

February 10, 2023

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

Re: Request for Special Temporary Authority  
Fillmore, California Earth Station E4132

Dear Ms. Dortch:

Intelsat License LLC ("Intelsat") herein requests 30 days of Special Temporary Authority ("STA"),<sup>1</sup> commencing March 18, 2023, to use its Fillmore, California C-band earth station, Call Sign E4132, to provide launch and early orbit phase ("LEOP") services to the NVS-01 satellite.<sup>2</sup> NVS-01 is expected to launch on March 18, 2023. Intelsat expects the LEOP period to last approximately seven days.<sup>3</sup>

The NVS-01 operational frequencies are:

- 5856.9880 MHz and 5853.0280 MHz (uplink); and
- 4186.8480 MHz and 4199.5824 MHz (downlink).<sup>4</sup>

The 24x7 contact information is:

Ph.: (703) 559-7701 – East Coast Operations Center (primary)  
(310) 525-5591 – West Coast Operations Center (back-up)  
Request to speak with Glen Jones or Mike Ryan.

The LEOP operations will be coordinated with all operators of satellites that use the same frequency bands and are in the LEOP path.<sup>5</sup> 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.

<sup>1</sup> 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.

<sup>2</sup> Intelsat understands that NVS-01 is licensed by India.

<sup>3</sup> Intelsat is requesting 30 days of STA to accommodate potential launch delays.

<sup>4</sup> In support of this request, additional operational information, a waiver request, and a coordination report are attached as Exhibits A-C, respectively.

<sup>5</sup> ISRO, the manager of the NVS-01 mission, will handle the coordination.

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Finally, Intelsat clarifies that during the NVS-01 LEOP mission, ISRO will serve as the mission manager. ISRO 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 ISRO. 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 NVS-01 satellite. This will help provide services at the 129.5° E.L. location and thereby promotes the public interest.

Please direct any questions the undersigned at (703) 559-7799.

Respectfully submitted,

/s/ W. Ray Rutngamlug

W. Ray Rutngamlug  
Associate General Counsel  
Intelsat US LLC

cc: Franco Hinojosa

## EXHIBIT A

### Intelsat License LLC Request for Special Temporary Authority

|                                              |                                   |
|----------------------------------------------|-----------------------------------|
| Earth Station                                | E4132                             |
| Antenna size (m)                             | 10.3                              |
| Transmit Frequencies (MHz)                   | 5856.9880 and 5853.0280           |
| Receive Frequencies (MHz)                    | 4186.8480 and 4199.5824           |
| Emission Designator(s)                       | 1M00F2D                           |
| Polarization                                 | Circular                          |
| Bandwidth                                    | 1 MHz                             |
| Transmit Gain                                | 54 dBi at 6.423 GHz               |
| Maximum EIRP per Carrier (dBW)               | 85                                |
| Maximum EIRP Density per Carrier (dBW/4 kHz) | 61.02                             |
| Site Location                                | Fillmore, CA                      |
| Latitude/Longitude (NAD83)                   | 34° 24' 22.0" N, 118° 53' 37.4" W |
| Satellite Point(s) of Communication          | NVS-01                            |
| Satellite Type                               | Geostationary                     |
| Satellite Location                           | n/a                               |