

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

Applicant: Globalstar, Inc.
Form 442 File Number: 0225-EX-CN-2022

The objective of the Globalstar Form 442 Experimental License request is to support communications for the Orbital Sidekick GHOST mission. The objectives of the GHOST project are presented in the Spectrum Authorization request for the GHOST CubeSat mission,

FCC File SAT-LOA-20211217-00198

Background:

This request is related to the spectrum authorization filing for GHOST mission. This is a flock of 6 identical satellites. A typical satellite is described in this exhibit.

In its request, Orbital Sidekick (OSK) sought authority to operate Globalstar STX3 (FCCID L2V-STX3) transmitter in space orbit. The transmitter is integrated into the GHOST satellite which will be launched into low-earth orbit. Data collected by GHOST will be transmitted by the Globalstar modules 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 mission, to:

- receive transmissions from the licensed transmitter module(s) and relay the data to/from the GHOST 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 GHOST filing, SAT-LOA-20211217-00198, GHOST is expected to be in operation for 24-36 months. Orbital Sidekick will notify the FCC of the dates of actual operation once those dates have been established.

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