

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-WBN-K13-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-20180731-02071
E170197 Call Sign Grant Date 8-14-18
(or other identifier) Term Dates From: 8-15-18 To: 9-14-18
Approved: *Paul E. Hayes*



GRANTED
International Bureau

2. Contact			
Name:	George Varkey	Phone Number:	609 987 4327
Company:	SES	Fax Number:	
Street:	4 Research Way	E-Mail:	george.varkey@ses.com
City:	Princeton	State:	NJ
Country:	USA	Zipcode:	08540 -
Attention:		Relationship:	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 SESLIC2017102701217 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/Mt. Airy			
8. Latitude (dd mm ss.s h) 39 22 36.5 N			

9. State	MD	10. Longitude (dd mm ss.s h)	77 4 49.4 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>The STA is being submitted to use the earth station with call sign # E170197 for the service performance testing of SES-14 in the frequency band 13.75GHz to 14 GHz (Ext.Ku) as the grant of license in the frequency band is in pending. SES-14 is located at 47.5 deg W longitude.</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.			
14. Name of Person Signing	Petra A Vorwig	15. Title of Person Signing	Senior Legal & Regulatory Counsel
<p>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).</p>			

FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT

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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.

Applicant: SES Americom, Inc.
Call Sign: E170197
File No.: SES-STA-20180731-02071
Special Temporary Authority (STA)

SES Americom, Inc. is granted STA, for 30 days, to conduct service performance testing of SES-14 (S2974) satellite at orbital location 47.5° W from its fixed licensed earth station (Call sign E170197) in Mt. Airy, Maryland located at 39° 22' 36.52" N, 077° 04' 49.4" W using frequency band 13750-14000 MHz (Earth-to-space) under the following conditions:

1. Operations shall be with antenna ID WBN-K13, 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., E170197 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-20180731-02071
Call Sign E170197 Grant Date 8-14-18
(or other identifier)
Term Dates
From: 8-15-18 To: 9-14-18
Approved: [Signature] [Signature]

Service Description-SES-14 Performance Testing

Site Details

Contact Information:

Mark Rathert
410-970-7501

Address:

2323 Grimville Rd.
Mt. Airy, MD 21771

Geographic Coordinates:

Latitude: 39° 22' 36.52"N

Longitude: 77° 4' 49.40"W

Site Elevation:

190 meters

Antenna Details

Antenna ID: WBN-K13
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: [199.7] meters
Total Input Power at the Flange: [750] watts
Total EIRP for the test Carriers: [88.85] dBW

Operational Details

Frequency (GHz)	Transmit/Receive	Polarization	Emissions Designator	Max EIRP per Carrier (dBW)	Max EIRP Density per Carrier (dBw/4kHz)
13780-14000	T	H,V	72M0G7W	85.00	42.4
13780-14000	T	H,V	50M2G7W	85.0	44.00
13770-13780	T	H,V	10M0G7W	73.20	39.20
13770-13780	T	H,V	6M00G7W	71.00	39.2
13750-14000	T	H,V	152MG7W	85.00	39.2
13750-14000	T	H,V	225MG7W	85.00	37.5
13750-14000	T	H,V	648KG7W	68.00	45.90
13750-13770	T	H,V	20M0G7W	82.90	45.90