

Form 442 Question 6: Description of Research Project (FCC STA Experimental License Request)

Applicant: **Globalstar, Inc.**
Form 442 File Number: **0777-EX-CN-2020**

The objective of the Globalstar Form 442 Experimental License request is to support communications for the NearSpace Launch, Inc. (NSL) TAGSAT-1 CubeSat mission. The objectives of the TAGSAT-1 project are presented in the Experimental License Application submitted by NSL for the TAGSAT-1 CubeSat mission, FCC File 0657-EX-ST-2020.

Background:

This request is related to FCC File 0657-EX-ST-2020, filed by NSL.

In its request, NSL sought authority to operate one NSL EyeStar-S3 L-band transmitter (uses FCC-approved licensed Globalstar STX-3 transmitter module, FCCID L2V-STX3). This transceiver is integrated into the TAGSAT-1 CubeSat which will be launched into low-earth orbit. Data collected by the TAGSAT-1 CubeSat will be transmitted by the Globalstar module and relayed to the mission operations center by means of the Globalstar system constellation and the associated Globalstar ground infrastructure.

In this Experimental License request, Globalstar seeks authority, in connection with the aforementioned CubeSat mission, to:

1. receive transmissions from the licensed transmitter module and to relay the data to the mission operations center

The only change from Globalstar's currently licensed operations is that the Globalstar constellation will be receiving transmissions from an FCC-approved terminal located on a space station rather than communicating with this terminal from its usual earth-based location. Globalstar's License does not cover space-to-space operation, thus requiring this Experimental License request.

As described in the TAGSAT-1 Technical Description (FCC File 0657-EX-CN-2020), the TAGSAT-1 is expected to be in operation for 24 months. NSL will notify the FCC of the dates of actual operation, once those dates have been established.

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