


APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:  
Request to extend STA to Test E170142 for an Additional 60 Days

1. Applicant

Name: SES Americom, Inc. Phone Number: 202-478-7143  
DBA Name: Fax Number: 202-478-7111  
Street: 1129 20th Street NW E-Mail: petra.vorwig@ses.com  
Suite 1000  
City: Washington State: DC  
Country: USA Zipcode: 20036  
Attention: Ms Petra A Vorwig

File # SES-STA-20170915-01029  
Call Sign E170142 Grant Date 9-21-17  
(or other identifier)  
Term Dates From: 9-21-17 To: 11-20-17  
Approved: [Signature]



**GRANTED**  
International Bureau

Applicant: SES Americom, Inc.  
File No.: SES-STA-20170915-01029  
Call Sign: E170142  
Special Temporary Authority (STA)



File # SES-STA-20170915-01029  
Call Sign E170142 Grant Date 9-21-17  
(or other identifier)  
From: 9-21-17 Term Dates To: 11-20-17  
Approved: [Signature]

SES Americom, Inc. ("SES Americom") is granted extension of STA, commencing September 21, 2017, for 60 days, to test a GD Satcom 6.3 m antenna at Duluth, Minnesota (46° 49' 37.64" N.L./092° 07' 48.47" W.L.) with the AMC-16 (S2181) satellite at the 85° W.L. orbital location in the 28.4-28.6 GHz (Earth-to-space), 29.5-30.0 GHz (Earth-to-space); 18.6-18.8 GHz (space-to-Earth), and 19.7-20.2 GHz (space-to-Earth) frequency bands under the following conditions:

1. The 17.8 - 20.2 GHz band is shared with U.S. Government space stations and associated earth stations in the fixed-Satellite Services. Services within the United States over the satellite network of which this is a cooperating earth station are subject to coordination under US334 and operation of the earth station(s) authorized herein will be subject to any technical constraints resulting from this coordination. See 47 C.F.R. Section 2.106, Footnote US334.
2. Operations under STA are limited with transmit and receive emission carriers N0N (LHCP and RHCP) at maximum 42.3 dBW/4kHz eirp density.
3. SES Americom 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.
4. Grant of this authorization is without prejudice to any determination that the Commission may make regarding IBFS File No.: SES-LIC-20170726-00809 or any other pending or future application filed by SES Americom.
5. 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.
6. The licensee 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. Compliance can be accomplished in most cases by appropriate restrictions, such as fencing. Requirements for restrictions can be determined by predictions based on calculations, modeling, or by field measurements. The FCC's OET Bulletin 65 (available on-line at [www.fcc.gov/oet/rfsafety](http://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.

7. In the event that there is a report of interference, SES Americom must immediately terminate transmissions and notify the FCC in writing.

8. Any action taken or expense incurred as a result of operations pursuant to this special temporary authority is solely at SES Americom's own risk.

9. 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.

<b>2. Contact</b>	
<b>Name:</b> George Varkey	<b>Phone Number:</b> 609-987-4327
<b>Company:</b> SES Americom, Inc.	<b>Fax Number:</b>
<b>Street:</b> 4 Research Way	<b>E-Mail:</b> george.varkey@ses.com
<b>City:</b> Princeton	<b>State:</b> NJ
<b>Country:</b> USA	<b>Zipcode:</b> 08540 -
<b>Attention:</b>	<b>Relationship:</b> 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	
09/21/2017	
7. City/Duluth	
8. Latitude (dd mm ss.s h) 46 49 37.64 N	

9. State MN	10. Longitude (dd mm ss.s h) 92 7 48.47 W
11. Please supply any need attachments. Attachment 1: 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. respectfully requests to extend the special temporary authority granted in File Number SES-STA-20170811-00899 for an additional 60 days to permit SES Americom to continue testing a newly constructed antenna located at a teleport in Duluth, Minnesota, which is described in a pending application, File No. SES-LIC-20170726-00809 (Call Sign</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).	

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## 12. Description

SES Americom, Inc. respectfully requests to extend the special temporary authority granted in File Number SES-STA-20170811-00899 for an additional 60 days to permit SES Americom to continue testing a newly constructed antenna located at a teleport in Duluth, Minnesota, which is described in a pending application, File No. SES-LIC-20170726-00809 (Call Sign E170142). The current STA expires on September 20, 2017.