

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

Northrop Grumman Systems Corporation Exhibit

General Description: Purpose is to test experimental sensors for imaging and detection of obstacles for installation on helicopters. Aircraft would fly from Charlottesville, VA or Georgetown, DE with ground installation at those locations and 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.