

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 Demonstrate GetSat MicroSat LM Antenna with SES-15

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-20180316-00230

Call Sign 3-22318
(or other identifier)

From: 3-22318 To: 3-22318

Approved: [Signature]

Applicant: SES Americom, Inc.
Call Sign: No Call Sign
File No.: SES-STA-20180316-00230
Special Temporary Authority (STA)

SES Americom, Inc. is granted to operate under STA for 30 days, beginning March 25, 2018, to conduct demonstration testing of GetSat MicroSat LM antenna at Pinehurst, North Carolina (35° 12' 12.81" N/ 079° 27' 16.27" W) (NAD-83) to communicate with SES-15 satellite at orbital location 129.15° W in the frequency bands 14.0-14.5 GHz (Earth-to-space) and 11.7-12.2 GHz (space-to-Earth). Operations will be under the following conditions:

1. All operations shall be on an unprotected and non-harmful interference basis, 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 and must inform the Commission, in writing, immediately of such an event.
2. Operations shall be with emission designator 2M40G1D, 28.5 dBW eirp and 1.5 dBW/4kHz eirp density.
3. This STA is limited to operations associated with testing, satellite monitoring, and customer demonstrations purpose. SES Americom, Inc. may not provide any commercial service under this STA.
4. 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 measures must also be taken to restrict access to other regions in which the antennas' power flux-density levels exceed the specified guidelines.
5. Grant of this STA 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 upon release.



File # SES-STA-20180316-00230
Call Sign _____ Grant Date 3-23-18
(or other identifier)
Term Dates
From: 3-25-18 To: 4-24-18
Approved: [Signature]

2. Contact	
Name: Karis Hastings	Phone Number: 202-599-0975
Company: SatCom Law LLC	Fax Number:
Street: 1317 F St. NW Suite 400	E-Mail: karis@satcomlaw.com
City: Washington	State: DC
Country: USA	Zipcode: 20004 -
Attention:	Relationship: Legal Counsel
(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	
7. City/Pinehurst	8. Latitude (dd mm ss.s h) 35 12 12.81 N

9. State NC	10. Longitude (dd mm ss.s h) 79 27 16.27 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.) <div style="border: 1px solid black; padding: 5px;">SES Americom, Inc. ('SES') respectfully requests special temporary authority for 30 days to demonstrate its 30cm GetSat MicroSat LM antenna to the U.S. Department of Defense in the conventional Ku-band beginning on March 25, 2018. The antenna will communicate with SES-15 operating at 129.15 W.L. Please see attached narrative.</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 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).	

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.

REQUEST FOR SPECIAL TEMPORARY AUTHORITY

SES Americom, Inc. (“SES”) respectfully requests earth station Special Temporary Authority (“STA”) for 30 days to demonstrate a new 30 centimeter antenna designated GetSat MicroSat LM to the U.S. Department of Defense in the conventional Ku-band.¹ The demonstration will occur in Pinehurst, North Carolina, and the antenna will communicate with the SES-15 spacecraft at 129.15° W.L. (Call Sign S2951).² SES seeks STA to conduct the demonstration beginning March 25, 2018, and asks for Commission action consistent with that timing.

Grant of the requested STA on an expedited basis is in the public interest because it will allow the US Government to assess the benefits of the new antenna for operations in remote areas. Furthermore, the proposed operations in the conventional Ku-band will be limited and will not cause harmful interference to any terrestrial or satellite operators. SES will also conduct operations 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 demonstrate its GetSat MicroSat LM antenna with SES-15 in the conventional Ku-band beginning March 25, 2018.

¹ The proposed operations are summarized in Attachment 1.

² SES Satellites (Gibraltar) Ltd, (Call Sign S2951) File No. SAT-MPL-20160718-00063, granted Dec. 14, 2016, as modified by File No. SAT-MPL-20170914-00130, granted Nov. 22, 2017.

Attachment 1

Call Sign: New Antenna

Contact Information:

David Codacovi
(202) 478-7124

Address:

1129 20th Street, NW, Suite 1000
Washington, DC 20036

Site Details

Geographic Coordinates (WGS84):³

Latitude: 35.2035584 N

Longitude: 79.4545196 W

Site Elevation:

171 meters

Antenna Details

Antenna ID: GetSat1
Manufacture/Model: GetSat/MicroSat LM
Antenna Size: 30 centimeters
Antenna Gain Transmit: 27.3 dBi at 14.25 GHz
Antenna Gain Receive: 25.65 dBi at 11.9 GHz
Height Above Ground Level: 0.3 meters
Height Above Sea Level: 171.3 meters
Total Input Power at the Flange: 1.59 watts
Total EIRP for all Carriers: 28.5 dBW

Operational Details⁴

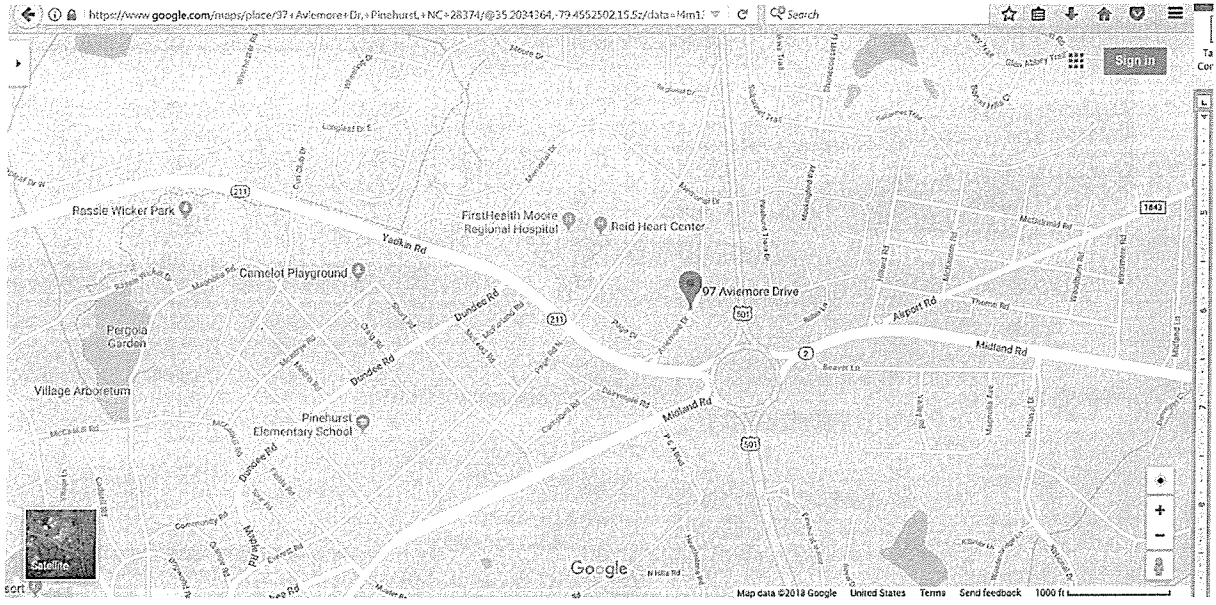
Frequency (MHz)	Transmit/Receive	Polarization	Emissions Designator	Max EIRP per Carrier (dBW)	Max EIRP Density per Carrier (dBW/4kHz)
14000-14500	T	Horizontal and Vertical	2M40G1D	28.5	-26.0
11700-12200	R	Horizontal and Vertical	2M40G1D		

³ See attached Google Map screenshot.

⁴ SES confirms that the antenna will operate in compliance with Section 25.209 of the Commission's rules.

Frequency Coordination

Range of Satellite Arc	Azimuth	Elevation Angle	Maximum EIRP Density Toward the Horizon
129.15° W.L.	244.4°	23.6°	-62.0 dBW/Hz





beyond frontiers

March 22, 2018

By Electronic Filing

Ms. Marlene H. Dortch
Secretary
Federal Communications Commission
445 12th Street, S.W.
Washington, DC 20554

Re: SES Americom, Inc., Application for Special Temporary Authority to Operate MicroSat
Antenna, File No. SES-STA-20180316-00230

Dear Ms. Dortch,

SES Americom, Inc. ("SES"), pursuant to Section 1.65 of the Commission's rules, 47 C.F.R. § 1.65, hereby provides an updated Attachment to the narrative submitted with the above referenced application. SES also submits an antenna plot demonstrating compliance with Section 25.209 of the Commission's rules (Attachment 2).

Please address any questions regarding this matter to the undersigned.

Yours Sincerely,

/s/ Petra Vorwig

Petra A. Vorwig
Senior Legal & Regulatory Counsel
SES Americom, Inc.

Attachment

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