

Date & Time Filed: May 11 2007 2:59:43:576PM  
File Number: SAT-MOD-20070511-00071

*IntelSat 602 @ 159EL*

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**APPLICANT INFORMATION**

Enter a description of this application to identify it on the main menu:  
Modification to Relocate INTELSAT 602 to 157 E.L.

1-8. Legal Name of Applicant

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

File # SAT-MOD-20070511-00071



(Call Sign) S2389 Grant Date July 20, 2007  
(or other identifier) Term Dates

From \_\_\_\_\_ To: \_\_\_\_\_  
Approved: *[Signature]*  
*Policy Brewer Chire*

## ATTACHMENT

**INTELSAT 602**  
**Call Sign: S2389**  
**SAT-MOD-20070511-00071**  
**July 20, 2007**

Intelsat North America LLC's (Intelsat North America's) request, IBFS File No. SAT-MOD-20070511-00071,<sup>1</sup> for modification of the INTELSAT 602 satellite IS GRANTED. Accordingly, Intelsat North America IS AUTHORIZED to operate the INTELSAT 602 satellite in the following C-band frequencies (3625-4200 MHz and 5850-6425 MHz) and Ku-band frequencies (10.95-11.2 GHz and 11.45-11.7 GHz and 14.0-14.5 GHz) at the 157° E.L. orbital location, in accordance with the terms, conditions, and technical specifications set forth in its application, this Attachment and the Federal Communications Commission's (Commission) Rules.

1. While at the 157° E.L. orbital location, Intelsat North America shall maintain the INTELSAT 602 spacecraft with an east/west longitudinal station-keeping tolerance of 0.05 degrees.
2. Intelsat North America shall operate the INTELSAT 602 satellite at 157° E.L in compliance with all existing coordination agreements.
3. Intelsat North America's request that the Part 25 waivers<sup>2</sup> that were originally granted to the INTELSAT 602 satellite continue to apply at the 157° E.L. orbital location IS GRANTED.
4. Intelsat North America requested a waiver of requirements of Section 25.114 (d)(3) with respect to the presentation of coverage patterns of the telemetry, command and ranging (TC&R) antenna patterns. Our review shows that Intelsat has provided TC&R antenna pattern in another format which is acceptable.


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<sup>1</sup> Intelsat North America LLC, Application for Modification of Authorization to Relocate INTELSAT 602 from 150.5° E.L. to 157° E.L. (File No. SAT-MOD-20070511-00071) (filed May 11, 2007). The modification was accepted for filing. Public Notice, Satellite Space Applications Accepted for Filing, Report No. SAT-00448 (rel. June 1, 2007). No comments were filed. Intelsat North America was previously granted authority conduct TT&C operations during the drift of the INTELSAT 602 satellite to the 157° E.L. orbital location and authority to temporarily operate the satellite at the 157° E.L. orbital location. See Intelsat North America LLC's Request for Special Temporary Authority for INTELSAT 602 (File Nos. SAT-STA-20070605-00077 and SAT-STA-20070613-00083) (DA 07-2750).

<sup>2</sup> See Applications of Intelsat LLC for Authority to Operate and Further Construct, Launch, and Operate C-Band and Ku-Band Satellites that Form a Global Communications System in Geostationary Orbit, 15 FCC Rcd 15460, 15529 (Appendix C) *Memorandum Opinion and Order and Authorization* (2000) ("*Intelsat August 2000 Licensing Order*"), recon. denied, 15 FCC Rcd 25234 (2000)(*Order on Reconsideration*). In the *Intelsat August 2000 Licensing Order*, the INTELSAT 602 satellite was granted the following Part 25 waivers, 25.202 (g), 25.210 (a) (1), 25.210 (a) (3), 25.210 (c), 25.210 (i), and 25.211(a) at the 62° E.L. orbital location.

Therefore Intelsat North America's waiver request of Section 25.114(d)(3) IS GRANTED.

5. While at the 157° E.L. orbital location, Intelsat has indicated that the satellite will operate at inclined orbit, pursuant to Section 25.280 of the Commission's rules.
6. Intelsat North America is afforded thirty days from the date of this action to decline this authorization as conditioned. Failure to respond within this period will constitute formal acceptance of the authorization as conditioned.
7. This action is used pursuant to Section 0.261 of the Commission's rules on delegated authority, 47 C.F.R. § 0.261, and is effective upon grant. Petitions for reconsideration under Section 1.106 or applications for review 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 date of the public notice indicating that this action was taken.

 <b>GRANTED</b> International Bureau <i>w/conditions</i>	File # <u>SAT-MOD-20070511-00071</u>
	Call Sign <u>S2389</u> Grant Date <u>July 20, 2007</u> (or other identifier)
	Term Dates From _____ To: _____
	Approved: <u><i>[Signature]</i></u> Policy Branch Chief

9-16. Name of Contact Representative

**Name:** Intelsat North America LLC **Phone Number:** 202-944-7848  
**Company:** **Fax Number:** 202-944-7870  
**Street:** 3400 International Drive, N.W. **E-Mail:** susan.crandall@intelsat.com  
**City:** Washington **State:** DC  
**Country:** USA **Zipcode:** 20008-3006  
**Attention:** Susan H. Crandall **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

<p>17c. Is a fee submitted with this application?  <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).  <input type="radio"/> Governmental Entity    <input type="radio"/> Noncommercial educational licensee  <input type="radio"/> Other (please explain):</p>	
<p>17d.          Fee Classification    BFY – Space Station Modification (Geostationary)</p>	
<p>18. If this filing is in reference to an existing station, enter:          (a) Call sign of station:          S2389</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:          (a) Date pending application was filed:            (b) File number:          SATMOD2005051200098</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

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

**BASIC QUALIFICATIONS**

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

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

<p>41. By checking Yes, the undersigned certifies, that neither applicant nor any other party to the application is subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti-Drug Act of 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. See 47 CFR 1.2002(b) for the meaning of "party to the application" for these purposes.</p>	<p style="text-align: right;"> <input checked="" type="radio"/> Yes      <input type="radio"/> No         </p>
<p>42a. Does the applicant intend to use a non-U.S. licensed satellite to provide service in the United States? If Yes, answer 42b and attach an exhibit providing the information specified in 47 C.F.R. 25.137, as appropriate. If No, proceed to question 43.</p>	<p style="text-align: right;"> <input type="radio"/> Yes      <input checked="" type="radio"/> No         </p>
<p>42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued, what administration has coordinated or is in the process of coordinating the space station?</p>	<p>43. Description. (Summarize the nature of the application and the services to be provided). (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)</p> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p>Intelsat North America LLC hereby requests modification of the license for INTELSAT 602 to relocate the satellite from 150.5 E.L to 157 E.L. and to operate at that orbital location in inclined orbit mode until the satellite is de-orbited.</p> </div> <p>Attachment</p>

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  
Asst. 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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