

### Description of Experiment

Rockwell Collins, Inc., a part of Collins Aerospace (“Collins”) seeks to test a newly developed radio technology with the purpose of developing other technologies capable of aimed at low visibility aircraft operations. The transmitting equipment is an airborne Electronically Scanned Antenna operated as a RADAR in either Frequency Modulated Continuous Wave (FMCW) or Pulsed mode, with the same continuous and average power characteristics. It enables detection and imaging of airborne and ground obstacles and targets to allow pilots to safely operate aircraft to approach and land in low visibility conditions.

The RADAR will be installed in the forward radome portion of a helicopter and operated in flight and, at one site, on the ground. See the sketch below:

