

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

Applicant:

Globalstar, Inc.

Form 442 File Number:

0036-EX-CN-2018

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 Experimental License Application submitted by Northwest Nazarene University for the MakerSat-1 CubeSat mission, FCC File 0743-EX-CN-2017

Background:

This request is related to a Form 442 request (FCC File No. 0743-EX-CN-2017) 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.

It is anticipated that the MakerSat-1 CubeSat mission will be in orbit for approximately 9 months. Northwest Nazarene University will notify the FCC of the dates of actual operation, once those dates have been established.

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