

**EXPERIMENTAL DESCRIPTION – FAR FIELD PARABOLIC REFLECTOR  
FORM 442 LICENSE REQUEST (File # 0311-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 particular paraboloidal reflector antenna has a gain of 41.24 dBi, operating over a frequency range of 13.25 to 13.4 GHz. The beamwidth is 1.43 degrees at Ku band. The antenna will be radiating at +34.8 dBm average power of the pulsed RF signals. This antenna beam is fixed in azimuth and elevation and is used to measure the antenna patterns and gain of the antenna under evaluation in the antenna far field test. For further details refer to the System Architecture Overview attachment per call sign WF9XZC, File # 0690-EX-ST-2012.

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

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](mailto:Forrest.pierson@exelisinc.com)  
818-901-2457