

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

In the Matter of	)	
	)	
SES AMERICOM, INC.	)	Call Sign E950056
	)	
Application for Special Temporary	)	
Authority to Test and Evaluate a 9-meter	)	
Antenna Using C-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 1, 2022, to operate an Alpha Satcom 9-meter antenna in a limited portion of conventional C-band frequencies. The STA will allow SES to test and evaluate the capabilities of the antenna, which will provide telemetry, telecommand and control services for the SES-22 geostationary orbit (“GSO”) satellite.¹

SES has a modification application pending to add the Alpha Satcom 9-meter antenna to the E950056 license for operation in the 3625-4200 MHz downlink frequencies and 5925-6425 MHz uplink frequencies,² but the testing proposed here will only use the 4000-4200 MHz downlink and 5925-6425 MHz uplink frequencies. SES will not use the 3625-4000 MHz band for testing. SES seeks authority to test the antenna with the SES-1 GSO satellite at 101° W.L.³ and other C-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 1, 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 Americom, Inc. Call Sign S3138, File No. SAT-LOA-20220315-00030.

² SES Americom, Inc., Call Sign E950056, File No. SES-MOD-20210930-01676.

³ SES Americom, Inc., Call Sign S2807, File No. SAT-MOD-20120315-00047, granted March 15, 2012.

performance prior to launch of the SES-22 satellite later this year. 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: April 18, 2022

ANNEX 1

Geographic Coordinates:

41° 27' 49.9" N

75° 7' 48.4" W

Frequencies to be used during testing:

4000-4200 MHz downlink

5925-6425 MHz uplink

Emission Designators:

N0N

3M72G7W

54M0G7W

72M0G7W

100K0G7W

1M00F9D

36M0G7W

Antenna Gain Specifications

49.34 dBi at 3.9125 GHz

49.74 @ 4.1GHz

53.63 dBi at 6.125 GHz