

Northrop Grumman Systems Corporation
0204-EX-PL-2014
Form 442 Application for New Experimental License
Exhibit

Northrop Grumman Systems Corporation Exhibit (Amended)

General Description: Purpose is to test experimental sensors for imaging and detection of obstacles for installation on helicopters. Aircraft would fly from Charlottesville, VA; Georgetown, DE; or Ft. Eustis, VA. There also would be a ground testing location at Linthicum, MD.

Government Contract: U.S. Government Contract HR001-11-0139 (DARPA).

Additional Waveform Information: Pulse widths to be used are: 10.9 μ sec, 340 nsec, 10.9 μ sec, 62.5 nsec, 3 μ sec; PRF(s): 25.1 kHz, 300 kHz, 29.3 kHz, 125.6 kHz, 110 khz.

Additional Antenna Information: The Northrop Grumman antenna is an Active Electronically Scanned Array (AESA) providing 49.5 dBi gain. Main beam width is 0.5 degrees horizontal, 0.74 degrees vertical with a 450 kHz beam to beam scan rate. Polarization is variable.