

EXPERIMENTAL DESCRIPTION – PYRAMID HORN
FORM 442 LICENSE REQUEST (File # 0314-EX-PL-2013)

ITT Exelis, located in Van Nuys CA, is scheduled to test our Air-to-Air Radar Subsystem (AARSS) which is the Ku-band Sense and Avoid radar for the Broad Area Maritime Surveillance (BAMS) air vehicle platform. This is being developed for Northrop Grumman for NAVAIR PMA-262 (US Navy). We are currently developing the AARSS stand-alone unit and the testing of this unit is to take place here at our ITT Exelis facility in the third quarter of 2013.

This digital radio frequency memory (DRFM) antenna is a standard pyramid WR75 horn with a gain of 20 dBi, operating over a frequency range of 10 to 15 GHz. The aperture is 3 to 4 inches. The beamwidth is 16.3 – 17.2 degrees. The antenna will be radiating at +10 dBm average power of the pulsed RF signals. This horn may physically be oriented to radiate over the azimuth anywhere within 360 degrees.

We request coordination and your permission to proceed with our testing by September 2013.

ITT Exelis will honor all conditions that may be necessary to prevent interference with any existing equipment and are willing to schedule the hours of operation to be during the hours of least air traffic in our vicinity.

The test location is at our Loop Canyon Test Range site; Bear Divide, Angeles National Forest, North Sand Canyon Road, Santa Clarita, Ca.

Lat: 34-21-11.0 N, Long: 118-25-1.0 W, Ground Elevation above mean sea level: 4,027 FT

In conclusion, we are looking forward to attain license approval and welcome any questions you might have. Please call me directly at (818) 901-2457.

Thank You,

Forrest Pierson
Frequency Manager
Sr. Support Cable Engineer
Forrest.pierson@exelisinc.com
818-901-2457