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FCC Form 442 - Experimentation Description

Research Innovations Incorporated (RII) is a Virginia based company that provides software products and engineering services predominantly in the National Security space. We have approximately 400 employees across the United States that work with United States government organizations to research and develop solutions that make the world safer. RII's laboratories are equipped with government furnished equipment and other commercial hardware that require timing, synchronization, and position data provided by the GPS constellation. This equipment comes with GPS antenna receivers and in need of an over-the-air transmitted GPS signal to receive timing, synchronization, and positioning information. As such, we are requesting an experimental license to retransmit GPS signals into an open-air-lab within our buildings. We would like to purchase commercial GPS retransmission systems from approved manufacturers like GPS Source and NavTech GPS that come with an external antenna that is connected (rf over cable) to a low power interior retransmission system. The systems are capable of receiving and transmitting GPS L1, L2, and L5 signals.

The 2 specific locations where RII plans to operate open-air-labs with FCC experimental license approval are:

- 6363 Walker Lane, Suite 500, Alexandria, VA 22310
- 1901 S Harbor City Blvd, Suite 801, Melbourne, FL 32901