

Purpose of Experimental License Request (Form 442 Experimental License Request)

Applicant: **Globalstar, Inc.**
Form 442 File Number: **0188-EX-CN-2018**

The objective of the Globalstar Form 442 Experimental License request is to support communications for the HaloSat CubeSat mission. HaloSat is a NASA CubeSat mission. The HaloSat mission office has told Globalstar that they have filed with the NTIA for authorization to use the Globalstar modem in earth orbit. The objectives of the HaloSat project are presented in their filing with NTIA.

Background:

In its request to the NTIA, NASA sought authority to operate a Globalstar GSP-1720 transceiver module (FCCID J9CGSSDVM) which has been integrated into their HaloSat CubeSat satellite. The HaloSat will be released into low-earth orbit. Data collected by HaloSat will be transmitted by the GSP-1720 module and relayed to the HaloSat mission operations center by means of the Globalstar system constellation and the associated ground infrastructure.

In this Experimental License request, Globalstar seeks authority to:

1. receive transmissions from the licensed GSP-1720 module and to relay the data to the HaloSat mission operations center
2. transmit information to the HaloSat GSP-1720

The only change from Globalstar's currently licensed operations is that the Globalstar constellation will be sending/receiving transmissions to/from the FCC-approved GSP-1720 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.

The Halosat mission office expects to operate the Globalstar GSP-1720 for approximately 12 months. Globalstar has asked the HaloSat mission office to notify the FCC of the dates of actual operation, once those dates have been established.

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