

S2826 SAT-STA-20110726-00133 IB2011003644  
SES Americom, Inc.

Date & Time Filed: Jul 26 2011 2:43:12:106PM  
File Number: SAT-STA-20110726-00133  
Callsign:



File # SAT-STA-20110726-00133

Call Sign S2826 Grant Date SEPT. 1, 2011  
(or other identifier)

Term Dates  
From: See Attached To: See Attached Approved by OMB  
3060-0678

Approved: [Signature]  
Robert G. Nelson Chief of Staff to Director

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:  
SES-2 (S2826) STA for IOT at 77.25 W.L

I. Applicant

Name:	SES Americom, Inc.	Phone Number:	202-478-7137
DBA Name:		Fax Number:	202-478-7101
Street:	1129 20th Street NW Suite 1000	E-Mail:	daniel.mah@ses.com
City:	Washington	State:	DC
Country:	USA	Zipcode:	20036 -
Attention:	Daniel C.H. Mah		

**Attachment to Grant**  
**Application of SES Americom, Inc. for Special Temporary Authority**  
**IBFS File No. SAT-STA-20110726-00133**

The request of SES Americom, Inc. (SES Americom) for special temporary authority, IBFS File No. SAT-STA-20110726-00133, to perform in-orbit testing (IOT) of the SES-2 space station (Call Sign S2826) at the 77.25° E.L orbital location is granted for a period of 30 days, commencing 12 days after the launch of SES-2. Accordingly, SES Americom is authorized to operate SES-2 for testing purposes only at the 77.25° W.L. orbital location in the following frequency bands only: 3700-4200 MHz (space-to-Earth), 5925-6425 MHz (Earth-to-space), 11.7-12.2 GHz (space-to-Earth), and 14.0-14.5 GHz (Earth-to-space). Additionally, SES Americom is authorized to operate Telemetry, Tracking, and Telecommand (TT&C) in the C- and Ku-bands both to support testing operations at the 77.25° W.L. orbital location, and to effect SES-2's drift to its authorized location of 87° W.L. upon the completion of in-orbit testing, using the following center frequencies: 3700.5 MHz, 4199.5 MHz, 11701.0 MHz, and 12199.0 MHz (space-to-Earth); and 6423.5 MHz and 14499.0 MHz (Earth-to-space). This authorization is granted subject to the technical parameters specified in SES Americom's application, as supplemented, the rules of the Federal Communication Commission (Commission), and the following conditions.

1. All operations at the 77.25° W.L. orbital location and during the drift to the 87° W.L. orbital location shall be on an unprotected and non-harmful interference basis, *i.e.*, SES Americom shall not cause harmful interference to, and shall not claim protection from interference caused to it by, any other lawfully operating radiocommunication system.
2. In the event of any harmful interference as a result of the operations of SES-2 at the 77.25° W.L. orbital location or during its drift to the 87° W.L. orbital location, SES Americom shall cease operations immediately upon notification of such interference and shall inform the Commission immediately, in writing, of such an event.
3. SES Americom shall coordinate the operations of SES-2 with existing geostationary space stations to ensure that no unacceptable interference results from its operations at the 77.25° W.L. orbital location.
4. SES-2's operations at 77.25° W.L. shall be limited to IOT and shall not include the provision of commercial services.
5. SES Americom shall operate only the TT&C frequencies on SES-2 during the space station's drift from the 77.25° W.L. orbital location to the 87° W.L. orbital location.
6. During the in-orbit testing period, SES Americom shall maintain the SES-2 space station within an east/west longitudinal station-keeping tolerance of  $\pm 0.05$  degrees of the 77.25° W.L. orbital location.
7. SES Americom shall notify the Commission, in writing, within two business days of the commencement of IOT operations, that such operations have commenced.
8. 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.



File # SAT-STA-20110726-00133

Call Sign S2826 Grant Date SEPT. 1, 2011  
(or other identifier)

Term Dates  
From: See Attached To: See Attached

Approved: \_\_\_\_\_

*Robert G. Nelson* *Chris S. Sullivan*

2. Contact	
<b>Name:</b> Karis Hastings	<b>Phone Number:</b> 202-637-5767
<b>Company:</b> Hogan Lovells US LLP	<b>Fax Number:</b> 202-637-5910
<b>Street:</b> 555 Thirteenth Street, NW	<b>E-Mail:</b> karis.hastings@hoganlovells.com
<b>City:</b> Washington	<b>State:</b> DC
<b>Country:</b> USA	<b>Zipcode:</b> 20004 -1120
<b>Attention:</b>	<b>Relationship:</b>
(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 type="radio"/> Change Station Location	<input type="radio"/> Extend Expiration Date
	<input checked="" type="radio"/> Other
6. Temporary Orbit Location	
77.25 W.L	7. Requested Extended Expiration Date

<p>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.)</p> <div style="border: 1px solid black; padding: 5px;"> <p>SES Americom, Inc. requests space station special temporary authority for in-orbit testing of its SES-2 spacecraft at 77.25 W.L. and to perform associated TT&amp;C.</p> </div>					
<p>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.</p> <p style="text-align: center;"> <input checked="" type="radio"/> Yes      <input type="radio"/> No         </p>					
<p>10. Name of Person Signing Daniel C.H. Mah</p>	<p>11. Title of Person Signing Regulatory Counsel</p>				
<p>12. Please supply any need attachments.</p> <table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">Attachment 1: SES-2 IOT and TTC</td> <td style="width: 50%;">Attachment 2:</td> </tr> <tr> <td></td> <td>Attachment 3:</td> </tr> </table>		Attachment 1: SES-2 IOT and TTC	Attachment 2:		Attachment 3:
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<p style="text-align: center;"> <b>WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT</b>          (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).       </p>					

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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.**

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<b>DBA Name:</b>		<b>Fax Number:</b>	202-478-7101
<b>Street:</b>	1129 20th Street NW Suite 1000	<b>E-Mail:</b>	daniel.mah@ses.com
<b>City:</b>	Washington	<b>State:</b>	DC
<b>Country:</b>	USA	<b>Zipcode:</b>	20036
<b>Attention:</b>	Daniel C.H. Mah		

2. Contact	
<b>Name:</b> Karis Hastings	<b>Phone Number:</b> 202-637-5767
<b>Company:</b> Hogan Lovells US LLP	<b>Fax Number:</b> 202-637-5910
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4b. Fee Classification CRY - Space Station (Geostationary)	
5. Type Request	
<input type="radio"/> Change Station Location	<input type="radio"/> Extend Expiration Date
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**Before the  
FEDERAL COMMUNICATIONS COMMISSION  
Washington, D.C. 20554**

In the Matter of Application by )  
 )  
SES AMERICOM, INC. ) Call Sign S2826  
For Special Temporary Authority to )  
Test SES-2 at 77.25° W.L. )

**REQUEST FOR SPECIAL TEMPORARY AUTHORITY**

By this application, SES Americom, Inc. (“SES Americom”), respectfully requests space station special temporary authority (“STA”) to permit SES Americom to perform in-orbit testing (“IOT”) of its SES-2 spacecraft at 77.25° W.L. Authority is sought for a period of up to 30 days, commencing twelve days following the launch of SES-2, which is currently scheduled to occur in early September 2011. Specifically, SES Americom requests:

(1) authority to perform telemetry, tracking and command (“TT&C”) in order to position SES-2 at 77.25° W.L.; (2) authority to operate the TT&C and communications payloads of SES-2 at 77.25° W.L. during IOT; (3) authority to operate the C-band payload during IOT in order to test and download data from the Commercially Hosted Infrared Payload (“CHIRP”) on the satellite, and (4) authority to perform TT&C in order to drift SES-2 to 87° W.L. following the completion of IOT.

SES Americom has a pending application for a Commission license to operate SES-2 at 87° W.L. in the conventional C- and Ku-bands to replace SES Americom’s AMC-3 spacecraft.<sup>1</sup> SES Americom requests authority to test the C- and Ku-band payloads of SES-2 at

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<sup>1</sup> See SES Americom, Inc., File No. SAT-RPL-20110429-00082, Call Sign S2826 (“SES-2 Application”); amended, File No. SAT-AMD-20110613-00107; Report No. SAT-00788, *Public Notice: Policy Branch Information* (rel. June 24, 2011). The “conventional C-band” refers to the

77.25° W.L. and perform associated TT&C.<sup>2</sup> In addition, SES Americom requests temporary authority to operate the C-band payload of the satellite to enable testing of and data download from CHIRP, a U.S. government payload hosted on the SES-2 spacecraft.<sup>3</sup> As discussed below, temporary operation of SES-2 at 77.25° W.L. rather than 87° W.L. will permit testing to occur without disruption to existing customers at 87° W.L. and will not adversely affect the operation of any adjacent satellites.

***Grant of STA Will Serve the Public Interest.*** Grant of SES Americom’s request to test SES-2 at the 77.25° W.L. orbital position is in the public interest. By testing SES-2 at this location, SES Americom will minimize the risk of interference and be able to ensure that the C-band and Ku-band payloads on the SES-2 spacecraft are fully operational at the time it arrives at its final orbital location, thereby avoiding any interruption in service that otherwise might be associated with spacecraft testing. The public interest would also be served by enabling the U.S. government’s experimental payload – CHIRP – to be tested and operated at 77.25° W.L.

***No Harmful Interference to Other Spacecraft.*** The testing and temporary operation of SES-2 (including CHIRP) at 77.25° W.L. will not cause harmful interference to the operations of any other spacecraft due to orbital angular separation, frequency diversity and/or geographically diverse beam coverage. SES Americom is in the process of coordinating the proposed TT&C and IOT operations with other C- and Ku-band satellites positioned near 77.25° W.L., including Brasilsat B3, Simon Bolivar, Horizons 2, and EchoStar 8. In order to

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3700-4200 MHz and 5925-6425 MHz frequencies. The “conventional Ku-band” refers to the 11.7-12.2 GHz and 14.0-14.5 GHz frequencies.

<sup>2</sup> The TT&C frequencies for the SES-2 satellite are at the edges of the conventional C- and Ku-band. See SES-2 Application, Technical Narrative at 8.

<sup>3</sup> See SES-2 Application, Technical Narrative at 21-22.

further avoid possible interference with nearby spacecraft, SES Americom intends to perform TT&C in the Ku-band during the IOT of SES-2. SES Americom also intends to use Ku-band TT&C frequencies to drift the spacecraft from 77.25° W.L. to 87° W.L.

***No Harmful Interference to Terrestrial Services.*** Transmissions associated with IOT of SES-2 will not cause harmful interference to any co-primary terrestrial services in the conventional C-band. The C-band earth station to be used for in-orbit testing of the satellite has been coordinated to communicate with satellites in an arc that includes 77.25° W.L. The earth station will not exceed the maximum output EIRP density specified in its license. Some IOT procedures will require the satellite transponders to intermittently transmit a CW carrier for a short duration of time (less than five minutes) over a period of a couple of days. During such transmissions, the maximum satellite downlink PFD density is expected to exceed the PFD limits specified in Section 25.208(a), but only for the minimal amounts of time during IOT. The operation of the C-band frequencies for CHIRP testing will be at power levels that comply with the PFD limits specified in Section 25.208(a).

In addition, and in any event, SES Americom will conduct all IOT operations on a non-harmful interference basis, and will cease transmissions promptly in the event any harmful interference is caused by such operations.

***Protective Conditions.*** SES Americom seeks authority to position and test SES-2 at 77.25° W.L., and to relocate the satellite to 87° W.L. once testing is completed, subject to the following (or similar) conditions:

- (a) SES Americom will coordinate its drift and test operations with all potentially affected operating satellite networks.
- (b) During the drift of SES-2 to 77.25° W.L., and during the drift from 77.25° W.L. to 87° W.L., only the TT&C payload of the SES-2 spacecraft will be operated.

(c) No harmful interference will be caused to any lawfully operating satellite network or radio communication system and SES Americom operations will cease immediately upon notification of harmful interference. Further, SES Americom shall notify the Commission in writing that it has received such a notification within 14 days of receipt.

(d) SES Americom will accept interference from any lawfully operating satellite network or radio communication system.

(e) Testing authority is limited to the conventional C- and Ku-band frequencies at the 77.25° W.L. orbital location.

(f) During in-orbit testing, SES Americom shall maintain the SES-2 space station within an east/west longitudinal station-keeping tolerance of +/-0.05 degrees of the 77.25° W.L. orbital location.

(g) Operations of the SES-2 space station at 77.25° W.L. are limited to in-orbit testing, and shall not include any provision of commercial services.

(h) The authorization is subject to change in any of its terms or cancellation in its entirety at any time upon reasonable notice, but without hearing, if in the opinion of the Commission, circumstances require.

(i) The temporary authority will commence 12 days after the SES- 2 launch and terminate 30 days from that date.

(j) The 24/7 point of contact for SES Americom during IOT and drift maneuvers is Dave Westlund, (805) 217-4415, [dave.westlund@ses.com](mailto:dave.westlund@ses.com).

SES Americom hereby certifies that no party to this application is subject to a denial of federal benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. § 862.

For the foregoing reasons, SES Americom respectfully requests special temporary authority to position and test SES-2 at 77.25° W.L. for a period of up to 30 days, commencing twelve days following the launch of SES-2, and to relocate the spacecraft to 87° W.L. following the completion of in-orbit testing. Grant of the requested authority will permit testing of the spacecraft to occur without affecting services to customers and will permit a seamless transition of services. As noted above, SES Americom is preparing to launch SES-2 in early September 2011, and requests action on this application to accommodate that schedule.

Respectfully submitted,

SES AMERICOM, INC.

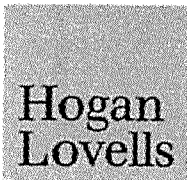
By: /s/ Daniel C.H. Mah

Of Counsel

Karis A. Hastings  
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Washington, D.C. 20004-1109  
Tel: (202) 637-5600

Daniel C. H. Mah  
Regulatory Counsel  
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Princeton, NJ 08540

Dated: July 26, 2011



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August 15, 2011

**By Electronic Filing**

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

**Re: Request for Special Temporary Authority For SES-2 TT&C and IOT  
File No. SAT-STA-20110726-00133 (Call Sign S2826)**

Dear Ms. Dortch:

SES Americom, Inc. ("SES Americom"), by its attorneys, hereby submits this slight change in the scope of authority sought in the above-referenced request for special temporary authority to perform in-orbit testing ("IOT") and associated telemetry, tracking and command ("TT&C") for the SES-2 satellite (the "SES-2 IOT STA Request"). Specifically, SES Americom seeks the flexibility to use C-band and/or Ku-band TT&C frequencies during the planned drift of SES-2 from 77.25° W.L. to 87° W.L. following completion of IOT.

To be clear, SES Americom will still be using Ku-band for TT&C during IOT at 77.25° W.L. in order "to further avoid possible interference with nearby spacecraft."<sup>1</sup> SES Americom is simply seeking flexibility to perform TT&C using C-band and/or Ku-band TT&C frequencies for the drift of the satellite away from the IOT location.

Grant of the requested authority will serve the public interest and will not adversely affect any other satellite operator. Grant of the STA with this change will allow SES Americom to perform TT&C in frequencies with lower path loss and provide a greater degree of redundancy. Moreover, consistent with industry practice, the use of TT&C frequencies during the drift will be coordinated with all known spacecraft in the path of the satellite to ensure operations on a non-harmful interference basis. The proposed addition of C-band TT&C frequencies for the drift from 77.25° W.L. has been coordinated with EchoStar's spacecraft at the nominal 77° W.L. location.

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<sup>1</sup> SES-2 IOT STA Request, Narrative at 2-3.  
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Accordingly, SES Americom respectfully requests that any grant of the SES-2 IOT STA Request include authority for both C-band and Ku-band TT&C frequencies during the drift from 77.25° W.L. to 87° W.L. Please address any questions regarding this matter to the undersigned.

Respectfully submitted,

*/s/ Karis A. Hastings*

Karis A. Hastings

Counsel for SES Americom, Inc.  
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D +1.202.637.5767

cc: Stephen Duall  
Kathryn Medley