

Antenna Registration Question 5: FAA Antenna Sketch

MIT Lincoln Laboratory

STA License Application

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The experiment will consist of a fixed ground station and an airborne communications system that supports data links. Each system contains an electronically scanned phased array antenna. The ground system antenna will be mounted less than six meters above an existing building. The pointing of the fixed location ground station antenna is software controlled and will track the airborne system.

The airborne system antenna is 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 over the Gulf of Mexico. The airborne antenna is software controlled and will track the ground system.