

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

Applicant: Globalstar, Inc.
Form 442 File Number: 0187-EX-CN-2022

The objective of the Globalstar Form 442 Experimental License request is to support communications for the NearSpace Launch Inc. TROOP-4 mission. The objectives of the TROOP-4 project are presented in the Spectrum Authorization request for the TROOP-4 CubeSat mission.

- FCC File 0129-EX-CN-2022

Background:

This request is related to the spectrum authorization filing for TROOP-4 mission.

In its request, NearSpace Launch Inc. sought authority to operate a Globalstar STX3 (FCCID L2V-STX3) ~~receiver~~ transmitter in space orbit. This ~~receiver~~ transmitter is integrated into the TROOP-4 experiment which will be launched into low-earth orbit attached to an Astra second stage launch vehicle. Data collected by the TROOP-4 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:

- receive transmissions from, ~~and transmit to,~~ the licensed transceiver module and relay the data to the TROOP-4 mission operations center.

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

As described in the TROOP-4 filing, 0129-EX-CN-2022, the TROOP-4 CubeSat is expected to be in operation for 2 years. NearSpace Launch Inc. will notify the FCC of the dates of actual operation once those dates have been established.

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