

S2469 SAT-STA-20110314-00053 IB2011000761
Intelsat License LLC
Galaxy 26

Date & Time Filed: Mar 14 2011 3:41:56:560PM
File Number: SAT-STA-20110314-00053
Callsign:

Approved by OMB
3060-0678

File # SAT-STA-20110314-00053
Call Sign S2469 Grant Date 06/10/11
(or other identifier) Term Dates period of 60 days
From 06/10/11 To:
Approved: Stephen J. Dwall
Stephen J. Dwall
Chief, Satellite Policy Branch



FEDERAL COMMUNICATIONS COMMISSION
APPLICATION FOR SPACE STATION SPECIAL TEMPORARY AUTHORITY
FOR OFFICIAL USE ONLY

APPLICANT INFORMATION

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

1. Applicant

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

**Attachment to Grant
Intelsat License LLC
IBFS File No. File No. SAT-STA-20110314-00053
Call Sign S2469**

The request of Intelsat License LLC (formerly Intelsat North America LLC) (Intelsat), IBFS File No. SAT-STA-20110314-00053, as supplemented, is GRANTED.¹ Accordingly, Intelsat is authorized, for a period of 60 days commencing on June 10, 2011, to conduct Telemetry, Tracking, and Telecommand (TT&C) operations with the Galaxy 26 space station (Call Sign S2469) necessary to effect the drift of the Galaxy 26 space station from the 50.75° E.L. orbital location to the 50.0° E.L. orbital location and to operate the space station at that 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 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 during the drift to the 50.0° E.L. orbital location and while operating at that 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 the drift to and 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.
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:

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 operate Galaxy 26 at 50.0° E.L.

**Attachment to Grant
Intelsat License LLC
IBFS File No. File No. SAT-STA-20110314-00053
Call Sign S2469**

- 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 operators.
- 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 shall prepare and submit to the Federal Communications Commission, within 15 days following grant of this authorization, the necessary materials for submission to the ITU, pursuant to Article 8.4 of the Radio Regulations, in connection with the operations of the Galaxy 26 space station at the 50.0° E.L. orbital location.

8. 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.

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

**Attachment to Grant
Intelsat License LLC
IBFS File No. File No. SAT-STA-20110314-00053
Call Sign S2469**

10. 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.

11. 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.


12. 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.

13. 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).

14. 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 Procedure Act. Continuation of operations beyond the term of this authorization will require prior affirmative authorization by the FCC.

15. 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.

16. This action is 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-20110314-00053</u>
	Call Sign <u>S2469</u> Grant Date <u>06/10/11</u> (or other identifier)
	Term Dates period of From <u>06/10/11</u> To: <u>60 days</u>
	Approved: <u>Stephen J. Duall</u> Stephen J. Duall Chief, Satellite Policy Branch

2. Contact	
Name:	Intelsat License LLC
Company:	Intelsat License LLC
Street:	c/o Intelsat Corporation
Phone Number:	202-944-7848
Fax Number:	202-944-7870
E-Mail:	susan.crandall@intelsat.com
State:	DC
City:	Washington
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 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 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 checked="" type="radio"/> Change Station Location <input type="radio"/> Extend Expiration Date <input type="radio"/> Other	
6. Temporary Orbit Location	
7. Requested Extended Expiration Date	

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 (f/k/a Intelsat North America LLC) herein requests Special Temporary Authority for 60 days beginning April 15, 2011 to drift Galaxy 26 from 50.75 E.L. to 50.0 E.L., where the satellite will operate in the C- and Ku-bands pursuant to the ITU filings of the Turkish Administration for that location.

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"; 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.

Remember – You are not required to respond to a collection of information sponsored by the Federal government, and the government may not conduct or sponsor this collection, unless it displays a currently valid OMB control number or if we fail to provide you with this notice. This collection has been assigned an OMB control number of 3060-0678.

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.

March 14, 2011

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



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

Dear Ms. Dortch:

Intelsat License LLC (f/k/a Intelsat North America LLC) ("Intelsat") herein requests Special Temporary Authority ("STA")¹ for 60 days beginning April 15, 2011 to drift Galaxy 26 from 50.75° E.L. to 50.0° E.L., where the satellite will operate in the C- and Ku-bands pursuant to the ITU filings of the Turkish Administration for that location.² Intelsat plans shortly to file an application to modify the license for permanent operation at that location.

Intelsat expects to have Galaxy 26 at 50.0° E.L. within a few days of beginning the drift. During the drift, Intelsat will continue operating the satellite's Ku-band communications frequencies, as well as the satellite's TT&C frequencies. The operation of the satellite's Ku-band communications frequencies during the drift is being done to ensure continuity of service to two U.S. Government customers on the satellite that cannot be accommodated on another Intelsat satellite. Intelsat confirms that the only satellite between 50.75° and 50.0° E.L. that operates a Ku-band communications payload is Intelsat 26, which operates at 50.3° E.L. on frequencies that overlap with those of Galaxy 26 in the uplink (14.0-14.5 GHz). Intelsat will internally coordinate the drift of Galaxy 26 to ensure that customers on either satellite are not negatively impacted. The specific TT&C frequencies are as follows:

Primary command: 5926.5 MHz (RHCP) (uplink)
Back-up command: 6411 MHz (RHCP) (uplink)
Telemetry: 4196.5 MHz (V) or 4199.5 MHz (V)
Ranging: 6315 MHz (V) (uplink)
4090 MHz (H) (downlink)

¹ Intelsat has filed this STA request, an FCC Form 159 and an \$830.00 filing fee electronically via the International Bureau's Filing System.

² Although Turkey's ITU filings currently do not contain the frequency band 11700-12200 MHz, Intelsat intends to ask Turkey to file for the band.

Ms. Marlene H. Dortch
March 14, 2011
Page 2

Intelsat requests that the waiver of Section 25.202(g) previously granted Intelsat for Galaxy 26 at 50.75° E.L. continue to apply at 50.0° E.L. At the 50.0° E.L. location, Intelsat will comply with the condition previously imposed on its operation of Galaxy 26's TT&C operations at 50.75° E.L.³

The specific communications payload frequencies are as follows, although, as noted above, only the Ku-band communications frequencies will be operated during the drift:

5925-6425 MHz (uplink)
3700-4200 MHz (downlink)
14000-14500 MHz (uplink)
11700-12200 MHz (downlink)⁴

Grant of this STA 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. The reason Galaxy 26 is moving from 50.75° E.L. to 50.0° E.L. is because of the impending launch of Yahsat-1A to 52.5° E.L.⁵ Once Yahsat-1A is on-station, it likely will interfere with the operations of Galaxy 26 at 50.75° E.L. Moving the latter to 50.0° E.L. prior to Yahsat-1A being brought into service will allow both satellites to operate without harmful interference. Customers on Galaxy 26 will not experience service degradation because they will be tracking the satellite during the drift.

Grant of this STA request will not result in increased risk of harmful interference. As noted above, Intelsat will coordinate the drift with all potentially affected operators in the drift path. Should any interference occur during the drift, Intelsat will take all reasonable steps to eliminate such interference. Once on-station at 50.0° E.L., Intelsat will operate Galaxy 26

³ See Policy Branch Information; Actions Taken, Report No. SAT-00613, File No. SAT-MOD-20090309-00034 (June 19, 2009) (Public Notice).

⁴ Intelsat will continue to comply with the conditions previously imposed on the operation of the Galaxy 26 satellite in the 11700-12200 MHz frequency band. See *id.*

⁵ Yahsat-1A currently is scheduled to be launched with Intelsat's New Dawn satellite on March 31, 2011. Yahsat-1A is a C-, Ku-, Ka-band satellite.

Ms. Marlene H. Dortch
March 14, 2011
Page 3

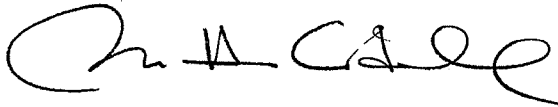
pursuant to the coordination agreements of the Turkish Administration for that location.⁶

Intelsat has assessed and limited the probability of the space station becoming a source of debris as a result of collisions with large debris or other operational space stations. Galaxy 26 will not be located at the same orbital location as another satellite or at an orbital location that has an overlapping station-keeping volume with another satellite.

Further, Intelsat is not aware of any other FCC licensed system, or any other system applied for and under consideration by the FCC, having an overlapping station-keeping volume with Galaxy 26 at 50.0° E.L. Finally, Intelsat is not aware of any system with an overlapping station-keeping volume with Galaxy 26 that is the subject of an ITU filing and that is either in orbit or progressing towards launch.

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

Sincerely,



Susan H. Crandall
Assistant General Counsel
Intelsat Corporation

cc: Bob Nelson
Kathryn Medley
Stephen Duall

⁶ Intelsat expects shortly to reach an agreement with TurkSat authorizing Intelsat to operate a satellite at 50.0° E.L. and will file a copy of such agreement with the FCC.