

Request for Special Temporary Authority (“STA”)

Northrop Grumman has been contracted through IRAD to develop and test a radar system that will demonstrate the expected results of ground moving targets through foliage. This experiment will utilize a Synthetic Aperture Radar (SAR) in conditions where simultaneous radio frequency interference and terrain clutter interference are present. Northrop Grumman respectfully requests processing of this STA in time for the testing to commence by April 16, 2009.

The experimental transmissions will use a Northrop Grumman radar that will produce 126W peak power while operating in the 420 - 450 MHz band. The antenna has a gain of 11.5 dBi.