

Antenna Registration Question 5: FAA Antenna Sketch
MIT Lincoln Laboratory
STA License Application
Confirmation Number: EL979557
File Number: 1411-EX-ST-2021

The experiment will consist of four communications nodes – two fixed ground nodes and two airborne nodes. Each node contains an electronically scanned phased array antenna. The ground node antenna will be mounted less than six meters above ground level. The ground node will be in a fixed position. The ground node antenna will be mounted in a fixed position and the antenna beam will be electronically scanned.

The airborne node antenna will be located on a manned aircraft and mounted on the underside of the fuselage. The airborne node will be operated at altitudes between 5,000 ft and 18,000 ft in the specified area of operations. The airborne node antenna will be mounted in a fixed position and the antenna beam will be electronically scanned.

During flight tests, communications will be tested among the airborne and ground nodes. The proposed operation does not in any way relate to jamming and electronic attacks. All flight operations will be conducted using procedures and equipment that meet or exceed all FAA requirements.