

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

Applicant: Globalstar, Inc.
Form 442 File Number: 0229-EX-CN-2022

The objective of the Globalstar Form 442 Experimental License request is to support communications for the Air Force Research Laboratory Space Vehicles Directorate RECURVE CubeSat mission. The objectives of the RECURVE project are presented in the Spectrum Authorization request for the RECURVE CubeSat mission, NTIA filing SPS-25273/1.

Background:

This request is related to the spectrum authorization filing for RECURVE mission.

In its request, Air Force Research Laboratory Space Vehicles Directorate sought authority to operate Globalstar STX3 (FCCID L2V-STX3) transceiver in space orbit. This transceiver is integrated into the RECURVE CubeSat which will be launched into low-earth orbit. Data collected by the RECURVE 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:

- receive transmissions from the licensed transceiver module and relay the data to the RECURVE mission operations center

The only change from Globalstar's currently licensed operations is that the Globalstar constellation will be communicating with FCC-approved terminals located on a space station rather than communicating with these terminals 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 RECURVE filing, SPS-25273/1, the RECURVE CubeSat is expected to be in operation for 12 months. Air Force Research Laboratory Space Vehicles Directorate will notify the FCC of the dates of actual operation once those dates have been established.

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