

Applicant: ISAT US Inc.
Call Sign: E140114
File No.: SES-STA-20210928-01658
Special Temporary Authority ("STA")

ISAT US Inc. is granted STA for 30 days, beginning October 20, 2021, to operate and test a single aeronautical earth station in motion terminal ("ESIM") with Inmarsat's 5-F2 space station (licensed by the United Kingdom) at 55 degrees WL in Inmarsat's Global Express ("GX") GSO FSS network. The terminal model, BA 2587833-500 is manufactured by Ball Aerospace Systems. 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. Testing is authorized at the Ball Aerospace facility at 9467 W 108th Cir., Westminster, CO 80021, 39°53'56.2"N / 105°6'21.7"W and within one-mile of these coordinates. Operation of the single aeronautical earth station in motion terminal is authorized on frequency bands: 29.5-30.0 GHz band (Earth-to-space) and 19.7-20.2 GHz (space-to-Earth), under the following conditions:

1. Operations will not exceed the operational power limits and parameters requested and coordinated.
2. Operations are limited to a static test which will demonstrate the function and performance of the single terminal over the satellite and Inmarsat's GX network for the purpose of conducting proof of concept testing with respect to the single terminal.
3. All operations under this grant of STA shall be on an unprotected, non-harmful interference basis. ISAT US Inc. shall not cause harmful interference to and shall not claim protection from interference caused to it by, any other lawfully operating radio communication system.
4. In the event of any harmful interference ISAT US Inc. shall cease operations immediately upon notification of such interference, and shall immediately inform the Commission, in writing, of such an event.
5. ISAT US Inc. 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. In addition, Inmarsat's London Network Operations Center may be reached at any time at +44 20 7728 1616.
6. The licensee shall take all necessary measures to ensure that the antenna does not create potential exposure of humans to radiofrequency radiation in excess of the FCC exposure limits defined in 47 CFR 1.1307(b) and 1.1310 wherever such exposures might occur. Measures must be taken to ensure compliance with limits for both occupational/controlled exposure and for general population/uncontrolled exposure, as defined in these rule sections. The FCC's OET Bulletin 65 (available on-line at www.fcc.gov/oet/rfsafety) provides information on predicting

exposure levels and on methods for ensuring compliance, including the use of warning and alert signs and protective equipment for workers.

7. Any action taken, or expense incurred, as a result of operations pursuant to this STA is solely at ISAT US Inc.'s risk.

8. This STA is subject to the conditions established in ISAT US Inc.'s SES-MFS-20210528-0064, E140114.

9. This grant is issued pursuant to Section 0.261 of the Commission's rules on delegated authority, 47 CFR § 0.261, and is effective upon release. This special temporary authority was authorized pursuant to Section 1.62 of the Commission's rules, 47 CFR § 1.62.