

Antenna Registration Question 5: FAA Antenna Sketch
MIT Lincoln Laboratory
STA License Application
Confirmation Number: EL911690
File Number: 0349-EX-ST-2024

The experiment will consist of both fixed ground and airborne communications systems that support data links. Each system contains two to four electronically scanned phased array antennas. 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 or another airborne system.