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

In the Matter of	)	
	)	
SES AMERICOM, INC.	)	File Nos. SAT-MOD-_____
	)	Call Sign S3096
Application for Modification of SES-18 Fixed-Satellite Service Space Station License	)	
	)	
	)	

APPLICATION OF SES AMERICOM, INC.

SES Americom, Inc. ("SES") respectfully requests a modification of its license for the SES-18 C-band fixed-satellite service space station to permit use of additional C-band telemetry, telecommand and control ("TT&C") frequencies: 6415-6425 MHz for Earth-to-space telecommand communications and 4190-4200 MHz for space-to-Earth telemetry communications.

Grant of the requested authority will serve the public interest by allowing SES to manage its C-band fleet in response to operational requirements and to better communicate with and control SES-18. SES incorporates by reference the information previously provided in support of SES-18,[1] and a completed Form 312, Schedule S, and Technical Appendix describing the changes associated with this modification are attached.[2] SES certifies pursuant to Section 25.117(c) of the Commission's rules that apart from the matters addressed in this

[1] *SES Americom, Inc.*, Call Sign S3096, File Nos. SAT-RPL-20210812-00099, granted March 4, 2022 ("SES-18 License") & SAT-MOD-20230201-00011 ("SES-18 Fleet Management Notice") (advising the Commission that SES intends to deploy SES-18 to 103.05° W.L. rather than to 131° W.L.).

[2] The attached technical materials describe operation of SES-18 at the 103.05° W.L. location specified in the SES-18 Fleet Management Notice.

modification application, the previously supplied information regarding SES-18 remains unchanged.

SES-18 is currently authorized to perform TT&C using the 6421 MHz (Earth-to-space) and 4197.25 MHz and 4199.5 MHz (space-to-Earth) frequencies. However, the spacecraft is capable of performing TT&C anywhere in the C-band spectrum. SES requests the flexibility to select specific SES-18 TT&C frequencies within the 6415-6425 MHz range for Earth-to-space telecommand communications and within the 4190-4200 MHz range for space-to-Earth telemetry communications.[3]

Grant of the requested flexibility will serve the public interest and is consistent with Commission precedent. SES-18 will be positioned at the same nominal orbital location as other SES spacecraft upon deployment, and over the course of its life, the satellite or satellites with which SES-18 is sharing a location may change. Allowing SES to adjust its TT&C frequencies within the specified ranges will enhance SES's ability to communicate and control the satellite and facilitate collocation of SES-18 with different satellites during its mission lifetime.

The Commission has previously authorized TT&C operations over a much wider range in order to make collocation with other satellites easier.[4] Grant of the flexibility SES seeks for SES-18 will serve a similar function.

[3] These segments are at the edge of the C-band frequency range for which SES-18 is authorized and therefore comply with Section 25.202(g), 47 C.F.R § 25.202(g).

[4] *See, e.g., Space Logistics, LLC*, Call Sign S2990, File Nos. SAT-LOA-20170224-00021 & SAT-AMD-20190207-00008, granted June 20, 2019, Attachment to Grant at 1 & n.3 (permitting TT&C operations for Mission Extension Vehicle-1 across the full range of C-band and Ku-band frequencies on the satellite subject to coordination).

CONCLUSION

For the foregoing reasons, SES respectfully requests a modification of the SES-18 License to permit SES to use the 6415-6425 MHz band for Earth-to-space telecommand communications and the 4190-4200 MHz band for space-to-Earth telemetry communications.

Respectfully submitted,

SES AMERICOM, INC.

By: */s/ Kelsie Rutherford*

Kelsie Rutherford
Regulatory Counsel
SES Americom, Inc.
1129 20th Street, N.W., Suite 1000
Washington, DC 20036

Of Counsel
Karis A. Hastings
SatCom Law LLC
6930 Carroll Avenue, Suite 720
Takoma Park, MD 20912-4499
Tel: (202) 599-0975

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