

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

Applicant: Globalstar, Inc.
Form 442 File Number: 0544-EX-CN-2019

In support of NTIA File Number: SPS-23532/1

The objective of the Globalstar Form 442 Experimental License request is to support communications for the AFRL Very Low Frequency Particle Mapper (VPM) CubeSat mission. The objectives of the VPM project are presented in NTIA file for the VPM CubeSat mission, NTIA File SPS-23532/1.

Background:

This request is related to NTIA File SPS-23532/1.

In its NTIA filing, AFRL sought authority to operate an EyeStar-S3 transceiver module (FCCID: FCCID L2V-STX3). This transceiver is integrated into the VPM CubeSat which will be launched into low-earth orbit. Data collected by the VPM 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 ground infrastructure.

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

- receive transmissions from the licensed transmitter modules 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.

It is anticipated that the VPM CubeSat mission will be operational for approximately 12 months. AFRL will notify the FCC of the dates of actual operation, once those dates have been established.

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