

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

In the Matter of	)	
	)	
SES AMERICOM, INC.	)	Call Sign E050287
	)	
Application for Special Temporary Authority to	)	
Perform Orbit Raising Maneuvers for ASTRA 1D	)	

REQUEST OF SES AMERICOM, INC.

SES Americom, Inc. (“SES”) respectfully requests special temporary authority (“STA”) for a period of 30 days beginning no later than November 1, 2021 to permit SES to use earth station E050287 to provide telemetry, tracking and command (“TT&C”) for the Luxembourg-authorized ASTRA 1D satellite, located at 73.0° W.L. (+/- 0.10° east/west station keeping), during orbit raising maneuvers to move the satellite into disposal orbit.

SES’s affiliate, SES ASTRA S.A., holds an authorization from the Luxembourg Ministry of State, Office of Media and Communications¹ for ASTRA 1D and has requested that SES assist with retirement of the spacecraft.

The Commission has authorized SES to use its E050287 earth station to perform TT&C services for ASTRA 1D.² The proposed orbit raising operations will use the same frequencies and conform to the operational parameters previously authorized.³ SES

¹ Ministère d’État, Service des Médias et des Communications of the Grand Duchy of Luxembourg.

² SES Americom, Inc., Call Sign E050287, File No. SES-STA-20210804-01338, granted Sept. 8, 2021.

³ The ASTRA 1D TT&C frequencies are as follows:

Telecommand:	14013 MHz (omni) horizontal polarization
	14493 MHz (spot) vertical polarization
Telemetry:	11447.5 MHz (spot) horizontal polarization/ (omni) vertical polarization
	11454 MHz (spot, omni) vertical polarization

In compliance with Section 25.202(g)(1) of the Commission’s rules, the proposed TT&C operations will cause no greater interference and require no greater protection from harmful interference than would communications traffic in these bands.

incorporates by reference the information previously provided, including SES's request for limited waivers of Sections 25.137, 25.114, 25.210(j), and 47 C.F.R. § 2.106 NG52.

Grant of this Application Will Serve the Public Interest. Grant of this request is in the public interest as it will facilitate the safe orbit raising and retirement of ASTRA 1D.

No Harmful Interference to Other Spacecraft. TT&C transmissions during orbit raising of ASTRA 1D will be on a non-harmful interference basis and will be coordinated with other satellite operators consistent with industry practice.⁴ Apart from SES's AMC-3 satellite at 72.0° W.L., the nearest satellite to 73.0° W.L. with overlapping Ku-band operations is ARSAT 1 operated at 71.8° W.L. by Empresa Argentina de Soluciones Satelitales Sociedad Anónima (ARSAT). SES has coordinated operations with ARSAT 1.

SES hereby certifies that no party to this application is subject to a denial of federal benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. § 862.

For the foregoing reasons, SES seeks STA for its E050287 earth station license to communicate with ASTRA 1D beginning no later than November 1, 2021 to enable SES to support orbit raising maneuvers to move the ASTRA 1D satellite into disposal orbit.

SES AMERICOM, INC.

By: /s/ Daniel Mah

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⁴ The 24/7 point of contact for the proposed ASTRA 1D operations is the SES Payload Management Operations Centre (PMOC) in Woodbine, MD, 1 410 970 7580; e-mail: PMOC@ses.com.

Attachment 1: TT&C Emission Characteristics for E050287 Antenna

1. Site Location

2323 Grimville Road
(Woodbine)
Mt. Airy, Carroll, MD, 21771

Latitude: 39° 22' 37.1" N
Longitude: 77° 4' 49.1" W
Elevation (meters): 198.12

Antenna ID: WB K8

Max Gains(s): 61.5 dBi at 12.2 GHz; 63.5 dBi at 14.5 GHz; 62.0 dBi at 11.325 GHz

Maximum total input power at antenna flange (Watts): 238.78

Maximum aggregate output EIRP for all carriers (dBW): 87.3

2. TT&C Frequencies

Telecommand:	14013 MHz (omni) horizontal polarization
	14493 MHz (spot) vertical polarization
Telemetry:	11447.5 MHz (spot) horizontal polarization/ (omni) vertical
polarization	11454 MHz (spot, omni) vertical polarization

3. Points of Communication

Common Name: ASTRA 1D

Orbital Location: 73.0° W.L.

ITU Name: GIBSAT-72.5W