

LXE Inc.
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FEDERAL COMMUNICATIONS COMMISSION
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Application Narrative for Proposed Special Equipment Program

Proposed Program

LXE Inc. designs rugged wireless computers and data collection solutions that improve supply chain performance. LXE's programs have evolved from initial programs for developing wireless communications systems for the US space program to the current broader market of ultra-rugged and reliable mobile computing technologies. With the steady increase in GPS requirements in all facets of our business, it is our intent to continue 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. This installation is integral in supporting and developing new applications in addition to supporting radio integration, wireless network design, technical support and repair services.

The equipment we intend to use is identical to systems that are used and successfully licensed in several prior instances.

GPS Repeater Kit P/N: PNRRKIT-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 LXE Inc. 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 the development of ultra-rugged and reliable mobile computing technologies.