

Exhibit 2 for STA file # 1486-EX-ST-2022

Submitter:

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In cooperation with:

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The subject device is a small, low-power radar being developed by Ideal Innovations Inc. (I-3) and Army Research Laboratory (ARL). The radar flies on a small multi-rotor drone at altitudes of less than 100 feet above ground. We also operate the radar on the roof of a ground vehicle, approximately 8 feet above ground. It is a synthetic aperture radar that operates a fixed angle of 22 degrees relative to horizontal as the platform moves in a straight line.



Low-power radar flying on a Tarot X8 drone.

Request to expedite: During September 19-30, 2022, I-3 and ARL are participating in a large test exercise sponsored by the Office of Naval Research. Camp Pendleton requires us to obtain the STA. Our team needs to travel on 9/14/22, so we respectfully request approval by 9/13/22 if possible.

Frequencies: The radar uses a swept-frequency pulsed signal that operates from 500 MHz to 4000 MHz.

Radiated power: **We will operate the radar at power levels below the levels of Title 47 Part 15.209.** The system will operate at an effective radiated power (ERP) of less than 250 mW, which equates to a field strength of 121 mV/m at 3 meters.

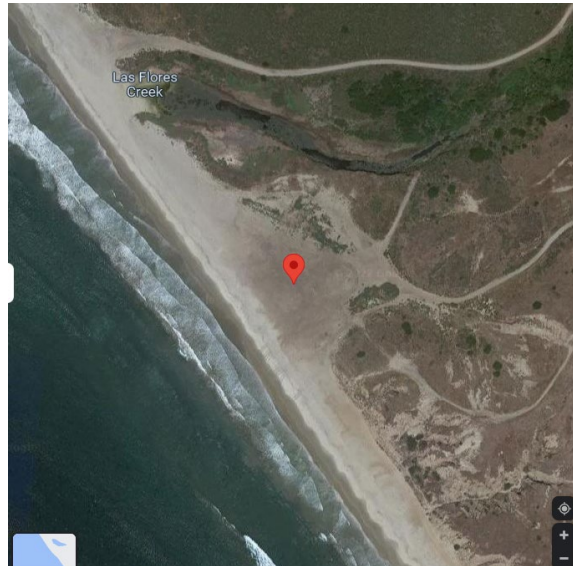
Hours of operation: We expect to operate for a total of 2 hours per day (12 flights, each lasting 10 minutes). Operating hours are 0800 to 1800 on September 19-23 and 26-29.

Locations: We will operate the radar at two locations roughly 7 km apart at USMC Camp Pendleton. In both locations, we will operate only within a small area (radius less than 500 meters).

Location 1, Red Beach

Lat/lon 33.288473, -117.462859

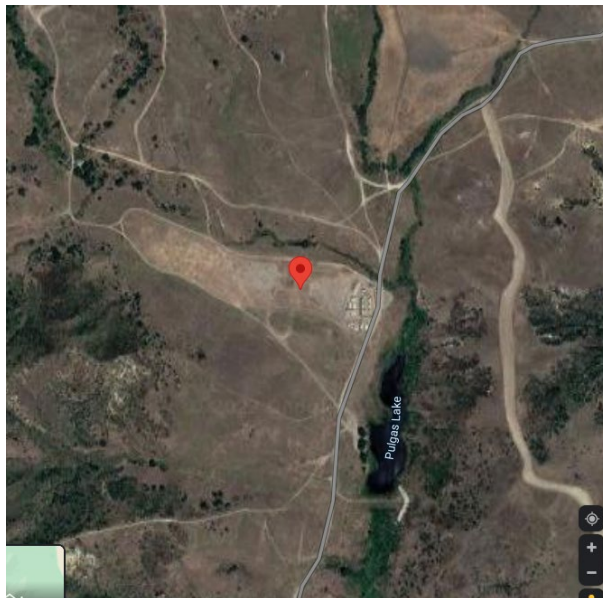
Radius of operation 200 meters



Location 2, PDL Combat Village

Lat/lon 33.348585, -117.440062

Radius of operation 400 meters



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