

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

In the Matter of	)	
	)	
SES NETWORKS LUX, S.A.R.L.	)	File No. SES-STA-2025XXXX-
	)	XXXXX
Request for Special Temporary Authority	)	
	)	

REQUEST OF SES NETWORKS LUX, S.A.R.L.

SES Networks Lux, S.a.r.l. (“SES”) respectfully requests special temporary authority (“STA”) for a period of 180 days beginning September 2, 2025, to begin certification testing of a Calian Antenna Solutions (“Calian”) 4-meter antenna to communicate with SES’s non-geostationary orbit (“NGSO”) network.¹ Testing will be conducted in Bristow, Virginia (38°47'00.3"N 77°34'24.3"W). Grant of the requested STA is consistent with Commission precedent and will serve the public interest by allowing SES to certify new antennas to communicate with the network expanding and enhancing the NGSO network.

The Calian antenna will communicate with SES's NGSO network using the 28.35-29.1 and 29.5-30.0 GHz frequency bands.² The proposed operation of the Calian antenna will not cause harmful interference.

The 24/7 point of contact for the proposed operations is the SES Network Operations Centre (NOC) in Bristow, VA, +1 (703) 366-1500; e-mail: noc-sesnetworks@ses.com.

Transmit equipment to be used

¹ SES’s NGSO system has been granted U.S. market access pursuant to Section 25.137 of the Commission’s rules to provide Fixed-Satellite Service and Mobile-Satellite Service capacity. *See O3b Limited*, Order and Declaratory Ruling, 33 FCC Rcd 5508 (2018) (“*Market Access Grant*”). This market access authorization is currently held by ASTRA (GB) Limited. On April 30, 2025, O3b Limited, a wholly owned UK subsidiary of SES S.A., filed a notification of the pro forma assignment of its market access authorization to ASTRA (GB) Limited, also a wholly owned UK subsidiary of SES S.A. *See* Application for Modification of O3b Limited, ICFS File No. SAT-MOD-20250430-00114 (filed Apr. 30, 2025).

² *See Market Access Grant* ¶ 46a.

Manufacturer	Model
Calian Antenna Solutions	ITA-0400-02

Maximum effective isotropic radiated power (EIRP).

Maximum transmitted EIRP will be 79.5 dBW and antenna gain of 59.5 dBi.
The transmitted power is 100 W and the maximum EIRP density will be 38.5 dBW/4kHz.

Overall height of antenna of antenna structure above the ground.

The overall height of the antenna above the rooftop terrace floor and existing structures will not exceed six meters.

Directional Antenna Information

Is a directional antenna used? Yes.

Width of the beam in degrees at the half power point	Orientation in horizontal plane (degrees from True North)	Orientation in vertical plane (degrees from horizontal)
0.18	0° to 360°	5° to 90°

Respectfully submitted,

SES Networks Lux, S.a.r.l.

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Dated: August 27, 2025