



October 10, 2022

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

Re: Request for 3-day Grant of Special Temporary Authority
Castle Rock, Colorado Earth Station KL92

Dear Ms. Dortch:

Intelsat License LLC ("Intelsat") herein requests three (3) days of Special Temporary Authority ("STA"),¹ commencing October 14, 2022, to use its Castle Rock, Colorado Ku-band earth station, Call Sign KL92, to provide launch and early orbit phase ("LEOP") services for the Hotbird F1 satellite.² Hotbird F1 is now expected to launch on October 15, 2022.³ Intelsat is seeking three days of STA to accommodate an unexpected two-day advance in the launch date.⁴

Intelsat has a pending STA request to use KL92 for 180 days, beginning October 17, 2022, to provide telemetry, tracking, and command services ("TT&C") to Hotbird F1 during its LEOP.⁵ The Hotbird F1 LEOP mission will be performed at the following TT&C frequencies: 13998.3 MHz, 14000.8 MHz, and 14003.4 MHz in the uplink; and 11701.7 MHz, 11704.6 MHz, 12500.0 MHz, and 12501.7 MHz in the downlink.

The proposed operations will be coordinated with all operators of satellites that use the same frequency bands and are in the LEOP path.⁶ 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.

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 operational information, a waiver request, and a 13 GHz report are provided in Exhibits A-C, respectively.

³ Intelsat understands that Hotbird F1 is licensed by France.

⁴ Intelsat is requesting one day prior to launch to accommodate a potential acceleration in the launch date.

⁵ See *Satellite Communications Services; Satellite Radio Applications Accepted for Filing*, Report No. SES-02495, File No. SES-STA-20220815-00875 (Aug. 31, 2022) (Public Notice).

⁶ Airbus, the manager of the Hotbird F1 mission, will handle the coordination.

The 24x7 contact information for the Hotbird F1 mission 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.

Finally, Intelsat clarifies that during the Hotbird F1 LEOP mission, Airbus will serve as the mission manager. Airbus 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 Airbus. 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 Hotbird F1 satellite. This will help provide services at the 13.0° E.L. location 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

EXHIBIT A

Intelsat's Request for STA to provide LEOP for Hotbird F1

Earth Station	KL92
Antenna size (m)	12.5
Transmit Frequencies (MHz)	13998.3, 14000.8, and 14003.4
Receive Frequencies (MHz)	11701.7, 11704.6, 12500.0, and 12501.7
Emission Designator(s)	1M00F2D
Polarization	Circular
Bandwidth	1 MHz
Transmit Gain	63.7 dBi @ 13.750 GHz
Maximum EIRP per Carrier (dBW)	85
Maximum EIRP Density per Carrier (dBW/4 kHz)	61.02
Site Location	Castle Rock, CO
Latitude/Longitude (NAD83)	39° 16' 35.215" N, 104° 48' 22.867" W
Satellite Point(s) of Communication	Hotbird F1
Satellite Call Sign	n/a, see Exhibit B
Satellite Type	Geostationary
Satellite Location	n/a