

Persistent Systems, LLC
Form 405 Experimental License Renewal Application
WJ2XTP
File Number: 0624-EX-CR-2026

NARRATIVE EXPLANATION OF NEED FOR LICENSE RENEWAL

Persistent Systems, LLC wishes to renew its granted Experimental License to continue to permit ongoing sector and tracking antenna tests at its New York City, NY headquarters. All operating parameters would remain the same.

Persistent is a Limited Liability Company based in New York City. It 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 Systems products permit voice, video, and situational awareness for 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 Defense and industrial sectors.

Persistent has ongoing R&D activities to develop MANET products for the Army, Navy, Air Force, and other Defense Department deployments, and for the Department of Homeland Security, which necessitates a longer period of testing and deployment at its New York City headquarters than would be available pursuant to a grant of Special Temporary Authority. Experimental licenses have allowed development and proof-of-concept testing of equipment manufactured by Persistent. These have been granted in the past few years for similar purposes at other locations and for New York City, NY.

WJ2XTP permits research and development of Sector Antenna systems for Persistent Systems products for deployment at military and other Federal facilities on Federal Government S-Band and Lower C-Band frequencies. Specifically, the Sector Antennas and Tracking Antennas are under development for both the Department of Defense and for the Department of Homeland Security (and specifically for Customs and Border Protection). Operation is entirely terrestrial and restricted to radio modules within the 2200–2290 MHz band, utilized strictly for MANET systems and component products deployed by military and DHS entities with the sector antennas under test. The location of this experimental operation is critical, as it allows Persistent personnel working directly with customer representatives on-site to test and implement the newest additions to the technology and the software of these products called for by certain units of the US Army, Navy, and Air Force.

Through WJ2XTP, Persistent Systems, LLC has furthered U.S. Government capabilities in key areas. Its developed technology has advanced the future of secure mobile communication architectures with integrations in machine learning.

There have been no interference reports received whatsoever from past experimental operations using the parameters specified in WJ2XTP at this location. However, frequency changes can be

conducted remotely should the need to do so arise to avoid interference. All operations will cease immediately in case of any reported interference and will not resume until the complaint is resolved to the reasonable satisfaction of the complainant.

Inquiries pertaining to this application can be directed to the consulting engineer noted below.

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