

Approved by OMB  
3060-0678

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:  
SES-STA-PSL-K1-Ext-Ku

1. Applicant

Name:	SES Americom, Inc.	Phone Number:	202-478-7143
DBA Name:		Fax Number:	202-478-7111
Street:	1129 20th Street NW Suite 1000	E-Mail:	petra.vorwig@ses.com
City:	Washington	State:	DC
Country:	USA	Zipcode:	20036
Attention:	Ms Petra A Vorwig		



File # SES-STA-20180731-02072  
E170198  
Call Sign (or other identifier) SES  
Grant Date 8-14-18  
Term Dates From: 8-15-18 To: 9-17-18  
Approved: [Signature]

<b>2. Contact</b>	
<b>Name:</b> George Varkey	<b>Phone Number:</b> 609 987 4327
<b>Company:</b> SES	<b>Fax Number:</b>
<b>Street:</b> 4 Research Way	<b>E-Mail:</b> george.varkey@ses.com
<b>City:</b> Princeton	<b>State:</b> NJ
<b>Country:</b> USA	<b>Zipcode:</b> 08540 -
<b>Attention:</b>	<b>Relationship:</b> Engineer
(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 SESLIC2017102601218 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 CGX - Fixed Satellite Transmit/Receive Earth Station	
5. Type Request	
<input checked="" type="radio"/> Use Prior to Grant <input type="radio"/> Change Station Location <input type="radio"/> Other	
6. Requested Use Prior Date	
08/15/2018	
7. City/Port St. Lucie	
8. Latitude	
(dd mm ss.s h) 27 16 56.0 N	

9. State	FL
10. Longitude (dd mm ss.s h)	80 28 58.0 W
11. Please supply any need attachments.	Attachment 1: Service Description      Attachment 2:      Attachment 3:
12. 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.)	<div style="border: 1px solid black; padding: 5px;"> <p>STA is being submitted to use the earth station with call sign #E170198 to conduct service performance testing on SES-14 using the 13.75 to 14 GHz (Ext.Ku) frequency band as the grant of authorization to use the frequency band by the earth station is in pending. SES-14 is located at 47.5W longitude and the description of the carriers intended to be used</p> </div>
13. 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 <input checked="" type="radio"/> No <input type="radio"/>
14. Name of Person Signing	Petra A Vorwig
15. Title of Person Signing	Senior Legal & Regulatory Counsel
<p><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>	

**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](mailto: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.**

## **12. Description**

STA is being submitted to use the earth station with call sign #E170198 to conduct service performance testing on SES-14 using the 13.75 to 14 GHz (Ext.Ku) frequency band as the grant of authorization to use the frequency band by the earth station is in pending. SES-14 is located at 47.5W longitude and the description of the carriers intended to be used for the testing is attached.

Applicant: SES Americom, Inc.  
Call Sign: E170198  
File No.: SES-STA-20180731-02072  
Special Temporary Authority (STA)

SES Americom, Inc. is granted STA, for 30 days, to conduct performance testing of SES-14 (S2974) satellite at orbital location 47.5° W from its fixed licensed earth station (Call sign E170198) in Port St. Lucie, Florida located at 27° 16' 56.0" N, 080° 28' 58.0" W using frequency band 13750-14000 MHz (Earth-to-space) under the following conditions:

1. Operations shall be with antenna ID PSL-K1, 9-meter antenna, transmit antenna gain of 60.1 dBi at 14.125 GHz center frequency; within the coordinated frequency ranges: 13780-14000 MHz, 13770-13780 MHz, 13750-14000 MHz, 13750-13770 MHz (H,V); their requested emission designators and bandwidths; their requested maximum eirp per carrier and maximum eirp density per carrier levels which shall comply with the eirp limitations established in the Code of Federal Regulations 47 C.F.R. § 2.106, International Footnotes US356 and US357.
2. Operations shall comply with the input power density per carrier of -14.00 dBW/ 4KHz for routinely licensed digitally modulated carriers on frequency 14000 MHz with respect to the Code of Federal Regulations 47 C.F.R. § 25.212(c)(2).
3. Operations, shall not cause harmful interference to, and shall not claim protection from, interference caused to it by any other lawfully operating station and it shall cease transmission(s) immediately upon notice of such interference.
4. In the event of any harmful interference under this grant of STA, SES Americom, Inc., E170198 must cease operations immediately upon notification of such interference, and must inform the Commission, in writing, immediately of such an event.
5. Grant of this authorization is without prejudice to any determination that the Commission may make regarding pending or future SES Americom, Inc. applications.
6. Any action taken or expense incurred as a result of operations pursuant to this STA is solely at SES Americom, Inc.'s risk.

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 # SES-STA-20180731-02072  
Call Sign E170198 Grant Date 8-14-18  
(or other identifier)  
Term Dates  
From: 8-15-18 To: 9-14-18  
Approved: [Signature]

**Service Description-SES-14 Performance Testing:**

**Site Details**

**Contact Information:**

Renato Dias  
305-514-0001

**Address:**

10161 Range Line Rd  
Port St. Lucie, FL 34987

**Geographic Coordinates:**

Latitude: 27.282 N

Longitude: 80.482 W

**Site Elevation:**

5 meters

**Antenna Details**

Antenna ID: PSL-K1  
Manufacture/Model: General Dynamics/9.0m Cassegrain  
Antenna Size: 9.0 meters  
Antenna Gain Transmit: 60.1 dBi at 14.125 GHz  
Antenna Gain Receive: 58.5 dBi at 11.725 GHz  
Height Above Ground Level: [9.7 ] meters  
Height Above Sea Level: [ 14.7 ] meters  
Total Input Power at the Flange: [ 750 ] watts  
Total EIRP for the test Carriers: [ 88.85 ] dBW

**Operational Details**

Frequency (GHz)	Transmit/Receive	Pol	Emissions Designator	Max EIRP per Carrier (dBW)	Max EIRP Density (dBw/4kHz)
13780-14000	T	H,V	72M0G7W	77.5	34.9
13778-14000	T	H,V	118MG7W	79.6	34.9
13770-13780	T	H,V	8M17G7W	68.0	34.9
13750-14000	T	H,V	8M17G7W	68.00	34.9
13750-13770	T	H,V	20M0G7W	71.90	34.9