

Persistent Systems, LLC  
Request for Grant or Extension of Special Temporary Authority  
File No. 0270-EX-ST-2020

## NARRATIVE EXPLANATION OF OPERATION AND FREQUENCY COORDINATION

Persistent Systems, LLC requests a single additional grant (or a single extension) of special temporary authorization for terrestrial-only testing, together with Northrop Grumman, of a mobile networking system at the Matrix International Security Training Intelligence Center (MISTIC) in Roswell, New Mexico for the purpose of munition testing on the single frequency 2277 MHz. There will be one further testing event, which will occur on March 5-15, 2020. *This STA request is identical in all respects to WP9XYU, File No. 0017-EX-ST-2020*, which addressed testing during two periods in January and February of this year. A third test will occur during the March time period. *Persistent does not anticipate any further similar requests* at this venue for this course of testing.

MISTIC falls under the jurisdiction of White Sands Missile Range (WSMR), New Mexico and normally only military frequencies would be utilized at this location; however, WSMR are aware of the prior testing and the instant STA application.

The center frequency 2277 MHz is the single channel requested, with a 20 megahertz occupied bandwidth emission. Throughout the testing period, frequency changes and/ or complete shutdown of all radiating sources from the device can be accomplished immediately. No antenna will exceed 6 meters AGL. Both omnidirectional and directional antennas will be deployed. The application form reflects the directional antenna characteristics. The omnidirectional antennas will have a vertical beamwidth of 77 degrees, with an ERP of 10 watts and a gain of 2 dB.

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

Persistent Systems, LLC will comply with the conditions associated with the prior STA grant for WP9XYU, including the following:

(A) Operations will be scheduled with the DoD Area Frequency Coordinator - WSMR, at least 96 hours prior to operation, via e-mail to [usarmy.wsmr.imcom-central.list.dodafc@mail.mil](mailto:usarmy.wsmr.imcom-central.list.dodafc@mail.mil). When scheduling operations, Persistent will provide the exact dates/times of test, along with an electronic copy of the final FCC STA.

(B) Notification will be provided to the NASA GSFC Spectrum Management Office at [NASA-DL-GSFC-SPECTRUM-MANAGEMENT@MAIL.NASA.GOV](mailto:NASA-DL-GSFC-SPECTRUM-MANAGEMENT@MAIL.NASA.GOV), at least 3 days prior to any operations within 125 km of NASA White Sands Center (WSC).

The stop buzzer contact for this operation is Mr. Chris Wallower of Persistent Systems, LLC, [cwallower@persistentsystems.com](mailto:cwallower@persistentsystems.com), who can be reached by mobile phone at 646-518-8909. Other information can be provided by undersigned communications counsel.

Christopher D. Imlay  
Booth, Freret & Imlay, LLC  
14356 Cape May Road  
Silver Spring, MD 20904-6011  
(301) 384-5525 office telephone  
(301) 384-6384 facsimile  
(301) 351-3795 mobile  
[chris@imlaylaw.com](mailto:chris@imlaylaw.com)