

E160139 SES-STA-20161108-00877 IE2016002425
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 Special Temporary Authority to Test Antenna with AMC-8 in C-Band

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-20161108-00877
E160139
Call Sign Grant Date 11-29-16
(or other identifier)
Term Dates
From: 12-1-16 To: 12-31-16
Approved: [Signature]

Applicant: SES Americom, Inc.
Call Sign: E160139
File No.: SES-STA-20161108-00877
Special Temporary Authority (STA)

SES Americom, Inc. is granted a special temporary authority (STA) for 30 days, commencing December 01, 2016, to test its fixed earth station with the AMC-8 satellite(S2379) at the 139°W.L. orbital location in the 6247-6283 MHz (Earth-to-space) and 3700-4200 MHz (space-to-Earth) frequency bands under the following conditions:

1. Operations will not exceed the operational power levels and parameters requested and coordinated.
2. 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 and notify the FCC in writing.
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. The SES Americom Inc. shall take all necessary measures to ensure that the antenna does not create potential exposure of humans to radiofrequency radiation in excess of the FCC exposure limits defined in 47 CFR 1.1307 (b) and 1.1310 wherever such exposures might occur. Measures must be taken to ensure compliance with limits for both occupational/controlled exposure and for general population/uncontrolled exposure, as defined in these rule sections. The FCC's OET Bulletin 65 (available on-line at www.fcc.gov/oet/rfsafety) provides information on predicting exposure levels and on methods for ensuring compliance, including the use of warning and alerting signs and protective equipment for workers.
5. 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 20161108-00877
E160139
Call Sign E160139 Grant Date 11-29-16
(or other identifier)
Term Dates
From: 12-1-16 To: 12-31-16
Approved: [Signature] [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/Somis	8. Latitude (dd mm ss.s h) 34 19 32.0 N

9. State	CA
10. Longitude (dd mm ss.s h)	118 59 44.0 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. requests Special Temporary Authority for 30 days to test its new 11m SMWAAS antenna (call sign E160139) in the C-band with AMC-8 operating at 139 W.L. Authority is requested to begin by December 1, 2016.	
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
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-_____ - _____
) Call sign E160139
Request for Special Temporary Authority to)
Operate with AMC-8 at 139° W.L.)
)

APPLICATION FOR SPECIAL TEMPORARY AUTHORITY

SES Americom, Inc. (“SES Americom”) respectfully requests Special Temporary Authority (“STA”) for 30 days to test its new 11 meter Vertex antenna (SMWAAS) at its South Mountain teleport located in Somis, California, in the conventional C-band with AMC-8, operating at 139° W.L. As described in the pending license application, the SMWAAS antenna will be used to communicate with the Wide Area Augmentation System (“WAAS”) payload on the SES-15 satellite to be operated by SES Satellites (Gibraltar) Ltd. (“SES-GIB”) at 129.15° W.L.¹ SES Americom seeks STA to test the new antenna in C-band frequencies beginning December 1, 2016, and asks for Commission action consistent with that timing.

Specifically, SES Americom requests authority to test the SMWASS antenna on the following frequencies with AMC-8: 3700-4200 MHz (downlink) and 6247-6283 MHz ⁵²³⁷⁹ (uplink).² Testing will consist of an unmodulated CW carrier for a few hours once during the 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 SES Americom, Inc., Call Sign E160139, File No. SES-LIC-20160725-00674, filed July 25, 2016.

² C-band operations with AMC-8, including in the 6247-6283 MHz band, have been coordinated at the Somis, California teleport and include the parameters requested in this application. See File No. SES-RWL-20081105-01451, granted Nov. 6, 2008 (call sign KB27).

Grant of the requested STA will allow SES Americom to ensure its earth station is capable of providing a high level of service in support of the WAAS operations, which will ultimately improve aircraft navigation and safety.

For the foregoing reasons, SES Americom respectfully requests that the Commission grant it a 30-day STA to test its SMWAAS earth station with AMC-8 in the conventional C-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: November 7, 2016

Attachment 1

Call Sign: E160139

Site Details

Contact Information:

David Coyle
805-386-2712

Address:

5990 Solano Verde Dr.
Somis, California
93066

Geographic Coordinates:

Latitude: 34 °19 '32.0 "N

Longitude: 118 °59 '44.0 "W

Site Elevation:

312.0 meters

Antenna Details

Antenna ID: SMWAAS
Manufacture/Model: Vertex 11m
Antenna Size: 11.0 meters
Antenna Gain Transmit: 55.7 dBi at 6 GHz
Antenna Gain Receive: 52.0 dBi at 4 GHz
Height Above Ground Level: 15.0 meters
Height Above Sea Level: 327.0 meters
Total Input Power at the Flange: 500.0 watts
Total EIRP for the test Carrier: 46.38 dBW

Operational Details

Frequency (MHz)	Transmit/Receive	Polarization	Emissions Designator	Max EIRP per Carrier (dBW)	Max EIRP Density per Carrier (dBw/4kHz)
3700-4200	R	Horizontal and Vertical	N0N	0.0	0.0
6247-6283	T	Horizontal and Vertical	N0N	46.38	46.38