



Federal Communications Commission
Experimental Radio Service
P.O. Box 358320
Pittsburgh, Pa. 15251-5320

To Whom It May Concern:

Please accept this letter as a formal application for an Experimental License pertaining to the following product development. Curtiss Wright Controls (CWC) is developing product enhancements and derivatives of its Ultra-Wideband radar system known as QUPID. QUPID is an acronym for Quick reaction Perimeter Intrusion Detection sensor. This filing is in response to the pending expiration of an STA for the same locations. The contract number is F19628-97-D-0038, the agency is the USAF Electronic Systems Center, Force Protection C2 Systems. The Air Force point of contact is Captain Smallis. The following information is included to comply with the requirements pertaining to obtaining a license for experimental operation.

The license is required at our facility in Littleton Massachusetts and at a nearby field at Devens Massachusetts. The purpose of this filing is so that CWC may continue the demonstration, development, test, and introduction of QUPID and QUPID derivative products. The base of operations will take place at our facility at 30 Porter Rd. in Littleton, Massachusetts, 01460. North Latitude = 42 31 43 West Longitude = 71 30 51, and at 2 Devens sites. Site one is at coordinates North Latitude = 42 32 42 West Longitude = 71 36 43. Site two is at coordinates North Latitude = 42 32 44 West Longitude = 71 36 46.

The timetable required for operation is continuous from the present time, through to the end of a proposed 2 year development cycle. If required, CWC will apply for an extension by submitting an application at least 15 days before the expiration date of the license.

The class of station is fixed. The frequency of operation of the present UWB transmitter extends from 2154 MHz to 3013 MHz at the 10 dB points of the radiated spectrum. Thus the transmitter 10 dB bandwidth is 859 MHz. There is no information modulation as the device is a radar system. It is a pulsed transmission; with a Pulse Repetition Frequency (PRF) being a dithered 2.441 KHz rate. Up to 10 QUPID sensors will be operated simultaneously along with the other experimental transmitters described above.

Regards,

David Masucci
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Vista Controls
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