

Item 6: Purpose of Experimental License (Form 442 Experimental License Request)

Applicant: **Globalstar, Inc.**
Form 442 File Number: **1025-EX-CN-2019**
(Original GRANT: **0036-EX-CN-2018, expired**)

in support of FCC File Number: **0048-EX-CM-2019** (Northwest Nazarene)
Need Date per Johnson Space Center COB 17 Dec 2019

The objective of the Globalstar Form 442 Experimental License request is to support communications for the Northwest Nazarene University MakerSat-1 CubeSat mission. The objectives of the MakerSat-1 project are presented in the Northwest Nazarene University MakerSat-1 ELS Application (File 0743-EX-CN-2017) and the Form 405 ELS license extension for the MakerSat-1 CubeSat mission, FCC File **0048-EX-CM-2019**.

This is a new license application because the original Globalstar GRANT, File 0036-EX-CN-2018, expired. Our understanding is that Form 405 must be submitted prior to license expiration.

Background:

This request is related to a Form 405 request (FCC File No. **0048-EX-CM-2019**) filed by Northwest Nazarene University.

In its request, Northwest Nazarene University sought authority to operate a EyeStar-S2 transceiver module (FCCID L2V-STX2-1) which is integrated into the MakerSat-1 CubeSat and which will be launched into low-earth orbit. Data collected by the MakerSat-1 CubeSat will be transmitted by the EyeStar-S2 simplex transmitter module and relayed to the Northwest Nazarene University 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 module
2. relay the data to the MakerSat-1 mission operations center

The only change from Globalstar's currently licensed operations is that the Globalstar constellation will be receiving transmissions from the FCC-approved terminal which is located on a space station rather than installed at ground level. Globalstar's License does not cover space-to-space operation, thus requiring this Experimental License request.

Mission Office Contact:

The CubeSat Mission Office will notify the FCC of the dates of actual operation, once those dates have been established. Contact information for the CubeSat Mission Office is provided in FCC File **0048-EX-CM-2019**.

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