Attachment 1

ISAT US, Inc.

Request for Special Temporary Authorization for over-the-air testing of various configurations of the Intellian GX100PM maritime terminal

(File No. SES-MOD-20190321-00390; Call Sign E140029)

ISAT US, Inc. (hereinafter "Inmarsat") respectfully requests a grant of special temporary authorization ("STA") for thirty days, commencing July 6, 2020, to operate and test various configurations of one unit of the Intellian GX100PM user earth station terminal in communication with the Inmarsat 5-F2 space station at the 55^{o} WL orbital location. The Intellian GX100PM terminal model is designed to be used as a maritime earth station in motion ("ESIM"), as are the various earth station presently authorized under Inmarsat's blanket maritime ESIM license, call sign E140029, initially applied for in File No. SES-LIC-20140224-00098 and subsequently modified in IBFS File Nos. SES-MOD-20151106-00818, SES-AFS-20160211-00130, SES-AFS-20160301-00178, SES-MOD-20161130-00917, SES-MOD-20170817-00928, and SES-MOD-20190321-00390. The applications under these file numbers, as amended, are incorporated by reference herein.

Inmarsat seeks authority for the terminal under test in this STA to communicate with the Inmarsat 5-F2 space station at 55 degrees WL, which is licensed by the United Kingdom and has been previously granted US market access)

The GX100PM terminal has the same antenna dimensions and specifications as the Intellian GX100 and JRC JUE-100 terminal models, with added features for high capacity service. The terminal is designed to operate in the Ka band, with transmit capability in the 29.25-30.0 GHz band (right-hand circular polarization) and receive capability in the 19.45-20.2 GHz band (left hand circular polarization). Two different block upconverters, one with 5W output and another with 10W output, will be utilized with the antenna during the test. The input transmitter power at the flange will be a maximum of 10 W, resulting in a maximum transmitted EIRP of 53.9 dBW. STA is sought for these parameters in the transmit and receive frequency ranges specified above.

The testing will be conducted on board a vessel docked at Lambert's Point Docks, 100 Orapax Drive, Norfolk VA 23507. Authorization is sought for a radius of one mile from coordinates specified in the application in order to allow for the vessel to be docked at several piers. This will be a static test which will demonstrate the function and performance of the terminal over the satellite and Inmarsat's Global Express ("GX") network. The terminal will access the GX network and conduct traffic tests and network functions. The vessel will be docked and stationary throughout the testing.

Inmarsat's 24-hour point of contact in the United States to address unanticipated interference issues is Ananda Mishra, +1 808 638-5820. Further, Inmarsat's London Network Operations Center may be reached at any time at +44 20 7728 1616.

Grant of the STA for the testing is in the public interest because the testing will facilitate and further develop improvements in Inmarsat's maritime ESIM services, including services used by various U.S. government agencies. It is therefore respectfully requested that STA as described above be granted for a period of 30 days, commencing July 6, 2020.

Any questions with respect to this matter may be directed to Brennan Price at +1 703 223-3327.