

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

Applicant: **Globalstar, Inc.**
Form 442 File Number: **0861-EX-CN-2020**

The objective of the Globalstar Request for Special Temporary Authority is to support communications for the California State Polytechnic University, Pomona, BroncoSat-1 CubeSat mission. The objectives of the BroncoSat-1 project are presented in the Experimental License Application submitted by BroncoSat-1 for the BroncoSat-1 CubeSat mission, FCC File 0746-EX-CN-2020.

Background:

This request is related to FCC File 0746-EX-CN-2020, filed by California State Polytechnic University (Pomona), for the BroncoSat-1 CubeSat mission.

In its request, California State Polytechnic University (Pomona) sought authority to operate a Globalstar STX-3 (FCCID L2V-STX3) and a Globalstar GSP-1720 transceiver module (FCCID: J9CGSSDVM). These transceivers are integrated into the BroncoSat-1 CubeSat which will be launched into low-earth orbit. Data collected by the BroncoSat-1 CubeSat 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:

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

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

It is anticipated that the BroncoSat-1 CubeSat mission will be in orbit for approximately 24 months. The California State Polytechnic University (Pomona) BroncoSat-1 Mission Office will notify the FCC of the dates of actual operation, once those dates have been established.

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