



June 28, 2022

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

Re: Request for Special Temporary Authority
Haleiwa, Hawaii Earth Station E210007

Dear Ms. Dortch:

Intelsat License LLC ("Intelsat") herein requests 30 days of Special Temporary Authority ("STA"),¹ commencing August 15, 2022, to use its Haleiwa, Hawaii C-band earth station, Call Sign E210007, 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 15, 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: 6421.0 MHz and 6423.5 MHz in the uplink; and 4197.3 MHz and 4199.5 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 is provided in Exhibit A and a coordination report is attached as Exhibit B.

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

⁴ Thales Alenia Space ("Thales"), the manager of the SES-20 and SES-21 missions, will handle the coordination.

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Finally, Intelsat clarifies that during the SES-20 and SES-21 LEOP missions, Thales will serve as the mission manager. Thales 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 Thales. 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 135° W.L. and 103.05° 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: Kerry Murray

EXHIBIT A

Antenna

Antenna size	13.2m
Transmit Frequencies	6421.0 MHz 6423.5 MHz
Receive Frequencies	4197.3 MHz 4199.5 MHz
Polarization	Circular
Bandwidth	1 MHz
Transmit Gain	56.6 dBi @ 6.1 GHz
Maximum EIRP per Carrier	85 dBW/MHz
Maximum EIRP Density per Carrier	61 dBW/4 KHz
Site Location	Haleiwa, Hawaii
Latitude (NAD83)	21° 40' 13.7" N
Longitude (NAD83)	158° 2' 3.4" W

Point(s) of Communication

Satellite	SES-20
Call Sign	S3098
Satellite Type	Geostationary
Orbital Location	135° W.L.

Satellite	SES-21
Call Sign	S3099
Satellite Type	Geostationary
Orbital Location	103.05° W.L.