

**Persistent Systems, LLC
Request for Grant of Special Temporary Authority
File No. 0498-EX-ST-2021**

NARRATIVE EXPLANATION OF OPERATION

Persistent Systems, LLC requests a grant of special temporary authorization for a period of thirteen days (05/09/2021-5/22/2021) for short-duration, terrestrial-only, proof of concept technical demonstrations and testing of a mobile (MANET) product line at civil end-user Los Angeles client locations within 20 miles (32.1 kilometers) of center coordinates in Los Angeles County, California. The product line was developed for Federal government use and the frequency band selected for these tests is understood to be unavailable for civil end-users at any time. Civil applications of the system would be by mobile users on foot or in terrestrial vehicles.

Two frequency ranges are specified within the band 2200-2290 MHz, 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 steps of 5MHz, 10MHz, 20MHz in the event that either or both of these two channels require some adjustment. If only one of the two proposed channels is available, Persistent Systems will accept whichever one proves to be workable in the proposed operational area.

The system can operate between a maximum of 10 Watts and a minimum of 12 milliwatts TPO. Frequency and power changes can be conducted remotely and the minimum power necessary will be used in each test. Throughout the testing period, frequency changes and/or complete shutdown of all radiating source from the transmitting units can be accomplished immediately.

Antennas will be installed at 5 feet AGL and all locations will be at least 30 km from the nearest airport landing area. All antennas utilized will be omnidirectional and low gain (i.e. less than or equal to 3dBi).

Should any interference be reported, all technical demonstrations and testing will cease immediately and will not resume unless/until all such interference is resolved to the reasonable satisfaction of the complainant. *The stop buzzer contact for this test is Mr. Alex Marois*, whose telephone number is (212) 561-5895. Undersigned counsel can also serve as a Stop Buzzer contact at (301) 351-3795 (mobile). All questions should be directed to undersigned communications counsel, who can be reached as follows:

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