

PROPOSED PROGRAM

FLIR Detection, Inc. is the designer and manufacturer of hand held devices that detect and identify radioactive materials. As a feature on some of our products, we include the ability to provide GPS coordinates on the device. In order to ensure proper functionality of the GPS receivers in our devices, we must test them accordingly. Based on our needs, we propose to install a GPS repeater kit in the production and service testing areas of our facility.

The equipment we would prefer to install is manufactured by GPS Source (64 N. Mission Dr., Pueblo West, CO 81007), which is a company that specializes in GPS products used for commercial, military, and personal GPS solutions.

The equipment to be installed is as follows:

Part number	Description
L1A-PM-NF	GPS L1 Active antenna 38dB gain with pole mount, NF
L1P-MF	GPS L1 Passive antenna, NF
A11-M-V-P110/5-NF-NM	GPS In-line amplifier, 30dB variable gain, Power 110/5, NF, NM

OBJECTIVES

The specific objectives to be accomplished with the installation of these products is

- To provide our test/development area with re-radiated GPS signals
- To make the GPS development process more convenient and efficient for next generation devices
- To provide efficient testing of our GPS capable products that are currently in production
- To provide efficient testing of our GPS capable products that are returned for routine service

EXPERIMENTATION CONTRIBUTION

FLIR Detection Inc. is one of the only manufacturers to provide GPS capability in handheld radiation detection/identification instruments. Including this technology in our devices sets the mark for similar instruments in the future and, therefore, aids in the progression GPS use in comparable handheld devices.