

August 26, 2025

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 Maui, Hawaii (Call Sign E220160). This STA would permit communication with the non-geostationary satellite orbit (NGSO) satellites operated by Muon Space Inc. (Muon), under Call Sign S3173. These satellites include MuSat-2, MuSat-3, and MuSat-4, and operate within the Earth Exploration-Satellite Service (EESS), as licensed by the Commission.

This STA request is intended to provide interim authority during the period between grant of this request and the eventual submission and grant of a modification to KSAT's earth station license to include this additional point of communication.

This initial 60-day STA application is being filed at this time due to the ongoing review of pending FCC license, SES-LIC-20221019-01103 and the associated amendments. To minimize the need for recurring short-term STA extensions, KSAT plans to submit a 180-day STA request, covering a longer period, until it is able to file a long-term modification (MOD) to the E220160 license. This MOD will be submitted once the Commission acts on SES-LIC-20221019-01103 and SES-AMD-20230501-00844.

Frequency coordination and Society of Broadcast Engineers (SBE) have been completed. Due to the lapse in time and updated parameters a new coordination report has been initiated, and the completed analysis report will be attached once completed.

The Hawaii 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 Hawaii 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	MuSat-3; MuSat-4	2061.5	280KG1D	RHCP	47.7 dBW	29.24
	MuSat-2	2062.5				
	MuSat-2	2062.5	620KG1D			25.79
	MuSat-3; MuSat-4	2062.5	980KG1D	RHCP	47.7 dBW	23.80
Space-to-Earth	MuSat-2; MuSat-3; MuSat-4	8385.0	2M80G1D	RHCP	0.0 dBW	0.0
		8390.0				
Space-to-Earth	MuSat-2	8205.0	85M0G1D	RHCP	0.0 dBW	0.0
	MuSat-3; MuSat-4		250MG1D			

Antenna Specifications and Location	
Make and Model	Orbital Systems 3.7m; Mu1, Mu2, Mu3
Antenna Gain	35.4 dBi @ 2.0 GHz 44.3 dBi @ 8.0 GHz
Latitude	20 ° 49 ' 2.1 " N
Longitude	156 ° 27 ' 16.1 " W

Grant of this application will serve the public interest in accordance with Section 307(a) of the Commissions Act. The operation of the Hawaii earth station will enable frequent, predictable contact with the spacecraft to support potential collision avoidance, perform orbit maintenance, and conduct payload operations for the MuSat satellites. Additionally, it will facilitate safe deployment and commission of MuSat-3 and MuSat-4.

The strategic location of the KSAT Earth Station in Maui, Hawaii, 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 October 15, 2025.

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 Maui, Hawaii earth station is as follows:

Local – Hawaii Pacific Teleport, +1 808 674 9157

Hanna Pritchard, +1 231 360 7755, Hanna.Pritchard@ksat.no

Operations Office - +1 720 704 8456 or
+47 77 60 02 68
TNOC-operator@KSAT.no

Respectfully Submitted,
Hanna Pritchard
Spectrum Manager, KSAT Inc