

Persistent Systems, LLC
Request for Grant of Special Temporary Authority
File No. 1527-EX-ST-2018

NARRATIVE EXPLANATION OF OPERATION AND FREQUENCY COORDINATION

Persistent Systems, LLC requests a grant of special temporary authorization for terrestrial-only testing and demonstration of a mobile networking (MANET) product line at a single location in Westford, Massachusetts. Defense and industrial customers have requested testing of the Persistent Systems mobile networking system for evaluation of this technology for terrestrial mobile operations. Testing of this system was permitted by the Commission in a previously-granted STA (See, WM9XGX, File No. 0102-EX-ST-2018). The instant application seeks essentially the same facilities at a different location.

A variety of frequency ranges is specified, each for one single channel with a 20 megahertz occupied bandwidth emission. In each case, the preferred frequency range is specified, to provide a consistent benchmark for testing and evaluation. However, the frequency agility of the system is reasonably broad, in 5 MHz steps. Frequency change can be conducted remotely should the need to do so arise. Testing will cover systems operation, real-time sensor/ telemetry data, and high definition full motion video to and from individual data links. Throughout the testing period, frequency changes and/ or complete shutdown of all radiating sources from the Wave Relay units can be accomplished immediately. No antenna will exceed 6 meters AGL.

Use of the range 2367-2377 MHz will be coordinated with AFTRCC and evidence of coordination will be submitted when received as an additional exhibit to this application.

Should any interference be reported, all testing and demonstrations will cease immediately and will not resume unless and until all such interference is resolved to the reasonable satisfaction of the complainant.

The stop buzzer contact for this operation is undersigned communications counsel, who can be reached by mobile phone at 301-351-3795.

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