

Persistent Systems, LLC
Request for Grant of Special Temporary Authority
File No. 2266-EX-ST-2023

NARRATIVE EXPLANATION OF OPERATION

Persistent Systems, LLC requests grant of special temporary authorization for terrestrial-only testing and demonstration for California Water Service (Calwater) of an MPU5 Wave Relay communications network system at a single location at Stockton, California, and within a four mile (6.4 km) radius, during the period December 3-8, 2023. The purpose of the STA is to conduct demonstrations of this system. Calwater is a private company and not a government entity, which provides critical services and infrastructure support for the State of California. Persistent will be demonstrating a network solution to connect satellite, water tanks and remote/obscure, water tanks in districts supported by Calwater (Stockton being the demo location). Calwater is in search of modern and efficient network solutions to bi-laterally move data (sensor/audio/video) across their infrastructure for security, safety and efficiency of service. *Though this demonstration will be using existing Persistent equipment that is currently being deployed by Federal government agencies, the demonstration is for proof of concept purposes and any ultimate deployment of the technology by Calwater will be in a non-Federal allocation.*

There will be six transmitters within the operating radius of a single specific location, with center frequencies of 2252 MHz and 2277 (or any two center frequencies in the band 2210-2280 MHz if 2252 MHz or 2277 MHz is not available), each transmitter using a 20 MHz occupied bandwidth and a D1D emission. Antennas will be omnidirectional, mounted no higher than 6 meters AGL. The transmitters will be operated at up to 10 watts TPO and 96 watts ERP.

Throughout the brief testing period, complete shutdown of all antennas can be accomplished immediately. 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 Mr. Jose Garcia of Persistent, whose mobile number is 917-728-5851. Other questions should be directed to undersigned communications counsel, who can be reached as follows:

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