

FCC Application for Experimental License

File Number: 0477-EX-PL-2009

SRC respectfully requests to the Federal Communications Commission to grant us an Experimental License for a L1 GPS re-radiating antenna system.

This system will permit design and development to occur with devices that have embedded (i.e., non-removable) GPS antennas. The GPS signal is not sufficiently strong enough to penetrate the windows or reach the interior spaces of our laboratory.

Since work with laboratory test equipment is required, testing in an outdoor environment is not supportable for our programs. The GPS re-radiating system would permit design and development to occur with the minimum disruption of work and in all weather conditions.

Our plan is to install the outdoor antenna on the roof of the building and feed the coaxial cable through the existing conduit run into the room below. The amplifier and splitter would be located inside a room. A coaxial cable would extend to reach the re-radiating antenna located in the hallway ceiling. The gain of the amplifier would be limited to provide GPS coverage only over the required distance to comply with FCC and NTIA regulations.

SRC has also designated the "Stop buzzer" contact in the event interference is encountered to be Mr. Mark Braunstein, Manager, Communications Devices 703-961-5519.