

August 23, 2026

TO: Ms. Marlene H. Dortch
Secretary, Federal Communications Commission
445 12th Street, S.W.
Washington, D.C. 20554

Re: Request for Special Temporary Authority

Dear Ms. Dortch,

Pursuant to Section 25.120 of the Commission's Rules, Kongsberg Satellite Services AS (KSAT) requests Special Temporary Authority (STA) for a period of sixty (60) days, or until a permanent license is granted, to operate its satellite earth station located in Las Cruces, New Mexico (Call Sign TBD). This STA would permit communication with the non-geostationary satellite orbit (NGSO) satellites operated by Muon Space Inc. (Muon), under Call Sign S00763. These satellites include FireSat-1, FireSat-2, and FireSat-3, and operate within the Earth Exploration-Satellite Service (EESS), as licensed by the Commission.

This STA request is intended to provide interim authority for operation of the Earth Station in Las Cruces pending the submission and grant of the Earth Station license.

This initial 60-day STA application is being filed at this time due to the installation and operational readiness of the Earth Station. Prior to submitting the full Earth Station license application, KSAT must demonstrate the capability and readiness of the site to support communications with the FireSat satellites. The requested STA will allow KSAT to conduct the necessary operations and testing to validate the site's readiness while the permanent Earth Station licensing process is completed.

Frequency coordination and Society of Broadcast Engineers (SBE) have been initiated, and the coordination report will be submitted to this STA once completed. Additionally, a Radiation analysis has been attached.

The Las Cruces Earth Station will operate in the following frequency bands:

- **Transmit:** 2025–2110 MHz (S-band)
- **Receive:** 8025–8400 MHz (X-band)

All frequencies requested under this STA, as well as the operation of the Las Cruces Earth Station, have been coordinated with the appropriate federal agencies, in accordance with the Commission's grant issued to Muon Space.

The following tables provide a list of the frequencies requested in this STA as well as the antenna specifications in support of this application.

Transmission Direction	Satellite	Center Frequency (MHz)	Emission	Polarity	Max EIRP per Carrier	Max EIRP density per Carrier
Earth-to-Space	FireSat-1	2061.5	280KG1D	RHCP	47.7 dBW	29.24
	FireSat-2	2062.5	980KG1D	RHCP	47.7 dBW	23.80
	FireSat-3					
Space-to-Earth	FireSat-1	8385.0	2M80G1D	RHCP	0.0 dBW	0.0
	FireSat-2	8390.0				
	FireSat-3	8175.0	300MG1D			

Antenna Specifications and Location	
Make and Model	Orbital Systems 3.7m; LC1
Antenna Gain	35.4 dBi @ 2.0 GHz 44.3 dBi @ 8.0 GHz
Latitude	32 ° 16 ' 3.5 " N
Longitude	106 ° 54 ' 53.2 " W

Grant of this application will serve the public interest in accordance with Section 307(a) of the Commissions Act. The operation of the Las Cruces Earth Station will enable reliable, frequent, predictable contact with the spacecraft to support potential collision avoidance, perform orbit maintenance, and conduct payload operations for the FireSat satellites.

The strategic location of the KSAT Earth Station in Las Cruces, New Mexico, will provide Muon Space with essential ground segment support for both current and forthcoming satellites. For these reasons, KSAT respectfully requests that the Commission grant this application no later than September 01, 2026.

If approved, communications will be on a secondary non-interference basis, and we will discontinue operation in the event of any reported interference. KSAT will also comply with applicable terms and conditions of the authorization for Muon satellites.

24-hour contact information for the Las Cruces, New Mexico Earth Station is as follows:

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Respectfully Submitted,
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Spectrum Manager, KSAT