

Description of Research Project (FCC STA Experimental License Request)

Applicant: Globalstar, Inc.
FCC ELS File Number: 0825-EX-ST-2021

The objective of the Globalstar Experimental License request is to support communications for the Near Space Launch, Inc. (NSL) WVSAT CubeSat mission. The objectives of the WVSAT project are presented in the Experimental License Application submitted by NSL for the WVSAT CubeSat mission, FCC File 0553-EX-CN-2021. NOTE that WVSAT originally had FCC File Number 0703-EX-ST-2021 but later replaced their application with the current FCC File 0553-EX-CN-2021.

Background:

This request is related to FCC File 0553-EX-CN-2021, filed by NSL.

In its request, NSL sought authority to operate eight NSL EyeStar-S3 (FCC-approved licensed Globalstar STX-3 transmitter module, FCCID L2V-STX3) transceivers. These transceivers are integrated into the WVSAT CubeSats which will be launched into low-earth orbit. Data collected by WVSAT will be transmitted by the Globalstar modules 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:

- receive transmissions from the licensed transceiver modules
- relay the data to the mission operations center

The only change from Globalstar's currently licensed operations is that the Globalstar constellation will be communicating with FCC-approved terminals located on a space station rather than communicating with these terminals from the usual earth-based location. Globalstar's License does not cover space-to-space operation, thus requiring this Experimental License request.

As described in the WVSAT Technical Description (FCC File 0553-EX-CN-2021), the WVSAT CubeSats are expected to be in operation for 6 months. NSL will notify the FCC of the dates of actual operation, once those dates have been established.

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