

## REQUEST FOR SPECIAL TEMPORARY AUTHORITY

By this application, SES Americom, Inc. (“SES”) respectfully requests special temporary authority (“STA”) for a period of 180 days to operate a fixed antenna in the conventional Ku-band on a non-interference basis at its Manassas, Virginia teleport. The antenna will communicate with SES-4 (call sign S2828), a Netherlands-licensed satellite that is on the Commission’s Permitted Space Station List. The technical details of the proposed operations are provided below, and the antenna will be operated in compliance with the Commission’s radiation hazard limits. Grant of the requested authority will allow SES to begin testing the antenna in preparation for customer service delivery.

### Site Details

#### Contact Information:

Gary Cruickshank  
703-367-7311

#### Address:

8000 Gainsford Ct.  
Bristow, VA 20136

#### Geographic Coordinates:

Latitude: 38° 46’ 58.92" N

Longitude: 77° 34’ 26.42" W

#### Site Elevation:

84.0 meters

### Antenna Details

Antenna ID:	V100
Manufacture/Model:	Intellian/V100
Antenna Size:	1.03 meters
Antenna Gain Transmit:	41.3 dBi at 14.125 GHz
Antenna Gain Receive:	39.8 dBi at 11.85 GHz
Height Above Ground Level:	2 meters
Height Above Sea Level:	86 meters
Total Input Power at the Flange:	8 watts
Total EIRP for all Carriers:	50.33 dBW

**Operational Details**

<b>Frequency (MHz)</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>
14000-14500	T	Horizontal and Vertical	100KG7W	38.64	24.64
14000-14500	T	Horizontal and Vertical	1M48G7W	50.33	24.64
14000-14500	T	Horizontal and Vertical	N0N	30.64	30.64
11700-12200	R	Horizontal and Vertical	100KG7W		
11700-12200	R	Horizontal and Vertical	54M0G7W		