Description of Research Project (FCC Experimental License Request)

Applicant: Globalstar, Inc.
FCC_File Number: *0666-EX-CN-2021*

in support of: *NASA Ames Research Center, PTD-2, File SPS-24146/1*

The objective of this Globalstar Request for NTIA Spectrum Authorization is to support communications for the *NASA Ames Research Center, PTD-2* mission. The objectives of the *PTD-2* project are presented in the *NTIA Spectrum Authorization* Application submitted by *NASA Ames Research Center* for the *PTD-2* mission, *NTIA File SPS-24146/1*.

Background:

In its request, *NASA Ames Research Center* sought authority to operate *Qty 1* of *Globalstar GSP-1720 (FCCID J9CGSSDVM)*, currently integrated into the *PTD-2* system. Information transmitted by the *PTD-2* system will be relayed to the *NASA* 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 mission, to:

1. *Receive and transmit* information to and from the licensed transmitter module and to relay the data to and from the Mission Operations Center

The only change from Globalstar's currently licensed operations is that the Globalstar constellation will be sending/receiving transmissions to/from the FCC-approved terminal located on a space station launch vehicle 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.

The *PTD-2* mission is not expected to extend beyond 6 months. However, since there is uncertainty regarding the mission launch date, a duration of 18 months is being requested in this experimental request. The *NASA Ames Research Center PTD-2* Mission Office *or the NTIA* will notify the FCC of the dates of actual operation, once those dates have been established.

Contact Information for the Stop-Buzzer

NTIA

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