


APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
SM-C1-7. South Mountain

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-20171008-01125
Call Sign (or other identifier) **Grant Date** 10-16-17
Term Dates **From:** 10-16-17 **To:** 11-15-17
Approved: *Paul E. Blum*



Application: SES Americom, Inc.
File No.: SES-STA-20171008-01125
Call Sign: None
Special Temporary Authority

SES Americom, Inc. is granted special temporary authority for 30 days, beginning October 16, 2017, to test a 7.3 meter antenna in South Mountain, California located at 34° 19" 31.1' N, 118° 59" 46.2' W, with AMC-7 satellite at 135° W.L. (call-sign S2155) using the following frequency bands: 3700-4200 MHz (space-to-Earth) and 5925-6425 MHz (Earth-to-space) under the following conditions:

1. Operations under this authority are on a non-interference basis only.
2. Operations under this authority are on a non-protected basis only.
3. In the event of any harmful interference under this grant of special temporary authority, SES Americom, Inc., must cease operations immediately upon notification of such interference, and must inform the Commission, in writing, immediately of such an event.
4. Any action taken or expense incurred as a result of operations pursuant to this special temporary authority is solely 'at SES Americom, Inc.'s risk.
5. Grant of this special temporary authority is without prejudice to any determination that the Commission may make regarding pending or future SES Americom, Inc. applications.
6. This grant 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-20171008-01125
Call Sign _____ Grant Date 10-16-17
(or other identifier)
Term Dates
From: 10-16-17 To: 11-15-17
Approved: Paul E. Heeb

2. Contact	
Name: George Varkey	Phone Number: 609 987 4327
Company: SES	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	
7. City/Somis	8. Latitude (dd mm ss.s h) 34 19 31.1 N

9. State CA	10. Longitude (dd mm ss.s h) 118 59 46.2 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; margin: 5px 0;">This new C-band antenna at South Mountain will be used for TT&C and carry other customer traffic on the satellites in the permitted list.</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. <p style="text-align: right;">Yes <input checked="" type="radio"/> No <input type="radio"/></p>	
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).	

FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT

The public reporting for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the required data, and completing and reviewing the collection of information. If you have any comments on this burden estimate, or how we can improve the collection and reduce the burden it causes you, please write to the Federal Communications Commission, AMD-PERM, Paperwork Reduction Project (3060-0678), Washington, DC 20554. We will also accept your comments regarding the Paperwork Reduction Act aspects of this collection via the Internet if you send them to PRA@fcc.gov. PLEASE DO NOT SEND COMPLETED FORMS TO THIS ADDRESS.

Remember – You are not required to respond to a collection of information sponsored by the Federal government, and the government may not conduct or sponsor this collection, unless it displays a currently valid OMB control number or if we fail to provide you with this notice. This collection has been assigned an OMB control number of 3060-0678.

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 special temporary authority ("STA") for a period of 30 days beginning October 16, 2017, to permit SES to test a newly constructed C-band antenna located at SES's South Mountain teleport in Somis, CA. Specifically, SES requests authority to conduct brief transmissions in the conventional C-band frequencies with the AMC-7 satellite (call sign S2155) at 135° W.L. to confirm that the antenna performs in compliance with SES's specifications and Commission rules.

A full description of the antenna and the proposed operations is provided in Attachment 1. SES is preparing a license application for the new antenna, but is awaiting completion of the coordination report for the C-band frequencies. SES currently operates multiple C-band antennas at the South Mountain teleport,¹ and the testing operations proposed will be no more interfering to, and no more susceptible to interference from, terrestrial networks than the current C-band operations from the South Mountain site. Accordingly, SES seeks STA to test the new antenna in the conventional C-band frequencies pending completion of the coordination report.

Grant of this request to test the new antenna is in the public interest. Such testing is necessary to ensure that the antenna is operating within SES specifications and the limits of the Commission's rules. Ensuring proper operations is necessary to avoid harmful interference in the future.

The transmissions associated with the proposed antenna tests will not cause harmful interference to the operations of any other spacecraft or terrestrial operators. The antenna will communicate with the U.S. licensed AMC-7 spacecraft in the conventional C-band. In addition, and in any event, SES will conduct all test operations on a non-harmful interference basis, and will cease transmissions promptly in the event any harmful interference is caused by such operations.

For the foregoing reasons, SES respectfully requests special temporary authority to communicate with AMC-7 in order to test its new antenna.

¹ See, e.g., Call Sign E940156, File No. SES-RWL-20040308-00329.

Attachment 1

Site Details

Contact Information:

Dave Coyle

Address:

5990 Solano Verde Dr
Somis, Ventura, CA 93006

Geographic Coordinates:

Latitude: 34.325 deg N

Longitude: 118.996W

Site Elevation:

314 meters

Antenna Details

Antenna ID: SM-C1
 Manufacture/Model: Alpha-Satcom/ ASL 7.3 LMC
 Antenna Size: 7.3 meters
 Antenna Gain Transmit: 51.8dBi at 6.125 GHz

Antenna Gain Receive: 48.1 dBi at 3.95 GHz
 Height Above Ground Level: 7.9 meters
 Height Above Sea Level: 321.9 meters
 Total Input Power at the Flange: 1000 watts
 Total EIRP for the test Carriers: 81.8 dBW

Operational Details

Frequency (GHz)	Transmit /Receive	Polarization	Emission Designator	Max EIRP per Carrier (dBW)	Max EIRP Density per Carrier (dBw/4kHz)
3.7-4.2	R	Horizontal and Vertical	NON	0.0	0.0
5.925-6.425	T	Horizontal and Vertical	NON	52.3	52.3