

Persistent Systems, LLC
Request for Grant or Extension of Special Temporary Authority
File No. 1741-EX-ST-2020

NARRATIVE EXPLANATION OF OPERATION AND FREQUENCY COORDINATION

Persistent Systems, LLC requests a single additional grant (or an 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) for the purpose of munition testing on the single frequency 2277 MHz. Follow on testing was delayed due to team members exposure to COVID-19. As such, testing scheduled for November 2020 has been delayed into December. New test event is scheduled to occur December 2 - 18, 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. The main operation for this event will be approximately 120km NNW of Roswell, NM. The main operation for this event will be approximately 120km NNW of Roswell, NM centered at North 34° 25' 2", West 104° 56' 7".

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 beam width 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.dodaafc@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, 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, who can be reached by mobile phone at 646-518-8909. Other information can be provided by the POC listed below as needed.

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