

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
Ku antenna at Port St. Lucie- PSL-K1

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-20171006-01106

Call Sign 1025A Grant Date 10-25-17
(or other identifier)

Term Dates From: 10-25-17 To: 11-28-17

Approved: [Signature]

Applicant: SES Americom, Inc.
Call Sign: N/A
File No.: SES-STA-20171006-01106

SES Americom, Inc. ("SES") is granted a Special Temporary Authority for 30 days, beginning October 25, 2017 to operate at fixed earth station at Port St. Lucie, FL, at Latitude: 27° 16' 56.0" N Longitude: 80° 28' 58" W, to operate with AMC-15 (S2180) satellite at 105.05° W.L. orbital location in the 14000-14500 MHz (Earth-to-space) and 11700-12200 MHz (space-to-Earth) frequency bands to test antenna performance and compliance under the following conditions:

1. Operations shall not cause harmful interference to or claim protection from other lawfully operating stations and it shall cease transmission(s) immediately upon notice of such interference.
2. Grant of this authorization is without prejudice to any determination that the Commission may make regarding pending or future SES applications.
3. All operators of satellites 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 for the AMC-15 satellite is United Teleport NOC: 305 671 3333.
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 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. *See OET bulletin 65*
5. Any action taken or expense incurred as a result of operations pursuant to this STA is solely at SES's risk.
6. Should an emergency situation exists and the applicant must notify FCC OperationCenter@fcc.gov of the situation with a copy to paul.blais@fcc.gov.

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.



File # SES-STA-20171006-01106
Call Sign _____ Grant Date 10-25-17
(or other identifier)
Term Dates
From: 10-25-17 To: 11-24-17
Approved: [Signature]

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 10/19/2017	
7. City/Port St. Lucie	
8. Latitude (dd mm ss.s h) 27 16 56.0 N	

9. State	FL	10. Longitude (dd mm ss.s h)	80 28 58.0 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. respectfully requests to grant special temporary authority granted for 30 days to permit SES to test its newly constructed Ku-band antenna located at Port St. Lucie, Florida.			
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		15. Title of Person Signing	
Petra A Vorwig		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.

REQUEST FOR SPECIAL TEMPORARY AUTHORITY

SES Americom, Inc. ("SES") respectfully requests special temporary authority ("STA") for a period of 30 days beginning October 19, 2017, to permit SES to test its newly constructed antenna located at Port St. Lucie, Florida. Specifically, SES requests authority to conduct brief transmissions in the conventional Ku-band frequencies with the AMC-15 satellite (call sign S2180) at 105.05° 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 an application for regular authority for the new antenna, but is awaiting completion of the coordination materials for other operating bands that will be used by the antenna. In the interim, SES seeks to test the antenna in the conventional Ku-band frequencies only.

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-15 spacecraft in the conventional Ku-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-15 in order to test its new antenna.

TECHNICAL DATA**Site Details****Contact Information:**

Renato Dias
305-514-0001

Address:

10161 Range Line Rd
Port St. Lucie, FL 34987

Geographic Coordinates:

Latitude: 27.282 N

Longitude: 80.482 W

Site Elevation:

5 meters

Antenna Details

Antenna ID: PSL-K1
 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: [14.7] meters
 Total Input Power at the Flange: [750] watts
 Total EIRP for the test Carriers: [88.85] 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	N0N	0.0	0.0
14.0-14.5	T	Horizontal and Vertical	N0N	52.1	52.1