



September 8, 2022

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

Re: Request for Special Temporary Authority
Castle Rock, Colorado Earth Station E040174

Dear Ms. Dortch:

Intelsat License LLC ("Intelsat") herein requests 30 days of Special Temporary Authority ("STA"),¹ commencing September 30, 2022, to use its Castle Rock, Colorado C-band earth station, Call Sign E040174, 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 September 30, 2022.³ Intelsat expects the LEOP period to last approximately 30 days.

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 LEOP operations will be coordinated with all operators of satellites that use the same frequency bands and are in the LEOP path.⁴ 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.

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

⁴ Boeing, the manager of the SES-20 and SES-21 missions, will handle the coordination.

Ms. Marlene H. Dortch
September 8, 2022
Page 2

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 allow SES-20 and SES-21 to provide additional upper C-band capacity in furtherance of the Federal Communications Commission's goal of clearing 3.7-4.0 GHz and thereby promotes the public interest.

Please direct any questions regarding this STA request to the undersigned at (703) 559-7799.

Respectfully submitted,

/s/ W. Ray Rutngamlug

W. Ray Rutngamlug
Associate General Counsel
Intelsat US LLC

cc: Franco Hinojosa
Kerry Murray

EXHIBIT A

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

Earth Station Call Sign	E040125
Antenna size (m)	9
Transmit Frequencies (MHz)	6421.00, 6423.50
Receive Frequencies (MHz)	4197.25, 4199.50
Emission Designator	1M00F2D
Polarization	Circular
Bandwidth	1 MHz
Transmit Gain	53.8 dBi
Maximum EIRP per Carrier (dBW)	86
Maximum EIRP Density per Carrier (dBW/4 kHz)	61.92
Site Location	Castle Rock, Colorado
Latitude/Longitude (NAD83)	39° 16' 33.0" N, 104° 48' 34.0" W
Satellite Point(s) of Communication	SES-20 and SES-21
Satellite Call Sign	S3098 and S3099
Satellite Type	Geostationary
Satellite Location	n/a