

**Before the
FEDERAL COMMUNICATIONS COMMISSION
Washington, D.C. 20554**

In the Matter of	)	
	)	
SES AMERICOM, INC.	)	Call Sign E220010
	)	
Application for Special Temporary	)	
Authority to Test and Evaluate a	)	
90 Centimeter Antenna Using	)	
Ka-band Frequencies	)	

REQUEST OF SES AMERICOM, INC.

SES Americom, Inc. (“SES”) respectfully requests special temporary authority (“STA”) for a period of 60 days beginning on May 22, 2022, to operate a Global Skyware 90-centimeter antenna at Manassas, Virginia, in conventional Ka-band frequencies. The STA will allow SES to test and evaluate the capabilities of the antenna, which will be used for monitoring and supporting the SES-17 geostationary orbit (“GSO”) satellite network.¹

SES has applied for a license to operate the new antenna in the 17.8-20.2 GHz downlink frequencies and 29.5-30 GHz uplink frequencies,² but the testing proposed here will only use the 18.3-18.8 GHz and 19.7-20.2 GHz downlink frequencies and 29.5-30 GHz uplink frequencies. SES will not use the 18.8-19.7 GHz band for testing. SES seeks STA to test the antenna with the SES-17 GSO satellite at 67.1° W.L. and with other Ka-band satellites on the Approved Space Station List. The technical parameters for the proposed testing operations are provided in Annex 1.

The antenna will be installed and ready for testing on May 22, 2022, and SES proposes to test and evaluate the antenna over a 60-day timeframe. It is important to test the antenna shortly after installation to allow SES sufficient time to evaluate the antenna’s

¹ *SES-17 S.à r.l.*, Call Sign S3043, File No. SAT-PDR-20190305-00014, granted May 8, 2020, and File No. SAT-MPL-20200609-00070, granted July 30, 2020.

² SES Americom, Inc., Call Sign E220010, File No. SES-LIC-20220126-00082.

performance prior to SES-17's start of service later this summer. SES is willing to operate pursuant to the requested STA on an unprotected, non-harmful interference basis.

For the foregoing reasons, SES respectfully requests grant of this STA.

Respectfully submitted,

SES AMERICOM, INC.

By: /s/ Daniel C. H. Mah

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Dated: May 13, 2022

ANNEX 1

24/7 Emergency Contact

Telephone: 410-970-7571

Email: Woodbine@ses.com

Geographic Coordinates:

38° 47' 2" N

77° 34' 20" W

Frequencies to be used during testing:

18.3-18.8 GHz (downlink)

19.7-20.2 GHz (downlink)

29.5-30 GHz (uplink)

Emission Designators:

N0N

36M0G7W

3M72G7W

54M0G7W

72M0G7W

100K0G7W

Antenna Gain Specifications

42.75 dBi at 18.5 GHz

43.41 dBi at 19.95 GHz

46.92 dBi at 29.75 GHz