

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
SPECIAL TEMPORARY AUTHORIZATION**

EXPERIMENTAL

(Nature of Service)

WG9XCU

(Call Sign)

XT FX MO

(Class of Station)

0805-EX-ST-2012

(File Number)

NAME NIITEK INC.

This Special Temporary Authorization is granted upon the express condition that it may be terminated by the Commission at any time without advance notice or hearing if in its discretion the need for such action arises. Nothing contained herein shall be construed as a finding by the Commission that the authority herein granted is or will be in the public interest beyond the express terms hereof.

This Special Temporary Authorization shall not vest in the grantee any right to operate the station nor any right in the use of the frequencies designated in the authorization beyond the term hereof, nor in any other manner than authorized herein. Neither the authorization nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This authorization is subject to the right of use of control the Government of the United States conferred by Section 706 of the Communications Act of 1934.

Special Temporary Authority is hereby granted to operate the apparatus described below:

Purpose Of Operation:

NIITEK requires an STA for operation of the GPR as described below in order to ensure that the GPR functions properly; to upgrade the GPR in order to detect new devices and other emerging

Station Locations

- (1) Dulles (LOUDOUN), VA - NL 38-58-47; WL 77-29-03; MOBILE: 23031 Ladbrook Drive, Dulles, VA 20166
- (2) Charlottesville (ALBEMARLE), VA - NL 38-08-58; WL 78-26-31; MOBILE: 1725 Discovery Drive, Charlottesville, VA 22911
- (3) Charlottesville (ALBEMARLE), VA - NL 38-08-52; WL 78-26-33; MOBILE: 1615 Quail Run, Charlottesville, VA 22911

Frequency Information

Dulles (LOUDOUN), VA - NL 38-58-47; WL 77-29-03; MOBILE: 23031 Ladbrook Drive, Dulles, VA 20166

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
200-7000 MHz	MO	6G80P0N	1.2 mW (ERP)	5 %

This authorization effective November 29, 2012 and
will expire 3:00 A.M. EST May 29, 2013

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Charlottesville (ALBEMARLE), VA - NL 38-08-58; WL 78-26-31; MOBILE: 1725 Discovery Drive, Charlottesville, VA 22911

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
200-7000 MHz	MO	6G80P0N	1.2 mW (ERP)	5 %

Charlottesville (ALBEMARLE), VA - NL 38-08-52; WL 78-26-33; MOBILE: 1615 Quail Run, Charlottesville, VA 22911

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
200-7000 MHz	MO	6G80P0N	1.2 mW (ERP)	5 %

Special Conditions:

- (1) All emissions radiating from top or sides of this equipment must be below FCC 47CFR15.509.
- (2) The GPR will be operated inside NIITEK's sensor development laboratory and provide shielding around the GPR to ensure that radiation levels outside of the lab are attenuated below the FCC requirements.
- (3) During the system integration testing phase, ensure the GPR is operated in NIITEK's system lab and in the surrounding parking lot. Ensure the testing in the surrounding parking lot will involve lower transmitted power and or a cover placed over the antenna to attenuate the signal within FCC parameters.
- (4) For testing with the GPR mounted on vehicles on NIITEK's property, the GPR will either be in a reduced power mode or will be covered by an attenuation cover to ensure all emissions are below the Part 15 parameters. During testing, the antenna will be intentionally operated about 10 inches above the ground with the center line or focus of the beam directed into the ground. During the background subtraction process, the GPR antenna will be approximately 1.2 meters above the ground and directed at about a 65 degree angle to the ground.