems transmitting analog television signals. This waiver grant is based upon a finding that the ability to switch polarization is not currently necessary to protect other satellites at adjacent orbital locations from harmful interference, because there is no co-frequency C-band space station operating within two degrees of Intelsat's proposed location. Intelsat states that the nearest co-frequency C-band space station is Intelsat 5 at 169.0° E.L.² As a condition of granting this waiver, Intelsat must accommodate future satellite networks that are compliant with Section 25.210(a)(3). Further, Intelsat must operate Intelsat 19 pursuant to any existing or future coordination agreements for this location.

¹ The application was placed on Public Notice as accepted for filing on February 10, 2012. See *Policy Branch Information, Satellite Space Applications Accepted for Filing*, Public Notice, Report No. SAT-00843, (IBFS File No. SAT-RPL-20111211-00245). Intelsat filed a supplemental letter stating that it no longer seeks regular Commission authorization to operate Intelsat 19 in the 12.25-12.75 GHz frequency band for FSS in Region 2. See Letter from Susan H. Crandall Assistant General Counsel, Intelsat Corp., to Marlene H. Dortch, Secretary, FCC, dated May 8, 2012.

² Legal Narrative at 5.

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6. Intelsat's request for a waiver of Section 25.210(i)(1) of the Commission's rules, 47 C.F.R. § 25.210(i)(1), IS GRANTED. Section 25.210(i)(1) requires that satellites be designed to provide a cross-polarization isolation such that the ratio of the on-axis co-polar gain to the on-axis cross-polar gain of the antenna in the assigned frequency band will be at least 30 dB within its primary coverage area. Intelsat states that Intelsat 19 does not meet the 30 dB requirement within a limited portion of the coverage areas of the Intelsat 19's West Hemi, North East Pacific and South West Pacific transmit beams.³ Intelsat states that the level of isolation of the non-compliant Intelsat 19 beams is in excess of 26 dB.⁴ Intelsat reports that this level was the best that the satellite manufacturer could achieve without causing excessive degradation in the co-polarized gain of the beam and/or in the size of its coverage area.⁵ We agree that waiver in this instance will not produce a significant increase in interference, except to the applicant itself. As a condition of the waiver, Intelsat shall claim no more protection from interference from other licensed radio-communication systems operating in accordance with the Commission's rules than if its antennas met Section 25.210(i) of the rules.

7. This grant does not authorize Intelsat 19 to use the 12.25-12.75 GHz frequency band is not authorized in International Telecommunication Union (ITU) Region 2.

8. Operations of Intelsat 19 to, from, or within the United States shall comply with the power levels specified in Section 25.212 of the Commission's rules, 47 C.F.R. § 25.212, unless Intelsat coordinates any operations using power levels exceeding the levels in Section 25.212 with all potentially affected adjacent satellites within 6 degrees orbital separation of the 166.0° E.L. orbital location. Intelsat shall inform the Commission of the power levels it has coordinated. In addition, Intelsat must inform all affected earth station operators that Section 25.220 of the Commission's rules applies to operations that exceed the power levels specified in Section 25.212. In no event shall the uplink power density level of Intelsat 19's digital carriers exceed -38.7 dBW/Hz and the downlink EIRP density of such carriers exceed -32 dBW/Hz for the C-band. Further, in no event shall the uplink power density of Intelsat 19's digital carriers exceed -45 dBW/Hz and the downlink EIRP density of such carriers exceed -20 dBW/Hz for the Ku-band.

9. Intelsat-19 must begin providing service at the 166.0° E.L. orbital location in the 3700-4200 MHz (space-to-Earth), 5925-6425 MHz (Earth-to Space), 12.25-12.75 GHz (space -to-Earth), and 14.0-14.5 GHz (Earth-to-space) frequency bands before the satellite it is replacing, Intelsat 8 (Call Sign S2460), discontinues service at the 166.0° E.L. orbital location.⁶ Failure to meet this milestone shall render this authorization to operate in these frequency bands NULL and VOID.

10. The license term for the space station is 15 years and will begin on the date that Intelsat certifies to the Commission that Intelsat 19 has been successfully placed into orbit and its operations fully conform to the terms and conditions of this authorization. Intelsat is directed to file such certification within five business days of Intelsat 19 being placed into operation at the 166.0° E.L. orbital location.

³ Legal Narrative at 3; Engineering Statement at pages 5 and 6, and Exhibits 5D-1 through 5D-3.

⁴ Legal Narrative at 4.


⁵ *Id.*

⁶ Intelsat 8 (Call Sign 2460) was launched in November 1998. See *PanAmSat Licensee Corp. Application for Authority to Construct, Launch and Operate a Hybrid International Communications Satellite*, 14 FCC Rcd 2719 (1998); *Policy Branch Information: Actions Taken*, Report No. SAT-00358, DA 06-980, File No. SAT-MOD-20060228-00017 (May 5, 2006) (Public Notice). At the time of launch, Intelsat 8 was named PAS-8 for commercial purposes, but PAS-5 for FCC filings. In 2007, Intelsat filed a letter notifying the Commission of New Space Station Names at which time PAS-8/PAS-5 (Call Sign S2460) was renamed Intelsat 8. See Letter from Susan Crandall, Assistant General Counsel, Intelsat Corp., to Marlene H. Dortch, Secretary, FCC, dated Jan. 8, 2007.

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11. Intelsat is afforded 30 days from the date of release of this grant and authorization to decline this authorization as conditioned. Failure to respond within this period will constitute formal acceptance of the authorization as conditioned.

12. This action is issued pursuant to Section 0.261 of the Commission's rules on delegated authority, 47 C.F.R. § 0.261, and is effective immediately. Petitions for reconsideration under Section 1.106 of the Commission's rules or applications for reconsideration under Section 1.115 of the Commission's rules, 47 C.F.R. §§ 1.106,1.115, may be filed within 30 days of the public notice indicating that this action was taken.

 GRANTED* International Bureau *with conditions	File # <u>SAT-RPL-20111222-00245</u>
	Call Sign <u>S2850</u> Grant Date <u>05/25/12</u> (or other identifier)
	From <u>see conditions</u> Term Dates <u>see conditions</u> To: <u>conditions</u>
	Approved: <u>Stephen J. Duall</u> 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:	20006 -
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 checked="" type="radio"/> b10. Replacement Satellite Application – no new frequency bands</p> <p><input 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 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

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.

Yes No

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 25.114 of the rules of Federal Communications Commission, hereby applies to launch and operate a replacement C/Ku-band satellite, to be known as Intelsat 19, at the 166.0 E.L. orbital location.

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) Limited Liability Company

45. Name of Person Signing
Susan H. Crandall

46. Title of Person Signing
Asst. General Counsel, Inelsat 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).

Completed Schedule S

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THE FOREGOING NOTICE IS REQUIRED BY THE PAPERWORK REDUCTION ACT OF 1995, PUBLIC LAW 104–13, OCTOBER 1, 1995, 44 U.S.C. SECTION 3507.

May 8, 2012

FILED ELECTRONICALLY VIA IBFS

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



Re: Application for Authority to Launch and Operate Intelsat
19, a Replacement Satellite, at 166.0° E.L.;
File No. SAT-RPL-20111222-00245; Call Sign S2850

Dear Ms. Dortch:

Intelsat License LLC (“Intelsat”) files this letter pursuant to Section 1.65 of the Federal Communications Commission’s (“FCC” or “Commission”) rules¹ to provide updated information regarding the above-referenced pending application for authority to launch and operate Intelsat 19 (call sign S2850) at 166.0° E.L.² Intelsat 19 currently is scheduled to be launched on May 31, 2012, and will replace the Intelsat 8 satellite (call sign S2460), which is currently operating at 166.0° E.L.³

In the Intelsat 19 Application, Intelsat requested authority to operate Intelsat 19 using the same Fixed-Satellite Service (“FSS”) frequencies as the Intelsat 8 satellite it is replacing.⁴ Intelsat no longer seeks permanent Commission authorization to operate Intelsat 19 in the 12250 – 12750 MHz frequency band for FSS in Region 2.⁵ All other technical parameters of the pending application remain unchanged. Intelsat respectfully requests that the Commission continue to process the pending Intelsat 19 Application in light of this updated information.

¹ 47 C.F.R. § 1.65.

² See *Policy Branch Information; Satellite Space Applications Accepted for Filing*, Report No. SAT-00843, File No. SAT-RPL-20111222-00245 (Feb. 10, 2012) (Public Notice) (“Intelsat 19 Application”).

³ See *PanAmSat Licensee Corp. Application for Authority to Construct, Launch and Operate a Hybrid International Communications Satellite*, 14 FCC Rcd 2719 (1998); *Policy Branch Information; Actions Taken*, Report No. SAT-00358, DA 06-980, File No. SAT-MOD-20060228-00017 (May 5, 2006) (Public Notice).

⁴ See Intelsat 19 Application at 5.

⁵ Intelsat will seek temporary authorization to operate in these frequencies in Region 2 if necessary.

Ms. Marlene H. Dortch
May 8, 2012
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Please do not hesitate to contact the undersigned if you have any questions.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "S. Crandall", written in a cursive style.

Susan H. Crandall
Assistant General Counsel
Intelsat Corporation

cc: Stephen Duall
Jay Whaley