

MIT Lincoln Laboratory
STA Application
Confirmation Number: EL876866
File Number: 1687-EX-ST-2017

Exhibit 1

QUESTION 5: FAA Antenna Sketch

The Inductrix FPV Pro Video Transmitter BLH8570 is a component on a UAS which MIT Lincoln Laboratory will operate on Hanscom Air Force Base and in the designated location in Cambridge, MA. The flight tests are being conducted to support work under Air Force Contract FA8702-15-D-0001. An STA is requested to operate the video transmitter in the Amateur Radio band for business purposes since MIT Lincoln Laboratory cannot invoke Title 47 Chapter I Subchapter D Part 97 (Amateur Radio Service) in support of the Air Force Contract.

MIT Lincoln Laboratory has received FAA authorization (FAA Form 7711-1 UAS Part 107 Authorization Number 2017-ESA-816-P107) for UAS operations on Hanscom Air Force Base in the location listed in this application effective from March 2, 2017 to June 30, 2018. The UAS operations is limited to at or below 100 feet Above Ground Level. MIT Lincoln Laboratory has submitted an FAA waiver application for the Cambridge test site and expects to receive FAA authorization soon.