

REQUEST FOR SPECIAL TEMPORARY AUTHORITY

SES Americom, Inc. (“SES”) respectfully requests earth station Special Temporary Authority (“STA”) for 30 days to demonstrate a new 30 centimeter antenna designated GetSat MicroSat LM to the U.S. Department of Defense in the conventional Ku-band.¹ The demonstration will occur in Pinehurst, North Carolina, and the antenna will communicate with the SES-15 spacecraft at 129.15° W.L. (Call Sign S2951).² SES seeks STA to conduct the demonstration beginning March 25, 2018, and asks for Commission action consistent with that timing.

Grant of the requested STA on an expedited basis is in the public interest because it will allow the US Government to assess the benefits of the new antenna for operations in remote areas. Furthermore, the proposed operations in the conventional Ku-band will be limited and will not cause harmful interference to any terrestrial or satellite operators. SES will also conduct operations on an unprotected, non-interference basis.

For the foregoing reasons, SES Americom respectfully requests that the Commission grant it a 30-day STA on an expedited basis to demonstrate its GetSat MicroSat LM antenna with SES-15 in the conventional Ku-band beginning March 25, 2018.

¹ The proposed operations are summarized in Attachment 1.

² SES Satellites (Gibraltar) Ltd, (Call Sign S2951) File No. SAT-MPL-20160718-00063, granted Dec. 14, 2016, as modified by File No. SAT-MPL-20170914-00130, granted Nov. 22, 2017.

Attachment 1

Call Sign: New Antenna

Contact Information:

David Codacovi
(202) 478-7124

Address:

1129 20th Street, NW, Suite 1000
Washington, DC 20036

Site Details

Geographic Coordinates (WGS84):³

Latitude: 35.2035584 N

Longitude: 79.4545196 W

Site Elevation:

171 meters

Antenna Details

Antenna ID: GetSat1
Manufacture/Model: GetSat/MicroSat LM
Antenna Size: 30 centimeters
Antenna Gain Transmit: 27.3 dBi at 14.25 GHz
Antenna Gain Receive: 25.65 dBi at 11.9 GHz
Height Above Ground Level: 0.3 meters
Height Above Sea Level: 171.3 meters
Total Input Power at the Flange: 1.59 watts
Total EIRP for all Carriers: 28.5 dBW

Operational Details⁴

Frequency (MHz)	Transmit/Receive	Polarization	Emissions Designator	Max EIRP per Carrier (dBW)	Max EIRP Density per Carrier (dBW/4kHz)
14000-14500	T	Horizontal and Vertical	2M40G1D	28.5	-26.0
11700-12200	R	Horizontal and Vertical	2M40G1D		

³ See attached Google Map screenshot.

⁴ SES confirms that the antenna will operate in compliance with Section 25.209 of the Commission's rules.

Frequency Coordination

Range of Satellite Arc	Azimuth	Elevation Angle	Maximum EIRP Density Toward the Horizon
129.15° W.L.	244.4°	23.6°	-62.0 dBW/Hz

