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

Applicant:	Globalstar, Inc.
Form 442 File Number:	1955-EX-ST-2021

The objective of the Globalstar Form STA Experimental License request is to support communications for the NearSpace Launch Inc. S4 CROSSOVER mission. The objectives of the S4 CROSSOVER project are presented in the Spectrum Authorization request for the S4 CROSSOVER CubeSat mission, FCC File 1952-EX-ST-2021

Globalstar will only be receiving transmissions from the S4 Crossover CubeSat and will not be transmitting anything to the S4 Crossover CubeSat.

Background:

This request is related to the spectrum authorization filing for S4 CROSSOVER mission.

In its request, NearSpace Launch Inc. sought authority to operate a Globalstar STX3 (FCCID L2V-STX3) transmitter in space orbit. This transmitter is integrated into the S4 CROSSOVER experiment which will be launched into low-earth orbit attached to an Astra second stage launch vehicle. Data collected by the S4 CROSSOVER will be transmitted by the Globalstar module 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 module and relay the data to the S4 CROSSOVER mission operations center.

The only change from Globalstar's currently licensed operations is that the Globalstar constellation will be communicating with an FCC-approved terminal located on a space station rather than communicating with this terminal 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 S4 CROSSOVER filing, FCC File# 1952-EX-ST-2021, the S4 CROSSOVER CubeSat is expected to be in operation for a few weeks. NearSpace Launch Inc. will notify the FCC of the dates of actual operation once those dates have been established.

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