

Persistent Systems, LLC
Request for Grant of Special Temporary Authority
File No. 0623-EX-ST-2019

NARRATIVE EXPLANATION OF OPERATION

Persistent Systems, LLC requests a grant of special temporary authorization for terrestrial-only testing of a mobile networking (MANET) system to fulfill a contract for the United States Navy at four locations at and near Virginia Beach, Virginia. It is urgent to conduct point-to-point testing of embedded modules utilizing various embedded antennas to and from various locations within a 50-km radius of Virginia Beach, Virginia. The antennas will be both omnidirectional with between 3 and 8 dB of gain, and directional sector antennas with up to 12 dB gain. The center frequency at each location will be 2227 MHz, 2377 MHz, 1372 MHz, 4700 MHz and 4890 MHz with a 20 megahertz occupied bandwidth. Power levels will be either 6 or 10 watts TPO with ERP levels at either 6.50 W, 10.4 W, 23.08 W, 38.46 W or 96.61 W. All of the transmit locations specified herein are each located on either of two Military installations, Joint Expeditionary Base Fort Story and Joint Expeditionary Base Little Creek, in Virginia Beach. One transmit location is on a United States Navy Vessel operating at Little Creek and in the Chesapeake Bay nearby. Antenna heights will vary among less than 6 meters AGL, 12.9 meters AGL or 47.55 meters AGL. In the technical portion of the application, the worst-case configuration is listed.

AFTRCC Coordination for the channel 2377 MHz has been applied for and coordination will be filed when received.

Throughout the testing period, complete shutdown of all antennas can be accomplished immediately. Should any interference be reported, all testing and evaluations 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 Mr. Anthony Maringo*, whose mobile number is 732-829-2805. Other questions should be directed to undersigned communications counsel, who can be reached as follows:

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