

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

Applicant:

Globalstar, Inc.

Form 442 File Number:

0017-EX-CN-2018

The objective of the Globalstar Form 442 Experimental License request is to support communications for the Blue Canyon Technology TEMPEST-D CubeSat mission. The objectives of the TEMPEST-D project are presented in the Experimental License Application submitted by Blue Canyon Technology for the TEMPEST-D CubeSat mission, FCC File 0573-EX-CN-2017

Background:

This request is related to a Form 442 request (FCC File No. 0573-EX-CN-2017) filed by Blue Canyon Technology.

In its request, Blue Canyon Technology sought authority to operate a Globalstar GSP-1720 transceiver module (FCCID J9CGSSDVM) which is integrated into the TEMPEST-D CubeSat and which will be launched into low-earth orbit. Data collected by the TEMPEST-D CubeSat will be transmitted by the GSP-1720 module and relayed to the Blue Canyon Technology 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 and to relay the data to the Blue Canyon Technology mission operations center
2. transmit information to the TEMPEST-D CubeSat

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

It is anticipated that the TEMPEST-D CubeSat mission will be in orbit for approximately 24 months. Blue Canyon Technology will notify the FCC of the dates of actual operation, once those dates have been established.

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