

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

Applicant: Globalstar, Inc.
Form 442 File Number: 0575-EX-CN-2019

In support of NTIA File Number: SPS-23718/1

The objective of the Globalstar Form 442 Experimental License request is to support communications for the ASTRA, LLC (ASTRA) ORCA CubeSat mission. The objectives of the ORCA project are presented in the NTIA file for the ORCA CubeSat mission, NTIA File SPS-23718/1.

Background:

This request is related to NTIA File SPS-23718/1.

In its NTIA filing, ASTRA sought authority to operate a Globalstar STX-3 transceiver module (FCCID: FCCID L2V-STX3). This transceiver is integrated into the ORCA CubeSat which will be launched into low-earth orbit. Data collected by the ORCA 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 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 ORCA CubeSat mission will be operational for approximately 36 months. ASTRA will notify the FCC of the dates of actual operation, once those dates have been established.

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