

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

Applicant: Globalstar, Inc.  
Form 442 File Number: 0178-EX-CN-2021

The objective of the Globalstar Form 442 Experimental License request is to support communications for the Wolverine Cubesat Development Team, Inc. (WOLVERINE) CAPSAT-1 CubeSat mission. The objectives of the CAPSAT-1 project are presented in the Experimental License Application submitted by WOLVERINE for the CAPSAT-1 CubeSat mission, FCC File 0079-EX-CN-2021

**Background:**

This request is related to FCC File 0079-EX-CN-2021, filed by WOLVERINE.

In its request, WOLVERINE sought authority to operate one NSL EyeStar-S3 L-band transmitter (uses FCC-approved licensed Globalstar STX-3 transmitter module, FCCID L2V-STX3). This transceiver is integrated into the CAPSAT-1 CubeSat which will be launched into low-earth orbit. Data collected by the CAPSAT-1 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:

1. receive transmissions from the licensed transmitter module 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.

As described in the CAPSAT-1 Technical Description (FCC File 0079-EX-CN-2021), the CAPSAT-1 is expected to be in operation for 24 months. WOLVERINE will notify the FCC of the dates of actual operation, once those dates have been established.

**WOLVERINE Contact for Information regarding Mission and CubeSat Application:**

Kevin L. Simmons, Science Educator, Wolverine Cubesat Development Team, Inc.  
Phone: (904) 626-3512  
Address: 2300 Giralda Circle East #102, Palm Beach Gardens, FL 33410  
Email: [ksimmons@bluecubesat.com](mailto:ksimmons@bluecubesat.com)

**Globalstar Contact Person:**

David Weinreich Manager, Spectrum and Regulatory Engineering  
Phone: 301-651-4552  
E-Mail: [david.weinreich@globalstar.com](mailto:david.weinreich@globalstar.com)