

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
STA-Ext.-E170197

I. 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-20190703-00876
Call Sign E170197 Grant Date 9-2-19
(or other identifier)
Term Dates
From: 9-2-19 To: 3-2-20
Approved: [Signature]

2. Contact	
Name: George Varkey	Phone Number: 6099874327
Company: SES	Fax Number:
Street: 4 Research Way	E-Mail: george.varkey@sas.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	
08/06/2019	
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: STA-Ext-Narrative 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.) SES respectfully requests extension of Special Temporary Authority (STA) for a period of 180 days beginning August 6th, 2019 to continue the services operated out of the 9.0m antenna earth station (call sign # E170197) located at Woodbine, MD as the Ext. Ku band license application has been in pending since 9/20/2017.	
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"; 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
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).	

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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.



File # SES-STA-20190703-00876
E170197
 Call Sign E170197 Grant Date 9-4-19
 (or other identifier)
 Term Dates
 From: 9-4-19 To: 3-2-20
 Approved: Paul E. Hadd

Applicant: SES Americom, Inc.
 Call Sign: E170197
 File No.: SES-STA-20190703-00876
 Special Temporary Authority (STA)

SES Americom, Inc. is granted extension of STA, for 180 days, to conduct antenna testing with the SES-14 (S2974) satellite at orbital location 47.5° W from its fixed licensed earth station (Call sign E170197) in Mt. Airy, MD located at 39° 22' 36.5" N, 077° 04' 49.40" W using frequency band 13750-14000 MHz (Earth-to-space) under the following conditions:

1. Operations shall be with antenna ID WDB-K13, GD Satcom/9.0m model, 9-meter antenna, transmit antenna gain of 60.1 dBi at 14.125 GHz center frequency; within the coordinated frequency ranges: 13750-14000 MHz (H,V); requested emission designators: 648KG7W, 6M00G7W, 10M0G7W, 20M0G7W, 50M2G7W, 72M0G7W, 152MG7W, and 225MG7W; 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 (eirp level shall be at least 68 dBW and not exceed 85 dBW for 13750-13772 MHz and 13778-14000 MHz frequency bands) and US357 (eirp density level not exceed 71 dBW/6MHz for the 648KG7W emission carrier on 13772-13780 MHz frequency band).
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.
7. 24/7 contact during testing: Mark Rathert, phone 410-970-7501.

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.

REQUEST FOR SPECIAL TEMPORARY AUTHORITY

By this application, SES Americom, Inc. ("SES") respectfully requests special temporary authority ("STA") (extension of the STA granted until 08/05/2019) for a period of 180 days, starting on 08/06/2019, to operate the station with call sign #E170197, in the Ext. Ku-band frequency on a non-interference basis as the license application to operate the antenna in the frequency has been in pending since 9/20/2017. The carriers in the frequency band will be operated within the EIRP & EIRP density limit as specified in the interference study that was submitted with the license application. The antenna will communicate with SES-14 (call sign S2974), Brazil-licensed satellite that is on the Commission's Permitted Space Station List. The technical details of the proposed operations are provided below, and the antenna will be operated in compliance with the Commission's radiation hazard limits. Grant of the requested authority will avoid numerous filings of STAs to allow SES to continue the services offered with the antenna.

Site Details

Contact Information:

Mark Rathert
410-970-7501

Address:

2323 Grmville Rd
Mt.Airy, MD 21771

Geographic Coordinates:

Latitude: 39deg 22' 36.52"N

Longitude: 77deg 4'49.40"W

Site Elevation:

190 meters

Antenna Details

Antenna ID:	WBN-K13
Manufacture/Model:	General Dynamics/9.0m Casegrain
Antenna Size:	9 meters
Antenna Gain Transmit:	59.9 dBi at 13.8 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 all Carriers: 88.65 dBW

Operational Details

Frequency (MHz)	Transmit/Receive	Polarization	Emissions Designator	Max EIRP per Carrier (dBW)	Max EIRP Density per Carrier (dBW/4kHz)
13780-14000	T	Horizontal and Vertical	72M0G7W	85.0	42.4
13780-14000	T	Horizontal and Vertical	50M2G7W	85.0	44.0
13770-13780	T	Horizontal and Vertical	10M0G7W	73.2	39.2
13770-13780	T	Horizontal and Vertical	6M00G7W	71.0	39.2
13750-14000	T	Horizontal and Vertical	152M G7W	85.0	39.2
13750-14000	T	Horizontal and Vertical	225MG7W	85.0	37.5
13750-14000	T	Horizontal and Vertical	648KG7W	68.0	45.90
13750-13770	T	Horizontal and Vertical	20M0G7W	82.9	45.9