

Form 442 Question 4: Government Project Description  
MIT Lincoln Laboratory  
Experimental License Application  
File Number: 0001-EX-CN-2021  
Confirmation Number: EL997695

The proposed experiment fulfills requirements for work supported by the Department of the Air Force under Air Force Contract No. FA8702-15-D-0001.

MIT Lincoln Laboratory is developing sensing and navigation capabilities for the Department of Defense. In order to have a successful transition to the warfighter, the developed technology needs to be tested and demonstrated in several flight tests. This experimental license will support tests scheduled to take place in the spring of 2021 and 2022.

The flight tests will consist of up to ten (10) high altitude balloons with low power S-band transmitters. Each balloon will transmit a 1 MHz bandwidth signal in the requested frequency band. The S-band signal will be received by ground stations located in the operating area.

The balloons will be launched and flown by ground-based flight operators. During the flight tests the balloons will float at altitudes between 65,000 ft and 90,000 ft for up to twelve hours. All flight operations will be conducted using procedures and equipment that meet or exceed all FAA requirements.

The proposed flight tests will be conducted over a brief time period. Two flight tests will be conducted in the spring of 2021 and two in the spring of 2022. Each flight test has a maximum duration of twelve hours.