

Exhibit A

STA MODIFICATION REQUEST

I. DESCRIPTION OF MODIFICATION STA REQUEST

ISAT US, Inc. (“ISAT US”) hereby requests a modification to its recently granted special temporary authority (“STA”), SES-STA-20161006-00830, to operate an additional maritime earth station antenna SeaTel GX 60 (“Antenna”) in the HCP beam. Authorization is requested for one such antenna unit. This additional terminal in the beam will be used for troubleshooting and as a reference during the demonstration. This antenna is already licensed by the Commission to operate in the 29.5-30.0 GHz and 19.7-20.2 GHz bands. Operation of the Antenna during the period requested would be within the envelope of the technical parameters of the existing license with the exception of additional frequency bands discussed below.¹ The Antenna will operate with the Inmarsat Global Xpress I5 F2 satellite from the 55° W.L. orbital location and the Lino Lakes Satellite Access Station, which have both been authorized for U.S. market access.²

Consistent with the underlying STA ISAT US will be responsible for all technical aspects of the system during the demonstration. The Antenna user terminal operations in the additional spectrum requested will be closely monitored by the Inmarsat Network Operations Center (NOC) and the engineering team associated with the demonstration. It is expected that the Antenna will be used starting 27 October through 4 November.

II. ISAT US SEEKS AUTHORITY TO OPERATE THE SEATEL GX 60 TERMINAL ON ADDITIONAL FREQUENCY BANDS (29.375-29.5 GHz/19.575-19.7 GHz)

ISAT US is already licensed to operate the Antenna in the 29.5-30 GHz (uplink) and the 19.7-20.2 GHz (downlink) bands. Therefore, ISAT US seeks authority to operate the Antenna in the following additional frequency bands: 29.375-29.5 GHz (uplink) and 19.575-19.7 GHz (downlink). ISAT US requests this authority on a non-interference and non-protected basis. ISAT US requests a waiver of the U.S. Table of Frequency Allocations,³ as necessary, to allow the proposed FSS STA operations in the 19.575-19.7 GHz frequencies. Grant of a waiver would serve the public interest because it would allow demonstration of important services through the I5F2 satellite to potential customers and facilitate further deployment of satellite broadband to end users. As discussed below, grant of the requested waivers would not undermine the policy objective of the rule, as the primary operators in these bands under the U.S. Table would be protected from harmful interference.

¹ See, ISAT US GX aero user terminal earth station Call Sign E140029.

² See, Inmarsat Mobile Networks, Inc., Granted March 30, 2015, (Call Sign E120072; IBFS File No. SES-LIC-20120426-00397) (“*Lino Lakes Order*”).

³ 47 C.F.R. § 2.106.

For clarity ISAT US provides the following technical parameters for the additional frequencies requested:

EARTH-to-SPACE:

Transmit Frequencies: 29.375-29.5 GHz

Transmit Polarization: RHCP

Maximum EIRP: 50.4 dBW

RF Modulation: 8 APSK (max)

Minimum Elevation for Transmission: 5 degrees

Emission Designator: Same as those licensed in Call Sign E140029 for SEAGX60 in the 29.5-30.0 GHz band.

Antenna Gain SEAGX60: 43.3 dBi

SPACE-to-EARTH:

Receive Frequencies: 19.575-19.7 GHz

Receive Polarization: LHCP

Maximum Spacecraft EIRP: 54dBW

RF Modulation: 16 APSK

Azimuth Range: 360 degrees

Emission Designator: Same as that licensed in Call Sign E140029 for SEAGX60 in the 19.7-20.2 GHz band.

Antenna Gain SEAGX60: 40.4 dBi

Description of Operations

The modification of the STA will allow an additional terminal to operate in the HCP beam for troubleshooting and as a reference during the demonstration. The terminal will be operated from the Inmarsat Palm Bay facility in Florida from October 27 to November 4. The specific location of the Inmarsat facility is: 28.04°N, 80.59°W. No other changes are proposed under the granted STA.

Duration of Communications: approximately 10 days

24 Hour Point of Contact during the STA: Inmarsat Network Control +44 207 728 1616

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Grant of the requested STA will serve the public interest, convenience and necessity because it will enable ISAT US to conduct demonstrations of the Global Xpress capabilities using the Inmarsat-5 F2 spacecraft, within technical parameters consistent with the parameters described herein using the identified Antenna, without creating any risk of harmful interference. ISAT US respectfully requests that the Commission grant the modification to the STA beginning 27 October 2016 for a period of 10 days.

⁴ *Lino Lakes Order ¶ 27*

