

Persistent Systems, LLC
Form 442 Experimental License Application
File No. 0375-EX-CN-2019

NARRATIVE EXPLANATION OF OPERATION AND NATURE OF APPLICANT

Persistent Systems, LLC, a Limited Liability Company based in New York City, is an American manufacturer of high speed, secure data networking equipment for both military/defense and industrial, non-government applications. Principally, Persistent manufactures scalable mobile networking systems based on Wave Relay MANET (Mobile Ad Hoc Networking) Technology. Persistent's products permit voice, video, and situational awareness to mobile users with no reliance on fixed infrastructure. For more than a decade, Persistent has been a pioneer in developing advanced MANET technology and commercializing it in the Defense and Industrial sectors.

Persistent has ongoing R&D activities to develop MANET products for Army, Navy and other Defense Department deployment which necessitates a longer period of testing and deployment at its facilities in Fort Collins, Colorado than is available pursuant to Special Temporary Authority. An Experimental license for equipment similar but not identical to that requested herein was granted recently. See, WJ2XWT, File No. 0898-EX-CN-2018. However, it is necessary to test tracking antennas using higher ERP than was specified in WJ2XWT and therefore a new Experimental license is sought now for one of the frequency ranges granted in WJ2XWT. This is entirely terrestrial operation proposed to be conducted with respect to radio modules in the band 2200-2290 MHz which will be for MANET systems and component products for military deployment only using the tracking antenna under test. Though the center frequency 2277.00 MHz (with a 20 megahertz occupied bandwidth emission) is the preferred frequency within the band 2200-2290 MHz to provide a consistent benchmark for testing and evaluation in this environment, the frequency agility of the system and the data modules includes 2200-2290 MHz in 5 MHz steps. Frequency changes can be conducted remotely should the need to do so arise to avoid interference. All operation will cease immediately in case of any reported interference and not resume until the complaint is resolved to the reasonable satisfaction of the complainant.

The stop buzzer contact for this operation is Ms. Temeasha Scott, RF Network Engineer at Persistent Systems, LLC in Fort Collins, who can be reached at 646-518-8966, or by mobile phone at 706-409-6820. Her e-mail address is tscott@persistentsystems.com.

Other inquiries can be directed to communications counsel for the applicant:

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