

September 10, 2019

Federal Communications Commission
Office of Engineering and Technology
Experimental Licensing Branch
445 12th St., S.W.
Room 7-A322
Washington, DC 20554

Application Narrative for Proposed Special Equipment Program

Proposed Program

Trident Research is a DOD contractor (cage code 1TVN8) providing systems engineering and test instrumentation products to the United States military. Many of these services and products utilize GPS technology for positioning and timing. With the steady increase in GPS requirements in all facets of our business, it is our intent to incorporate GPS technologies into our products to further enhance their benefit and usefulness to our customers. The GPS Re-Radiator is required to facility test and development of GPS related instrumentation. We propose to install the GPS re-radiating equipment at our development and test laboratory to allow reception of GPS signals within this facility.

GPS Re-Radiating Amplifier: GPS Networking NLA30RPD-N/5/110

GPS Re-Radiating Amplifier: GPS Networking HNRRKAMP-N/5/110

GPS Re-Radiating Antenna: GPS Networking L1RRKPA-S

GPS Roof Antenna: GPS Networking L1GPSA-N

Objectives

We seek to accomplish the following objectives:

1. Illumination of our development and test laboratory with re-radiated GPS Signals
2. Further design, development and enhancement of existing products and new product testing
3. Ability to troubleshoot and repair previously manufactured equipment

Contribution to Radio Art

Projects are currently under way at Trident Research LLC. to provide better and more useful GPS solutions to incorporate GPS-derived information (position, speed, and heading) in a variety of innovative applications to improve state-of-art testing, design and quality control for the development of our test instrumentation products for the US military.