

Experiment Description

MIT Lincoln Laboratory

STA License Application

STA Confirmation Number: EL181050

STA File Number: 1695-EX-ST-2026

MIT Lincoln Laboratory is developing technology to improve the performance and protection of microwave band data links. The experiment will consist of fixed ground and mobile airborne communication systems that provide the data links under test. Each system contains two to four electronically scanned phased array antennas. The fixed ground system antennas will be mounted less than six meters above an existing building. The pointing of the ground station antennas is software controlled and the antennas will track the airborne system.

The airborne system antennas are installed on a manned aircraft. The airborne system will operate at altitudes between 5,000 ft and 25,000 ft MSL in the specified area of operations. The pointing of the airborne antennas is software controlled and the antennas will point at the ground station.

The tests will not include any type of directed energy / jamming / electronic attacks / spoofing / emulating / replicating/ RF jamming.

All flight operations will be conducted using procedures and equipment that meet or exceed all FAA requirements.

Stop buzzer point of contact:

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