

SES Americom, Inc.

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:
Request for 30-Day STA to Test 9m Ku-band Antenna in Woodbine, MD (K-12)

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 # SSSSTA-20170425-00464

Call Sign S-8-17 Grant Date S-8-17
(or other identifier)

Term Dates
From: S-8-17 To: S-7-17

Approved: Paul E. Hayes



Applicant: SES Americom, Inc.
Call Sign: N/A
File No.: SES-STA-20170425-00464
Special Temporary Authority (STA)



File # SES-STA-20170425-00464
Call Sign _____ Grant Date 5-8-17
(or other identifier)
Term Dates
From: 5-8-17 To: 6-7-17
Approved: Paul E. Hobb

SES Americom, Inc. is granted a special temporary authority for 30 days, commencing May 8, 2017, to operate its Woodbine, MD fixed earth station to communicate with AMC-15 (S2180) at the 105.05° W.L. orbital location and EchoStar 6 (S2232) at the 96.2° W.L. orbital location to test a 9.0 m Cassegrain antenna respectively in the 14.0 - 14.5 GHz (Earth-to-space) and 11.7- 12.2 GHz (space-to-Earth) and 17.3 - 17.7 GHz (Earth-to-space) and 12.2- 12.7 GHz (space-to-Earth) frequency bands under the following conditions:

1. Operations will not exceed the operational power levels and parameters requested and coordinated.
2. The operations must be coordinated with all operators of satellites that use the same frequency bands. All operators of satellites in that path will be provided with an emergency phone number where the licensee can be reached in the event that harmful interference occurs. Currently the 24X7 contact information is: Ph.:(703) 367-7311. Requests to speak with Gary Cruickshank.
3. Transmitter(s) must be turned off during antenna maintenance to ensure compliance with the FCC-specified safety guidelines for human exposure to radiofrequency radiation in the region between the antenna feed and the reflector. Appropriate measure must also be taken to restrict access to other regions in which the earth station's power flux density levels exceed the specified guidelines.
4. This license authorization is limited to the use of frequency band 14.0-14.5 GHz (uplink) and frequency band 11.7-12.2 GHz (downlink), commonly referred to, jointly, as the Ku-band. The licensee of the facilities herein authorized shall establish/maintain a Network Control Center having the capability of instantaneously terminating all transmissions from all stations in this authorized network upon notification. The licensee shall not cause harmful radio interference into any conforming service in the 14.0-14.5 GHz/11.7-12.2 GHz band (See 47 CFR section 2.106), and as a non-conforming user of such frequency band, must accept any radio interference from any service with superior status authorized to use such band. The licensee and its satellite provider(s) must coordinate this authorized network with adjacent satellite operators, both domestic and international, to eliminate the possibility of adjacent satellite radio interference and must cease transmissions immediately upon notification of radio interference caused by the nonconforming use of the aforementioned frequency band. The licensee must file a modification of this authorized network to obtain prior Commission approval -- (a) to change satellite provider and (b) to change parameters related to the various earth stations in this authorized network. The licensee shall maintain a log recording all incidents of alleged harmful radio interference. The log shall document the nature of each incident, the parties involved and the outcome. The log shall be maintained for a five year period after each incident
5. Any action taken or expense incurred as a result of operations pursuant to this STA is solely at SES Americom'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 upon release.

2. Contact	
Name: George Varkey	Phone Number: 609-987-4327
Company: SES	Fax Number:
Street: 4 Research Way	E-Mail:
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 05/10/2017	
7. CityMount Airy	
8. Latitude (dd mm ss.s h) 39 22 36.8 N	

9. State MD	10. Longitude (dd mm ss.h) 77 4 47.46 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 requests Special Temporary Authority (STA) for 30 days to test a 9m antenna located at its Woodbine, MD facility in the conventional Ku-band with AMC-15 (Call Sign S2180) and in the Ku BSS band with EchoStar 6 (Call Sign 2232).	
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. <input checked="" type="radio"/> Yes <input type="radio"/> No	
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 and)
Ku BSS band)

Expedited Action Requested

APPLICATION 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-12) in the conventional Ku-band with the AMC-15 satellite at 105° W.L. (Call Sign S2180) and in the Ku BSS band with the EchoStar 6 satellite at 96.2° W.L. (Call Sign S2232). SES is preparing and will shortly file an application seeking a license for this antenna, which will be used to provide commercial service and telemetry, tracking and control operations for the SES-15 satellite to be operated by SES Satellites (Gibraltar) Ltd. (“SES-GIB”) at 129.15° W.L.¹ SES seeks STA to test the new antenna in the conventional and BSS Ku-band frequencies beginning May 10, 2017, and asks for Commission action consistent with that timing.

¹ See SES Satellites (Gibraltar) Limited, Call Sign S2951, File Nos. SAT-PPL-20160126-00007, SAT-MPL-20160718-00063, granted Dec. 14, 2016 (“SES-15 Grant”).

Specifically, SES requests authority to test the WB K-12 antenna on the following frequencies with AMC-15: 11.7-12.2 GHz (downlink) and 14.0-14.5 GHz (uplink). SES also requests authority to test the antenna on the following frequencies with EchoStar 6: 12.2-12.7 GHz (downlink) and 17.3-17.7 GHz² (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.

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-15 operations in advance of the satellite's launch, which is scheduled for next month.

² SES has coordinated operations in the 12.2-12.7 GHz/17.3-17.7 GHz BSS bands for other antennas located at the Woodbine teleport site. *See* SES Americom, Inc., Call Sign E140054, File No. SES-LIC-20140605-00427, granted Sept. 17, 2014. The test operations described in this request will be conducted on an unprotected, non-interference basis.

For the foregoing reasons, SES Americom respectfully requests that the Commission grant it a 30-day STA on an expedited basis to test its WB K-12 antenna with AMC-15 in the conventional Ku-band and with EchoStar 6 in the Ku BSS 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
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Petra A. Vorwig
Senior Legal & Regulatory Counsel
SES Americom, Inc.
1129 20th Street N.W., Suite 1000
Washington, D.C. 20036

Dated: April 25, 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' 36.8"N

Longitude: 77° 4' 47.46"W

Site Elevation:

199.6 meters

Antenna Details

Antenna ID: K-12
Manufacture/Model: General Dynamics/9.0m Cassegrain
Antenna Size: 9.0 meters
Antenna Gain Transmit: 60.1 dBi at 14.125 GHz
61.96 dBi at 17.5 GHz
Antenna Gain Receive: 58.5 dBi at 11.725 GHz
Height Above Ground Level: 9.7 meters
Height Above Sea Level: 209.3 meters
Total Input Power at the Flange: 1250 watts
Total EIRP for the test Carrier: 91.07 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
12.2-12.7	R	Horizontal and Vertical	1M00F9D	0.0	0.0
12.2-12.7	R	Horizontal and Vertical	100KG7W	0.0	0.0
12.2-12.7	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
17.3-17.8	T	Horizontal and Vertical	1M00F9D	76.08	52.1
17.3-17.8	T	Horizontal and Vertical	100KG7W	60.08	46.1
17.3-17.8	T	Horizontal and Vertical	N0N	52.1	52.1