

Project Description Exhibit

Form 442 Confirmation Number: EL577862

Form 442 File Number: 0276-EX-PL-2005

Date of Submission: September 28, 2005

Applicant Name: STAR-H Corporation

Project Description: Measure and characterize radiated emissions from the foreign-made Squire low probability of intercept (LPI) anti-personnel radar. STAR-H Corporation will be providing testing support services and the use of its antenna measurement facilities. Operation of the radar will be controlled by STAR-H Corporation during all test activities.

System Description: The Squire radar is a low-power, low probability of intercept portable radar intended for antipersonnel applications. The radar unit is man-portable and battery powered and mounts onto a folding tripod. A phased array antenna steers the beam electrically to scan the area under observation. The radar waveform is spread-spectrum coded for low probability of intercept via low power spectral density in the transmitted waveform. The antenna has 29 dBi of gain on the main lobe and the unit transmits with a maximum of 1 Watt peak and average.

Project Sponsorship: STAR-H Corporation is working as a subcontractor to the Penn State University Applied Research Laboratory which is the prime contractor to the Marine Corps Systems Command, who is sponsoring the work.

Contract Number: M67004-03-D-0014

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Please note that the DD1494 form has several typographical errors including the emission designators on the first page. The correct emission designators have been used in this application.