

Exhibit A:

PURPOSE AND DESCRIPTION OF EXPERIMENT

The purpose of our experiment is to demonstrate and collect operational information of voice and data communication links between a fixed ground station and a rotary-wing aircraft.

The VHF/UHF communications will be two way: Fixed station to rotary-wing aircraft and rotary wing aircraft to fixed station. This testing will utilize VHF/UHF voice-grade radio manufactured by Raytheon Company, Raytheon RT-1808A Receiver/Transmitter. Experiments will test two-way voice transmission over VHF and UHF channels using AM & FM analog modulation techniques between the aircraft and fixed ground station.

The C-band communications will be from the rotary-wing aircraft to the fixed station only using a transmitter manufactured by L3 Communications, 60057879+001. The transmitter provides a data link, either analog or digital, to provide situational awareness data from the rotary wing aircraft to the fixed station using FM, FSK and O-QPSK modulation techniques.

The testing will utilize the same antenna set for both the aircraft and the fixed ground station. The Chelton VHF/UHF antenna is a vertically polarized omnidirectional in azimuth blade antenna.

The Antcom C-Band antenna is a vertically polarized omnidirectional in azimuth quarter wave monopole antenna.

The objective of the testing is to capture operational communication link quality at varying altitudes and aircraft line-of-sight angles relative to the fixed ground station. Position location of the base station is fixed with an antenna mounted no greater than 15 ft above ground level. The aircraft flight program will not exceed an 8km distance from the base station and will not exceed 2000 foot elevation above ground level.

The testing is to develop new platforms that incorporate voice and data communication links necessary for federal, state and military operations.