

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

Applicant: **Globalstar, Inc.**  
Form 442 File Number: **0578-EX-CN-2018**

The objective of the Globalstar Form 442 Experimental License request is to support communications for the University of Southern Indiana UNITE CubeSat mission. The objectives of the UNITE project are presented in the Experimental License Application submitted by University of Southern Indiana for the UNITE CubeSat mission, FCC File 0401-EX-CN-2018

**Background:**

This request is related to a Form 442 request (FCC File No. 0401-EX-CN-2018) filed by University of Southern Indiana.

In its request, University of Southern Indiana sought authority to operate a Globalstar GSP-1720 transceiver module (FCCID J9CGSSDVM) and a Globalstar STX3 module (FCCID L2V-STX3). These transceivers are integrated into the UNITE CubeSat which will be launched into low-earth orbit. Data collected by the UNITE CubeSat will be transmitted by the Globalstar modules and relayed to the University of Southern Indiana 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 Form 442 application, to:

1. receive transmissions from the licensed transmitter modules and to relay the data to the UNITE mission operations center
2. transmit information to the UNITE CubeSat

The only change from Globalstar's currently licensed operations is that the Globalstar constellation will be sending/receiving transmissions to/from FCC-approved terminals located on a space station rather than communicating with these terminals from their 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 UNITE CubeSat mission will be in orbit for approximately 24 months. University of Southern Indiana will notify the FCC of the dates of actual operation, once those dates have been established.

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