

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

In the Matter of	)	
	)	
SES AMERICOM, INC. and	)	File No. SAT-MOD-_____
ECHOSTAR SATELLITE SERVICES L.L.C.	)	Call Sign S2181
	)	
Application for Modification of AMC-16	)	
Fixed-Satellite Space Station License	)	

**APPLICATION OF SES AMERICOM, INC.**

SES Americom, Inc. (“SES”) and EchoStar Satellite Services L.L.C.<sup>1</sup> (“EchoStar,” and with SES, “the Licensees”) respectfully request modification of their joint license for the AMC-16 hybrid Ku/Ka-band fixed-satellite service space station to extend the license term to January 1, 2022. Grant of the requested modification will serve the public interest by allowing SES and EchoStar to continue offering services using AMC-16, thus promoting efficient use of satellite and orbital resources. A completed FCC Form 312 is attached, and the Licensees incorporate by reference the information previously provided in support of AMC-16.<sup>2</sup>

AMC-16 is a hybrid Ku/Ka-band satellite that is licensed by the Commission to operate at 85° W.L.<sup>3</sup> with a license term that expires February 7, 2020. The Licensees request an

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<sup>1</sup> This license was formerly held by EchoStar Satellite Operating Corporation. *See* File No. SAT-ASG-20191220-00150, deemed granted pursuant to Section 25.119(i) effective Dec. 23, 2019.

<sup>2</sup> The most recent technical information regarding AMC-16 is found in File No. SAT-MOD-20170301-00025. *See also* File Nos. SAT-MOD-20121224-00221; SAT-MOD-20060929-00113; SAT-MOD-20050621-00132; SAT-AMD-20051115-00218; SAT-RPL-20040227-00024; SAT-MOD-20040227-00022 & SAT-LOA-19950929-00133.

<sup>3</sup> *See* File No. SAT-MOD-20121224-00221, granted March 22, 2013. The Ku-band portion of the license was assigned to EchoStar in 2015. *See* File No. SAT-ASG-20141020-00111, granted March 24, 2015.

extension of the AMC-16 license term to January 1, 2022. SES, which is responsible for operating the satellite, has calculated that there is sufficient fuel onboard AMC-16 for the spacecraft to continue providing reliable service during the proposed extended license term and to deorbit the spacecraft to a disposal altitude of at least 281 kilometers above the geostationary arc, as previously authorized.

AMC-16 experienced a temporary anomaly affecting a solar array circuit in September 2019. This anomaly is known to affect Lockheed A2100 satellite buses. SES performed an internal analysis and modified its operating processes to ensure that AMC-16 can achieve all post mission disposal requirements.

Apart from these issues, the satellite's overall health is good, with all satellite subsystems functioning nominally. There is no single point of failure in the satellite's design, and there is no problem with the satellite's TT&C links, including the back-up TT&C links. As a result, extending the license term for AMC-16 will serve the public interest by allowing the Licensees to continue to use the spacecraft to provide service to customers, promoting the efficient use of satellite and orbital resources.

For the foregoing reasons, the Licensees seek a modification of the AMC-16 license to extend the satellite's license term through January 1, 2022.

Respectfully submitted,

SES AMERICOM, INC.

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