

## Attachment 1

ISAT US, Inc.

Request for Special Temporary Authorization for over-the-air testing of the L3Harris DarkWing terminal

File Number SES-MOD-20200602-00589 (Call Sign E150097)

ISAT US, Inc. (hereinafter "Inmarsat") respectfully requests a grant of special temporary authorization ("STA") for thirty days, commencing November 4, 2020, to operate and test a fixed, land-based earth station terminal over Inmarsat's GX network. The terminal model, L3Harris DarkWing, is manufactured by L3Harris Technologies. 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 L3Harris DarkWing terminal utilizes small, portable, flat panel antenna 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 conducted at the L3Harris facility at 7640 Omnitech Place, Victor NY 14564, 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 Global Express ("GX") network. The terminal will access the GX network and conduct traffic tests and network functions.

L3Harris has provided Gary Ridosh to serve as a point of contact to address unanticipated instances of interference while the described testing is in progress. Mr. Ridosh may be reached at +1 585 626-8583 and gary.ridosh@l3harris.com. Alternately, Inmarsat's 24-hour point of contact in the United States for interference issues 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. agencies. It is therefore respectfully requested that STA as described above be granted for a period of 30 days, effective November 4, 2020.

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