

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
Request for 30-Day STA to Test 9m Ku-band Antenna in Woodbine, MD (K-13)

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-20170901-00978
Call Sign Grant Date 9-11-17
(or other identifier)
Term Dates
From: 9-11-17 To: 9-12-17
Approved: [Signature]

Applicant: SES Americom, Inc.
Call Sign: N/A
File No.: SES-STA-20170901-00978

SES Americom is granted special temporary authority, for 30 days, beginning September 12, 2017 to operate one 9 meter fixed antenna with AMC-15 (S2180) satellite at the 105° W.L. orbital location in the 11.7-12.2 GHz (space-to-Earth) and 14.0-14.5 GHz (Earth-to-space) frequency bands under the following conditions:

1. Operations, shall not cause harmful interference to or claim protection from other lawfully operating stations and it shall cease transmission(s) immediately upon notice of such interference.
2. In the event of any harmful interference under this grant of STA, SES-Americom, Inc. must cease operations immediately.
3. Grant of this authorization is without prejudice to any determination that the Commission may make regarding pending or future SES Americom, Inc. applications.
4. All operations must be within the relevant requested operational parameters in IBFS File No. SAT-PPL-20160918-00093.
5. Any action taken or expense incurred as a result of operations pursuant to this STA is solely at SES Americom's risk.
6. Should an emergency situation exists and the applicant must notify FCC OperationCenter@fcc.gov of the situation with a copy to paul.blais@fcc.gov.

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.

 GRANTED International Bureau	File # <u>SES-STA-20170901-00978</u>
	Call Sign _____ Grant Date <u>9-11-17</u> (or other identifier)
	Term Dates From: <u>9-12-17</u> To: <u>10-12-17</u>
	Approved: <u>Paul E. Blais</u>

2. Contact	
Name: George Varkey	Phone Number: 609-987-4327
Company: SES Americom, Inc.	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 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 type="radio"/> Use Prior to Grant <input type="radio"/> Change Station Location <input checked="" type="radio"/> Other	
6. Requested Use Prior Date 09/12/2017	
7. CityMount 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 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 Americom, Inc. respectfully requests special temporary authority (STA) for 30 days beginning September 12, 2017 to test a 9m antenna located at its Woodbine, MD facility in the conventional Ku−band with AMC−15 (Call Sign S2180). See attachment.
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
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.

**Before the
FEDERAL COMMUNICATIONS COMMISSION
Washington, D.C. 20554**

In the Matter of)
)
SES Americom, Inc.) SES-STA- _____ - _____
)
Request for Special Temporary Authority to Test)
New Antenna in the Conventional Ku-band)

Expedited Action Requested

REQUEST FOR SPECIAL TEMPORARY AUTHORITY

SES Americom, Inc. (“SES”) respectfully requests Special Temporary Authority (“STA”) for 30 days to test a new nine-meter antenna located at SES’s facility in Woodbine, Maryland (WB K-13) in the conventional Ku-band with the AMC-15 satellite at 105° W.L. (Call Sign S2180). SES is preparing an application seeking a license for this antenna, which will be used to support operations of the SES-14 satellite to be operated by SES DTH do Brasil Ltda (“SES DTH Brasil”) at 47.5° W.L.¹ SES seeks STA to test the new antenna in the conventional Ku-band frequencies beginning September 12, 2017, and asks for Commission action consistent with that timing.

Specifically, SES requests authority to test the WB K-13 antenna on the following frequencies with AMC-15: 11.7-12.2 GHz (downlink) and 14.0-14.5 GHz (uplink). Testing will consist of an unmodulated CW carrier operating for a few hours several times during the requested 30-day STA term. All operations will be conducted within the technical parameters set forth in Attachment 1 and on an unprotected, non-interference basis.

¹ See SES DTH do Brasil Ltda, Call Sign S2974, File No. SAT-PPL-20160918-00093, granted Feb. 9, 2017.

Grant of the requested STA on an expedited basis is in the public interest because it will allow SES Americom to ensure its earth station is capable of providing a high level of service in support of the SES-14 operations in advance of the satellite's launch, which is scheduled for early in 2018.

For the foregoing reasons, SES Americom respectfully requests that the Commission grant it on an expedited basis a 30-day STA to test its WB K-13 antenna with AMC-15 in the conventional Ku-band.

Respectfully submitted,

SES Americom, Inc.

By: /s/ Petra A. Vorwig

Of Counsel

Karis A. Hastings
SatCom Law LLC
1317 F Street, N.W., Suite 400
Washington, D.C. 20004
Tel: (202) 599-0975

Petra A. Vorwig
Senior Legal & Regulatory Counsel
SES Americom, Inc.
1129 20th Street N.W., Suite 1000
Washington, D.C. 20036

Dated: September 1, 2017

Attachment 1

Site Details

Contact Information:

Mark Rathert
410-970-7501

Address:

2323 Grimville Rd.
Mt. Airy, MD 21771

Geographic Coordinates:

Latitude: 39° 22' 36.5"N

Longitude: 77° 4' 49.4"W

Site Elevation:

190 meters

Antenna Details

Antenna ID: K-13
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)
11.7-12.2	R	Horizontal and Vertical	1M00G9D	0.0	0.0
11.7-12.2	R	Horizontal and Vertical	100KG7W	0.0	0.0
11.7-12.2	R	Horizontal and Vertical	N0N	0.0	0.0
14.0-14.5	T	Horizontal and Vertical	1M00F9D	76.08	52.1
14.0-14.5	T	Horizontal and Vertical	100KG7W	60.08	46.1
14.0-14.5	T	Horizontal and Vertical	N0N	52.1	52.1