

## Attachment 1

ISAT US, Inc.

Request for Special Temporary Authorization for over-the-air testing of the Ball 2587833-500 terminal

File Number SES-MFS-20210528-0064 (Call Sign E140114)

ISAT US, Inc. (hereinafter "Inmarsat") respectfully requests a grant of special temporary authorization ("STA") for thirty days, commencing October 4, 2021, to operate and test an aeronautical earth station in motion terminal over Inmarsat's Global Express ("GX") network. The terminal model, BA 2587833-500, is manufactured by Ball Aerospace Systems. Inmarsat seeks authority for the terminal under test to communicate with the Inmarsat 5-F2 space station (licensed by the United Kingdom) at 55 degrees WL.

The terminal utilizes a flat-panel antenna with a 16.2" by 16.2" transmit array and a 27" by 18" receive array, along with integrated modems, electronics, and software. The terminal is designed to operate in the Ka band, with transmit (Earth-to-space) capability in the 29.5-30.0 GHz band and receive capability in the 19.7-20.2 GHz (space-to-Earth) band. STA is sought for both left hand circular and right-hand circular polarizations in the transmit and receive frequency ranges specified above.

The testing will be held at the Ball Aerospace facility at 9467 W 108<sup>th</sup> Cir., Westminster, CO 80021, within one-mile of the coordinates specified in the application. This will be a static test which will demonstrate the function and performance of the terminal over the satellite and Inmarsat's GX network. The terminal will access the GX network for the purpose of conducting proof of concept testing with respect to the terminal.

Inmarsat designates Joseph Friel of Ball Aerospace as its point of contact to address unanticipated instances of interference while the described testing is in progress. Mr. Friel may be reached at +1 720-416-4517, and Joseph.Friel@ballaerospace.com. Alternately, Inmarsat's 24-hour point of contact in the United States for the referenced aeronautical ESIM license, as required by Section 25.228(e)(2), is Ananda Mishra, available at +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 aeronautical earth station in motion 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, effective October 4, 2021.

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