

Exhibit A – Narrative Supplement
STA Request
Applicant: Kongsberg Satellite Services AS
Call Sign: E220160

Kongsberg Satellite Services AS (“KSAT”) provides this information pursuant to Section 25.120 of the Commission’s rules¹ to supplement its request for 60-day special temporary authority (“STA”) to operate a satellite earth station in Maui, Hawaii (call sign E220160) (“Station”).

The Station will operate in conjunction with the HawkEye 360, Inc. (“HE360”) satellite constellation (call sign S3042) (“HE360 Constellation”), which is licensed by the Commission.² The Station will support communications with the HE360 Constellation for TT&C and payload data.

The frequencies requested by KSAT for this STA (see below) have been authorized for operations by the HE360 Constellation and have been coordinated by HE360 with the relevant federal users.³

Grant of the STA is urgently needed to meet the communication needs of three recently launched HE360 satellites operating in a mid-inclination orbit.⁴ Without access to an authorized and coordinated mid-latitude station, the ability of these mid-inclination satellites to downlink data is materially limited. These satellites, as well as the HE360 Constellation, provide service to customers, including the United States government, and support critical national security interests. For these reasons, we respectfully request that the Commission grant this STA on an expedited basis.

Pending License Application

KSAT filed an application for a license to operate the Station and communicate with the HE360 Constellation on October 13, 2022.⁵ This application has not been accepted for filing.

¹ 47 C.F.R. § 25.120.

² See Stamp Grant, HawkEye 360, Inc., IBFS File Nos. SAT-MOD-20220906-00099, SAT-AMD-20221014-00136 (granted in part Mar. 3, 2023, grant in part reissued Mar. 13, 2023) (“HE360 License”). See also Stamp Grant, HE360, IBFS File No. SAT-LOA-20190102-00001 (granted in part Dec. 10, 2019); Stamp Grant, HE360, IBFS File No. SAT-AMD-20200728-00090 (granted Dec. 14, 2020, and reissued Dec. 17, 2020); Stamp Grant, HE360, IBFS File No. SAT-MOD-20210114-00010 (granted May 25, 2021).

³ See *supra* note 2.

⁴ See Letter from Dennis Burnett, EVP, General Counsel, HE360, to Merissa Velez, Chief, Policy Branch, International Bureau, Federal Communications Commission, IBFS File Nos. SAT-LOA-20190102-00001, SAT-MOD-20210114-00010 (February 3, 2023).

⁵ Application of Kongsberg Satellite Services AS for a License for a Maui, HI Earth Station, IBFS File No. SES-LIC-20221019-01103 (filed Oct. 13, 2022) (“Maui Station License Application”). KSAT also filed for requested special temporary authority for use of the Station pending the license grant but

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Contemporaneously with this STA application, KSAT is amending the license application to better reflect the technical parameters authorized in the HE360 Constellation license. The STA is needed during the pendency of the application.

Frequencies Requested

The requested frequencies for the STA for the Station are as follows:

Band (MHz)	Use	Center Frequency	Polarization	Max Bandwidth
X-band: 8025-8400	Primary payload downlink (space-earth)	Channel#1 – 8075 MHz	RHCP	80 MHz
		Channel#2 – 8165 MHz		
		Channel#3 – 8255 MHz		
X-band: 8025-8400	Primary TT&C downlink (space-earth)	Channel#1 – 8291 MHz	RHCP	4 MHz
		Channel#2 – 8297 MHz		
		Channel#3 – 8303 MHz		
S-band: 2025-2110	Primary payload uplink (earth-space)	Channel#1 – 2046.5 MHz	RHCP	2.66 MHz
		Channel#2 – 2049.3 MHz		
		Channel#3 – 2075.0 MHz		
S-band: 2025-2110	Primary TT&C uplink (earth-space)	Channel#1 – 2063.965 MHz	RHCP	180 kHz
		Channel#2 – 2064.965 MHz		
		Channel#3 – 2065.965 MHz		

Both the frequencies⁶ and the Station⁷ have been approved and *coordinated with the relevant federal users*.⁸

has since withdrawn that request (IBFS File No. SES-STA-20221019-01591 (filed Oct. 20, 2022; withdrawn May 1, 2023)).

⁶ See *HE360 License*, Reissued Attachment to Grant, Appendix A (“Table of Frequency Bands Coordinated with NASA/NOAA/USAF, Satellites 1-15 (Call Sign S3042)”).

⁷ See *HE360 License*, Reissued Attachment to Grant, Appendix B (listing “Maui, HI (USA), 20.8°N, –156.5°E” among “HawkEye 360 Earth Stations Coordinated With Federal Agencies”).

⁸ See *HE360 License*, Reissued Attachment to Grant, Conditions 7 and 10.

Station Specifications

The Station will use three identical 3.7 meter antennas (MU1, MU2 and MU3) for operation. The specifications for the Station are as follows:

Site Address: 226 Nopu Street, Maui, HI 96784
Site Coordinates: 20° 49' 2.1" N, 156° 27' 16.1" W (NAD-83)
Site Elevation (AMSL): 36.05 meters
Antenna Height Above Sea Level: 39.75 meters
MU1 Antenna Coordinates: 20.81732° N, -156.45474° E
MU2 Antenna Coordinates: 20.81703° N, -156.45445° E
MU3 Antenna Coordinates: 20.8174° N, -156.45444° E
Make/Model/Diameter of Antennas: Orbital 3.7 meter
Antenna Size: 3.7 m diameter (for all antennas)
Total Input Power at Antenna Flange: 18.2 watts
Antenna Gain Transmit and/or Receive: 35.4 dBi at 2.0 GHz; 44.3 dBi at 8.0 GHz
Total EIRP for all carriers (dBW): 48.0
Antenna Elevation Angle Western Limit / Eastern Limit: 5° / 5° (for all frequencies)
Maximum EIRP Density toward the Horizon (dBW/4kHz): 0 (for all frequencies)
Max. Antenna Height Above Ground Level (meters): MU1: 5.66; MU2: 5.66; MU3: 5.23
Max. Antenna Height AMSL (meters): MU1: 43.46; MU2: 43.46; MU3: 43.33

The Station is located at a site operated by Hawaii Pacific Teleport (24/7 Network Operations Centre, +1-808-674-9157). The Station will be remotely operated from KSAT's Tromsø Network Operations Center in Tromsø, Norway, and can be reached 24/7 at (+47) 77 60 02 50.

Public Interest

Grant of this STA request will serve the public interest in accordance with Section 25.120(b)(1) of the Commission's rules. The STA is urgently needed to meet the communication needs of three recently launched HE360 satellites operating in a mid-inclination orbit. Without access to an authorized and coordinated mid-latitude station, the ability of these mid-inclination satellites to downlink data is materially limited. These satellites, as well as the HE360 Constellation, provide service to customers, including the United States government, and support critical national security interests. For these reasons, we respectfully request that the Commission grant this STA on an expedited basis.