

TSAIA Aircraft Maintenance
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FEDERAL COMMUNICATIONS COMMISSION
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Application Narrative for Proposed Special Equipment Program

Proposed Program

TSAIA Aircraft maintenance is a facility located away from metropolitan areas and at this location is in the business of limited production, development and experimental test of a variety of aircraft.

The systems under testing are used in civilian and military aircraft. Many of these systems used aboard these aircraft are designed to facilitate anti-terrorism activities as well as assist in humanitarian efforts. Bringing the L1 GPS Signal inside the hangar will greatly enhance our ability to expedite installation and conduct comprehensive testing and development of these systems.

Our proposed set up is already in use and specified in the approved application to re-radiate GPS Signals (WD2XTF). The proposed equipment is of a design and power output similar to a kit manufactured by GPS Source which has been licensed to re-radiate in their test lab.

GPS Repeater Kit P/N: RK-304 GPS Reradiator from San Jose Navigation

Objectives

We seek to accomplish the following objectives:

1. Illumination of our development and test areas with 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 TSAIA to provide better and more useful GPS systems to incorporate GPS-derived information (position, speed, and heading) in a variety of innovative applications to improve state-of-art military and civilian navigational systems.