

Discussion of STA Application 1560-EX-ST-2019 Rev 1 10/4/2019

Modification of Meshbed STA 0306-EX-ST-2019

STA 0306-EX-ST-2019 was granted April 26, 2019. It is valid from June 1, 2019 to December 2, 2019.

The purpose of this mission was, and remains, to characterize the performance of an experimental phased array communication antenna called FUSE, under a variety of conditions.

For the following reasons, we are applying for a modification to this STA:

1. The launch has been delayed and is now expected to be No Earlier Than October 15, 2019.
2. In addition to the 5 GHz test frequencies listed in the original STA application, we wish to add uplink and downlink test beams in the S Band range. (Added 10/4/19) The uplink for this S band range of operation will be from the same MITRE Corporation ground station in Bedford, MA. This continued and expanded uplink operation of this ground station will be licensed by two Experimental licenses: 0770-EX-CN-2019, an extending the original 5 GHz operation, and 0803-EX-CN-2019, covering the S-band earth station operation (2395-2450 MHz)
3. We wish to notify FCC of the intent to do passive listening to already licensed and scheduled downlinks from a number of satellites in orbit. Permission has been obtained and documented in exhibits to this application, from each of the operators of these satellites. The Meshbed satellite will listen to already scheduled downlinks; no transmissions will be generated by these satellites intended specifically for Meshbed.