## NSL Ground Station Description of Research Project Exhibit for License Modification Application 0105-EX-CM-2019

The original license 0717-EX-CN-2018 is requested to be modified to include RFTSat. RFTSat license application is 1007-EX-CN-2019.

## **Purpose:**

The NSL Ground Station (NSLGS) will provide basic telecommands to educational satellites, supporting positive control of the transmitters on those satellites.

## **Location and Operation:**

The ground station is located near Upland, Indiana, about 2 miles south of Taylor University, in a rural area with a mix of forests and fields. It is a 1.5 meter diameter dish antenna, beam width 5.3 degrees, 30 dBi gain, and will operate on 2467 MHz. The elevation will be constrained to 60 degrees or above at all times, to hold Doppler shift within acceptable limits.

## **Future:**

In the longer term, it is expected that development of Globalstar supported receivers for the educational satellites will support this function, and supplant the use of the NSL ground station. .