

## **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**

<b>Frequency (GHz)</b>	<b>Transmit/Receive</b>	<b>Polarization</b>	<b>Emissions Designator</b>	<b>Max EIRP per Carrier (dBW)</b>	<b>Max EIRP Density per Carrier (dBw/4kHz)</b>
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