

Persistent Systems, LLC
Request for Grant of Special Temporary Authority
File No. 0146-EX-ST-2020

NARRATIVE EXPLANATION OF OPERATION

Persistent Systems, LLC requests a grant of special temporary authorization for two days only for a terrestrial-only demonstration of a high speed data transmission (MANET) product line at the Thunderstorm 20-1, a trade show which focuses on DOD-based technologies. This application is being filed due to the specific request of the trade show, which has requested a demonstration of the Persistent Systems mobile networking system for evaluation purposes.

A variety of frequency ranges are specified, each for one single channel with a 20-megahertz occupied bandwidth emission. Power levels are flexible, between 12 milliwatts and 10 watts of power. Frequency and power can be adjusted remotely. The testing will cover system operations, real time sensor/telemetry data, voice communications, high definition full motion video to and from individual data links. Complete shutdown can occur immediately in case of interference.

The antennas will be omnidirectional portable antennas within 300 meters of the Dulles Expo Center in Virginia. Antenna gain will be less than 3 dB of gain. The center frequencies will be 2377 MHz, 4700 MHz and 4880 MHz with a 20 megahertz occupied bandwidth. Antenna heights will be less than 6 meters AGL.

AFTRCC Coordination for the channel 2377 MHz will be applied for and coordination will be filed when received. It is understood that all operation pursuant to this STA is on a strict non-interference basis to Flight Test telecommunications and only terrestrial operation is proposed. 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 Gabriel Pagliere, whose mobile number is 732-979-9487. Other questions should be directed to undersigned communications counsel, who can be reached as follows:

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