



September 22, 2022

Ms. Marlene H. Dortch
Secretary
Federal Communications Commission
45 L Street NE
Washington, DC 20554

Re: Request for Special Temporary Authority
Hagerstown, Maryland Earth Station E000296

Dear Ms. Dortch:

Intelsat License LLC ("Intelsat") herein requests 30 days of Special Temporary Authority ("STA"),¹ commencing August 30, 2022, to use its Hagerstown, Maryland C-band earth station, Call Sign E000296, to provide launch and early orbit phase ("LEOP") services for the SES-20 and SES-21 satellites.² SES-20 and SES-21 are expected to launch on August 30, 2022.³ Intelsat expects the LEOP period to last approximately 30 days.⁴

The SES-20 and SES-21 operations will be performed at the following frequencies: 6421.00 MHz and 6423.50 MHz in the uplink; and 4197.25 MHz and 4199.50 MHz in the downlink.

The 24x7 contact information for the SES-20 and SES-21 missions is as follows:

Ph.: (703) 559-7701 – East Coast Operations Center (primary)
(310) 525-5591 – West Coast Operations Center (back-up)

Request to speak with Kevin Bell or Glen Jones.

¹ Intelsat has filed its STA request, FCC Form 159, a \$210.00 filing fee, and this supporting letter electronically via the International Bureau's Filing System.

² In support of this request, additional antenna and satellite information, a waiver request, and a coordination report are attached as Exhibits A-C, respectively.

³ Both satellites' in-orbit testing will occur at 142° W.L.

⁴ Due to changing launch manifests, Intelsat is seeking authority for additional earth stations to ensure antenna availability. Intelsat is also supporting both satellites' LEOP using the following earth stations: E040125 and E040174. See *Satellite Communications Services Information; Actions Taken*, Report No. SES-02500, File No. SES-STA-20220628-00710 (Sept. 14, 2022) (Public Notice), see also Intelsat License LLC Request for Special Temporary Authority, File No. SES-STA-20220908-00944 (filed Sept. 8, 2022).

The LEOP operations will be coordinated with all operators of satellites that use the same frequency bands and are in the LEOP path.⁵ All operators of satellites in that path will be provided with an emergency phone number where the licensee can be reached in the event that harmful interference occurs. In the extremely unlikely event that harmful interference should occur due to transmissions to or from its earth station, Intelsat will take all reasonable steps to eliminate the interference.

Finally, Intelsat clarifies that during the SES-20 and SES-21 LEOP missions, Boeing will serve as the mission manager. Boeing will build and send the commands to the Intelsat antenna, which will process and execute the commands. Telemetry received by Intelsat will be forwarded to Boeing. Intelsat will perform the ranging sessions by sending a tone to the spacecraft periodically. Intelsat will remain in control of the baseband unit, RF equipment, and antenna.

Grant of this STA request will allow Intelsat to help launch the SES-20 and SES-21 satellites. This will help provide services at the 103.05° W.L. and 131.0° W.L. locations and thereby promotes the public interest.

Please direct any questions regarding this STA request to the undersigned at (703) 559-6949.

Respectfully submitted,

/s/ Cynthia J. Grady
Cynthia J. Grady
Assistant General Counsel
Intelsat US LLC

cc: Franco Hinojosa
Kerry Murray

⁵ Boeing the manager of the SES-20 and SES-21 missions, will handle the coordination.

EXHIBIT A

Intelsat Request for STA to provide LEOP for SES-20 and SES-21

Earth Station Call Sign	E000296
Antenna size	9 m
Transmit Frequencies (MHz)	6421.00 and 6423.50
Receive Frequencies (MHz)	4197.25 and 4199.50
Emission Designator	1M00F2D
Polarization	Circular
Bandwidth	1 MHz
Transmit Gain	53.5 dBi at 6.175 GHz
Maximum EIRP per Carrier (dBW)	85
Maximum EIRP Density per Carrier (dBW/4 kHz)	61.02
Site Location	Hagerstown, MD
Latitude/Longitude (NAD83)	39° 35' 54.0" N, 77° 45' 35.0" W
Satellite Point(s) of Communication	SES-20 (S3098)
	SES-21 (S3099)
Satellite Type	Geostationary
Satellite Location	n/a