

S2469 SAT-STA-20110923-00185
Intelsat License LLC
Galaxy 26

IE2011004369

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File Number: SAT-STA-20110923-00185
Callsign:

File # SAT- STA- 20110923- 00185
Call Sign S2469 Grant Date 10/06/11
(or other identifier)
Term Dates period of
From 10/08/11 To: 60 days
Approved: *Stephen J. Duall*
Stephen J. Duall
Chief, Satellite Policy Branch

Approved by OMB
3060-0678



GRANTED*
International Bureau
*with conditions

FEDERAL COMMUNICATIONS COMMISSION
APPLICATION FOR SPACE STATION SPECIAL TEMPORARY AUTHORITY

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APPLICANT INFORMATION

Enter a description of this application to identify it on the main menu:
Request for Further Extension of Special Temporary Authority to Drift Galaxy 26 to and Operate at 50.0 E.L. (Call Sign S2469)

I. 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
Intelsat License LLC
IBFS File No. File No. SAT–STA–20110923–00185
Call Sign S2469**

The request of Intelsat License LLC (formerly Intelsat North America LLC) (Intelsat), IBFS File No. SAT–STA–20110923–00185, is GRANTED.¹ Accordingly, Intelsat is authorized, for a period of 60 days commencing on October 8, 2011, to continue to conduct Telemetry, Tracking, and Telecommand (TT&C) operations with the Galaxy 26 space station (Call Sign S2469) necessary to operate the Galaxy 26 space station at the 50.0° E.L. orbital location, using the following C-band frequencies: 4196.5 MHz (vertical polarization/space-to-Earth) or 4199.5 MHz (vertical polarization/space-to-Earth); 6315.0 MHz (vertical polarization/Earth-to-space) and 4090.0 MHz (horizontal polarization/space-to-Earth); 5926.5 MHz (right-hand circular polarization/Earth-to-space), and 6411.0 MHz (right-hand circular polarization/Earth-to-space) Additionally, Intelsat is authorized to continue to operate the Galaxy 26 space station to provide Fixed Satellite Services (FSS) in the Ku-band frequencies of 14000–14500 MHz and 11700–12200 MHz at the 50.0° E.L. orbital location. These operations are authorized in accordance with the technical specifications set forth in Intelsat’s application and the Commission’s rules, and are subject to the following conditions:

1. All operations shall be on an unprotected and non-harmful interference basis, *i.e.*, Intelsat shall not cause harmful interference to, and shall not claim protection from interference caused to it by, any other lawfully operating station.
2. In the event of any harmful interference caused by Galaxy 26’s operations during operation at the 50.0° E.L. orbital location, Intelsat shall cease operations immediately upon notification of such interference, and shall inform the Commission, in writing, immediately of such an event.
3. Any action taken or expense incurred as a result of operations pursuant to this special temporary authority is solely at Intelsat’s own risk.
4. Intelsat shall maintain full operational control of Galaxy 26 at all times.
5. While at the 50.0° E.L. orbital location, Intelsat shall maintain the Galaxy 26 space station with an east/west longitudinal station-keeping tolerance of +/- 0.05 degrees.

¹ Intelsat has also pending an application to modify the authorization for Galaxy 26 to permit it to operate at 50.0° E.L., IBFS File No. SAT-MOD-20110420-00073, which was placed on Public Notice on May 6, 2011. *See Policy Branch Information, Satellite Space Station Applications Accepted for Filing*, Public Notice, Report No. SAT-00775 (rel. May 6, 2011). In response to the Public Notice, comments were filed on June 6, 2011, by Al Yah Satellite Communications Company PrJSC (Yahsat) and New Skies Satellites B.V. (New Skies). In their comments, Yahsat and New Skies express concern that operations of Galaxy 26 at the 50.0° E.L. orbital location in the 11.7-12.2 GHz frequency band (space-to-Earth) will result in harmful interference to space stations operating, or soon-to-be operating, in the Broadcasting-Satellite Service at nearby orbital locations. Accordingly, Yahsat and New Skies ask that conditions be placed on any grant of authority in order to prevent harmful interference to such nearby BSS space stations. In addition, Intelsat provided supplemental information on June 9, 2011, implying that service to existing U.S. government end-users would be negatively impacted if Galaxy 26 were not authorized to move from its current position of 50.75° E.L. by June 13, 2011. This supplemental information was served on Yahsat and New Skies. We find that the conditions contained in paragraphs 1, 2, and 6 below address the concerns raised by Yahsat and New Skies during the limited 60-day temporary authority granted herein to continue to operate Galaxy 26 at 50.0° E.L. Galaxy 26 is currently operating at the 50.0° E.L. orbital location pursuant to an earlier 60-day STA, *See Policy Branch Information; Actions Taken*, Public Notice, Report No. SAT-00800, IBFS File No. SAT-STA-20110727-00137 (rel. Aug. 12, 2011). That STA was an extension of the 60-day STA granted to Intelsat to drift Galaxy 26 from the 50.75° E.L. orbital location to the 50.0° E.L. orbital location and operate it at that location under the same parameters as the instant STA grant, IBFS File No. SAT-STA-201110314-00053. *See Policy Branch Information; Actions Taken*, Public Notice, Report No. SAT-00787, (rel. June 17, 2011).

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6. Intelsat’s operation of the Galaxy 26 satellite in the FSS in the 11.7 to 12.2 GHz frequency band at the 50.0° E.L. orbital location is subject to the following conditions:

- a. Intelsat must operate Galaxy 26 on an unprotected and non-harmful interference basis with respect to Broadcasting-Satellite Service (BSS) operations in Regions 1 & 3 in accordance with Article 4.4 of the ITU Radio Regulations.
- b. Intelsat must operate Galaxy 26 in accordance with the BSS PFD limits specified in the ITU Radio Regulations, Appendix 30, Annex 1, Sections 1(a) and 4, for protection of co-frequency BSS and terrestrial operations. As used in this condition, the term “operations” refers to all actual – rather than anticipated or planned – operations, and Galaxy 26 will be considered within the specified BSS PFD limits if there are no operations to interfere with or if Galaxy 26 operates below the BSS PFD limits specified in Appendix 30 above.
- c. Intelsat shall schedule all operations via Galaxy 26 based on information about actual operations obtained from the operators of space stations operating in conformance with the ITU Radio Regulations, Appendix 30, BSS plan within 3 degrees of the 50.0° E.L. orbital location, in order to prevent harmful interference to such operators.

7. Intelsat’s request for continued waiver of Section 25.202(g) of the Commission’s rules, 47 C.F.R. 25.202(g) is GRANTED, as conditioned. Section 25.202(g) requires that “telemetry, tracking and telecommand (TT&C) functions for U.S. domestic satellites shall be conducted at either or both edges of the allocated band(s). Frequencies, polarization, and coding shall be selected to minimize interference into other satellite networks and within their own satellite system.” Intelsat seeks a waiver of this rule to operate Galaxy 26’s back-up command uplink at 6411 MHz, its ranging uplink at 6315 MHz, and its ranging downlink at 4090 MHz - none of which are at the band edges - for regular on-station TT&C communications at the 50.0° E.L. orbital location. This waiver grant is based upon the following findings:

- (a) Due to health issues with Galaxy 26, Intelsat can only operate the space station’s back-up command uplink, ranging uplink, and ranging downlink at the aforementioned frequencies;
- (b) Intelsat needs to operate command and ranging with Galaxy 26 in order to insure safe operation of the space station;
- (c) Intelsat will coordinate operations of Galaxy 26 with other space stations to avoid interference, and will operate Galaxy 26 on a non-interference basis.

As a condition of the grant of this waiver, Intelsat shall coordinate TT&C operations of Galaxy 26 at the 50.0° E.L. orbital location with all potentially affected operators of other radiocommunication systems. In the absence of a coordination agreement regarding these TT&C operations, Intelsat’s TT&C operations shall be on a non-harmful interference basis (*i.e.*, Intelsat shall not cause harmful interference to, and shall not claim protection from interference caused to it by, any other lawfully operating radiocommunication system). Additionally, Intelsat must accommodate future space station networks that are compliant with Section 25.202(g) of the Commission’s rules.

8. This authorization is issued on the understanding that this grant is not an approval of any specific agreement entered into by Intelsat, its subsidiaries, and affiliates, nor of any specific provision of any such agreement, concerning operation of the Galaxy 26 space station, nor is it an approval of an

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Call Sign S2469**

agreement concerning any related matter, nor of any specific provision of any such agreement concerning any related matter.

9. This authorization is issued on the understanding that this grant does not in any way express a view concerning, or agreement as to, the validity or lack of validity of any ITU filing at or within the vicinity of the 50.0° E.L. orbital location.

10. This authorization is also issued on the understanding that the United States remains the licensing administration, for purposes of ITU Radio Regulation 18.1, for the Galaxy 26 space station, and that its operations at 50.0° E.L. are pursuant to ITU Radio Regulation 4.4.


11. 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.

12. Grant of this authorization is without prejudice to any determination that the Commission may make regarding Intelsat's pending application for permanent operations of the Galaxy 26 space station at the 50.0° E.L. orbital location (IBFS File No. SAT-MOD-20110420-00073).

13. This authorization is not one relating to an "activity of a continuing nature" for purposes of Section 1.62 of the Commission's rules and Section 558(c) of the Administrative Procedures Act. Continuation of operations beyond the term of this authorization will require prior affirmative authorization by the FCC.

14. 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.

15. These actions are issued pursuant to Section 0.261 of the Commission's rules on delegated authority, 47 C.F.R. § 0.261, and are effective immediately. 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.

 GRANTED* International Bureau *with conditions	File # <u>SAT-STA-20110923-00185</u>
	Call Sign <u>S2469</u> Grant Date <u>10/06/11</u> (or other identifier)
	From <u>10/08/11</u> Term Dates <u>period of 60 days</u> To: _____
	Approved: <u>Stephen J. Duall</u> Stephen J. Duall Chief, Satellite Policy Branch

2. Contact	
Name: Intelsat License LLC	Phone Number: 202-944-7848
Company: Intelsat Corporation	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
(If your application is related to an application filed with the Commission, enter either the file number or the IB Submission ID of the related application. Please enter only one.)	
3. Reference File Number SATMOD2011042000073 or Submission ID	
4a. 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 checked="" type="radio"/> Governmental Entity <input type="radio"/> Noncommercial educational licensee <input type="radio"/> Other (please explain):	
4b. Fee Classification CRY - Space Station (Geostationary)	
5. Type Request	
<input type="radio"/> Change Station Location	<input checked="" type="radio"/> Extend Expiration Date
	<input type="radio"/> Other
6. Temporary Orbit Location	
7. Requested Extended Expiration Date	
	2011-12-06 00:00:00.0

8. Description (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 herein requests an additional 60-day extension, from October 8, 2011 through December 6, 2011, of the Special Temporary Authority previously granted to Intelsat to drift Galaxy 26 from 50.75 E.L. to 50.0 E.L. and operate it at 50.0 E.L. in the C- and Ku-bands pursuant to the ITU filings of the Turkish Administration.

9. 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

10. Name of Person Signing
Susan H. Crandall

11. Title of Person Signing
Asst. General Counsel, Intelsat Corporation

12. Please supply any need attachments.

Attachment 1: STA Request

Attachment 2:

Attachment 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).

FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT

The public reporting for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the required data, and completing and reviewing the collection of information. If you have any comments on this burden estimate, or how we can improve the collection and reduce the burden it causes you, please write to the Federal Communications Commission, AMD-PERM, Paperwork Reduction Project (3060-0678), Washington, DC 20554. We will also accept your comments regarding the Paperwork Reduction Act aspects of this collection via the Internet if you send them to PRA@fcc.gov. PLEASE DO NOT SEND COMPLETED FORMS TO THIS ADDRESS.

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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.

September 23, 2011

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



Re: Request for Further Extension of Special Temporary Authority for
Galaxy 26
Call Sign: S2469

Dear Ms. Dortch:

Intelsat License LLC ("Intelsat") herein requests an additional 60-day extension – from October 8, 2011 through December 6, 2011 – of the Special Temporary Authority ("STA")¹ previously granted to Intelsat to drift Galaxy 26 from 50.75° E.L. to 50.0° E.L. and operate it at 50.0° E.L. in the C- and Ku-bands pursuant to the ITU filings of the Turkish Administration.² Intelsat also has a pending application to modify the Galaxy 26 license for permanent operation at that location.³

Grant of this STA further extension request is in the public interest because it will allow Intelsat to continue to provide U.S. Government customers with capacity in the Indian Ocean region without risk of harmful interference. As the Commission is aware, there is a shortage of available Ku-band capacity in the Middle East region.⁴ Extending Intelsat's STA to operate Galaxy 26 at 50.0° E.L. helps fulfill critical spectrum needs in this region, thus serving the public interest.

¹ Intelsat has filed this STA request, an FCC Form 159 and an \$860.00 filing fee electronically via the International Bureau's Filing System.

² See *Policy Branch Information; Actions Taken*, Report No. SAT-00800, File No. SAT-STA-20110727-00137 (Aug. 12, 2011) (Public Notice); *Policy Branch Information; Actions Taken*, Report No. SAT-00787, File No. SAT-STA-201110314-00053 (June 17, 2011) (Public Notice). Although Turkey's ITU filings initially did not contain the frequency band 11700-12200 MHz, Turkey has since filed for the band.

³ See *Policy Branch Information, Satellite Space Applications Accepted for Filing*, Report No. SAT-00775, File Nos. SAT-MOD-20110420-00073 (May 6, 2011) (Public Notice).

⁴ See GAO, *Competition, Capacity, and Costs in the Fixed Satellite Services Industry*, Report to Congressional Requesters at 12 (Sept. 2011), available at <http://www.gao.gov/new.items/d11777.pdf> ("GAO Report") (finding that there is less available satellite capacity in the Middle East and Africa than other regions, such as North and South America, Asia, and Western Europe).

Ms. Marlene H. Dortch
September 23, 2011
Page 2

Grant of this STA further extension request will not result in increased risk of harmful interference. As explained in its initial STA request, the reason Galaxy 26 was moved from 50.75° E.L. to 50.0° E.L. was to mitigate interference with respect to the recently-launched Yahsat-1A satellite at 52.5° E.L.⁵ As noted above, at 50.0° E.L., Intelsat will continue to operate Galaxy 26 pursuant to the coordination agreements of the Turkish Administration for that location.⁶ Intelsat plans to seek a meeting with Al Yah Satellite Communications Company PrJSC (“Yahsat”), to be held in the United Arab Emirates as soon as possible, in order to continue discussing the coordination situation. In the meantime, operation of Galaxy 26 at 50.0° E.L. will continue to be conducted on a non-interference, non-protected basis with respect to Yahsat and any other operator of nearby co-frequency satellites. In addition, Intelsat agrees to accept the same conditions that were imposed in its existing STA to operate Galaxy 26 at 50.0° E.L.⁷ These conditions ensure that Yahsat’s current and future operations on Yahsat-1A will not be negatively impacted by Galaxy 26’s continued operation – as they have not been to date.

For the reasons set forth herein, Intelsat respectfully requests that the Commission expeditiously grant this further extension request.

Sincerely,



Susan H. Crandall
Assistant General Counsel
Intelsat Corporation

cc: Bob Nelson
Kathryn Medley
Stephen Duall
Jay Whaley
John Janka, Counsel to YahSat
Daniel Mah, SES

⁵ Yahsat-1A was launched with Intelsat’s New Dawn satellite on April 22, 2011. Yahsat-1A is a C-, Ku-, Ka-band satellite.

⁶ See Letter from Susan H. Crandall, Intelsat, to Marlene H. Dortch, Federal Communications Commission, File Nos. SAT-MOD-20110420-00073 and SAT-STA-20110314-00053 (June 8, 2011).

⁷ See *supra* n.2.