

Troxler Electronic Laboratories
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FEDERAL COMMUNICATIONS COMMISSION
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Application Narrative for Proposed Special Equipment Program

Proposed Program

Troxler Electronic Laboratories, Inc. is the Original Equipment Manufacturer (OEM) of several precision quality control and measurement equipment, including nuclear gauges, gyratory compactors and asphalt ignition ovens. 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. Our proposed set up is already in use and specified in the approved application to re-radiate GPS Signals (WD2XTF). We propose to install the GPS re-radiating equipment at our development and test laboratory to allow reception of GPS signals within this facility.

The proposed equipment is of a design and power output similar to a kit manufactured by GPS Source which has been licensed (WD2XTF) to re-radiate in their test lab.

GPS Repeater Kit P/N: NRRKAMP-N/5/110
GPS Roof Antenna: 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 Troxler Laboratories to provide better and more useful GPS devices to incorporate GPS-derived information (position, speed, and heading) in a variety of innovative applications to improve state-of-art testing and quality control measurement equipment for the construction industry.