

DESCRIPTION OF THE LOCATIONS OF THE PROPOSED OPERATIONS
NIITEK INC.
APPLICATION FOR EXTENSION OF SPECIAL TEMPORARY AUTHORITY
0527-EX-ST-2010
APRIL 25, 2011

As described in the STA Application, laboratory and outdoor testing will be performed at NIITEK's facility located at:

23031 Ladbrook Drive
Dulles, VA 20166

The "Ladbrook facility" is constructed of a steel frame, composite siding, and a metal roof, and includes a sensor development lab and a system lab. In addition, some system testing activities are conducted in the parking lot around the building. The sensor development lab is an engineering laboratory where all R&D sensor builds and testing is performed. The sensor development lab is approximately 2500 square feet of floor space configured with benches and fixtures appropriate for the development of ground penetrating radar technologies. The system laboratory, also housed within the Ladbrook facility, is a 4500 square foot space used for installation and integration of NIITEK's detection systems onto customer vehicles, as well as subsequent testing of the system. The focus of this lab is system level and only the GPR interface and interaction with the rest of the system is tested. These interfaces are both electrical and mechanical.

Also, production (and production testing) will occur at the production facilities located at:

1725 Discovery Drive
Charlottesville, VA 22911

And

4010 Hunterstand Court
Charlottesville, VA 22911

Production testing will occur at these two separate facilities with independent activities at each. The Discovery Drive facility is a 52,000 square foot facility that is constructed of a steel frame, brick exterior, and tar/gravel roofing. Approximately 3000 square feet of this facility is used for radar testing. The predominant test activity here is tuning (or calibrating) the radar panels by reflecting the signal off of a stationary target at a known and fixed distance and orientation to the radar. This activity is done in a single interior room that will be lined with material designed to attenuate the signal exiting the area.

The Hunterstand Court facility is an 11,000 square foot building that is constructed of a steel frame, metal siding, and a metal roof. This facility is used for testing HMDS systems fully integrated on a surrogate fixture. The radar panels are radiated into the concrete flooring during this test. Either reduced power output or an attenuation cover will be used during this test to ensure that the emissions from the radar remain below the Part 15 limits.

Below are aerial views of the Dulles and Charlottesville facilities, which demonstrate the isolated nature of the testing locations.

23031 Ladbrook Drive
Dulles, VA 20166
Lat: 38.9785
Long: -77.4871

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a38°58'40.59"N -77°29'07.84" 45 elev 28\$ ft

Eye alt 2572 ft

1725 Discovery Drive
Charlottesville, VA 22911
Lat: 38.1493
Long: -78.4418

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A20.10

7.85" it 7025'48.99"W - elev. 604'6

An aerial photograph of a large industrial or commercial complex. The facility consists of several large, white, rectangular buildings with flat roofs, arranged in a cluster. There are extensive parking lots with many vehicles. The complex is surrounded by a mix of green trees and brown, cleared land. A road with multiple lanes runs along the right side of the image. In the bottom right corner, there is a Google Earth interface element showing the 'virk' logo and the Google logo. At the bottom center, there is a coordinate overlay: 38°08'48.37" N 78°26'31.16" W elev 564 ft. In the bottom left corner, there is a small text overlay: &Ai Dite, eb 1. 26. 07. In the bottom right corner, there is a small text overlay: Eye alt 2714 ft. The image is a Google Earth screenshot with a coordinate overlay.