

Purpose of Experimental License Request (Form 442 Experimental License Request)

Applicant: **Globalstar, Inc.**
Applicant Form 442 File Number: **0399-EX-CN-2018**

Supporting NTIA Mission filing: **SPS-20479/5**

The objective of the Globalstar Form 442 Experimental License request is to support communications for the NTIA SPS-20479/5 CubeSat mission ("Mission"). The NTIA SPS-20479/5 CubeSat mission office ("Mission Office") has told Globalstar that they have filed with the NTIA for authorization to use the Globalstar modem in earth orbit and that the NTIA has coordinated this Mission with the FCC. The objectives of the NTIA project are presented in NTIA file SPS-20479/5.

Background:

In its request to the NTIA, the Mission Office sought authority to operate a Globalstar GSP-1720 transceiver module (FCCID J9CGSSDVM) and a Globalstar STX2 simplex transmitter (FCCID L2V-STX2-1) both of which have been integrated into the Mission CubeSat satellite. The CubeSat will be launched into low-earth orbit. Data collected by the Mission will be transmitted by the GSP-1720 and STX2 modules 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 to:

1. Receive transmissions from the licensed GSP-1720 and STX2 modules and to relay the data to the Mission Office Operations Center
2. Transmit information to the Mission GSP-1720

Globalstar is already licensed for use of the communication frequencies. The only change from Globalstar's currently licensed operations is that the Globalstar constellation will be sending/receiving transmissions to/from the FCC-approved modules on a space station rather than communicating with these type of terminals from earth-based locations. Globalstar's License does not cover space-to-space operation, thus requiring this Experimental License request.

The Mission Office expects to operate the Globalstar GSP-1720 and STX2 modules for approximately 24 months. The Mission Office has assured Globalstar that either they or the NTIA will notify the FCC of the dates of actual operation, once those dates have been established.

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