

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

EXPERIMENTAL

(Nature of Service)

WM9XZG

(Call Sign)

XC MO

(Class of Station)

1141-EX-ST-2018

(File Number)

NAME Camgian Microsystems Corporation

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:

Camgian intends to operate the Prowl radar unit in the specified locations for underground testing.

Station Locations

- (1) MOBILE: Nashville, TN. Vanderbilt campus, within 1 km, centered around NL 36-08-38; WL 86-48-12
- (2) MOBILE: COUGAR, WA. Ape Cave., within 2 km, centered around NL 46-06-34; WL 122-12-41
- (3) MOBILE: Snoqualmie Pass, WA., within 3 km, centered around NL 47-23-42; WL 121-25-20
- (4) MOBILE: Stumphouse Tunnel, SC, within 1 km, centered around NL 34-48-39; WL 83-07-26
- (5) MOBILE: Forneys Creek, NC, within 1 km, centered around NL 35-27-33; WL 83-32-17
- (6) MOBILE: Seattle, WA, within 1 km, centered around NL 47-36-01; WL 122-19-56
- (7) MOBILE: Penn State campus, PA, within 1 km, centered around NL 40-47-53; WL 77-51-36
- (8) MOBILE: Texas Tech campus, TX, within 1 km, centered around NL 33-35-10; WL 101-52-29
- (9) MOBILE: Mosier Twin Tunnels, OR, within 1 km, centered around NL 45-41-03; WL 121-25-18
- (10) MOBILE: Virginia Tech campus, VA, within 1 km, centered around NL 37-13-42; WL 80-25-24
- (11) MOBILE: Stickpile Tunnel, MD, within 1 km, centered around NL 39-35-46; WL 78-25-41

This authorization effective July 09, 2018 and
will expire 3:00 A.M. EST October 09, 2018

**FEDERAL
COMMUNICATIONS
COMMISSION**



Station Locations

(12) MOBILE: Washington DC. Dupont Circle Tunnels,, within 1 km, centered around NL 38-54-35; WL 7-02-36

Frequency Information

MOBILE: Nashville, TN. Vanderbilt campus, within 1 km, centered around NL 36-08-38; WL 86-48-12

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5650-5925 MHz	MO	275MP0N	18.7 W (ERP)	

MOBILE: COUGAR, WA. Ape Cave., within 2 km, centered around NL 46-06-34; WL 122-12-41

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5650-5925 MHz	MO	275MP0N	18.7 W (ERP)	

MOBILE: Snoqualmie Pass, WA., within 3 km, centered around NL 47-23-42; WL 121-25-20

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5650-5925 MHz	MO	275MP0N	18.7 W (ERP)	

MOBILE: Stumphouse Tunnel, SC, within 1 km, centered around NL 34-48-39; WL 83-07-26

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5650-5925 MHz	MO	275MP0N	18.7 W (ERP)	

Frequency Information

MOBILE: Forneys Creek, NC, within 1 km, centered around NL 35-27-33; WL 83-32-17

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5650-5925 MHz	MO	275MP0N	18.7 W (ERP)	

MOBILE: Seattle, WA, within 1 km, centered around NL 47-36-01; WL 122-19-56

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5650-5925 MHz	MO	275MP0N	18.7 W (ERP)	

MOBILE: Penn State campus, PA, within 1 km, centered around NL 40-47-53; WL 77-51-36

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5650-5925 MHz	MO	275MP0N	18.7 W (ERP)	

MOBILE: Texas Tech campus, TX, within 1 km, centered around NL 33-35-10; WL 101-52-29

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5650-5925 MHz	MO	275MP0N	18.7 W (ERP)	

Frequency Information

MOBILE: Mosier Twin Tunnels, OR, within 1 km, centered around NL 45-41-03; WL 121-25-18

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5650-5925 MHz	MO	275MP0N	18.7 W (ERP)	

MOBILE: Virginia Tech campus, VA, within 1 km, centered around NL 37-13-42; WL 80-25-24

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5650-5925 MHz	MO	275MP0N	18.7 W (ERP)	

MOBILE: Stickpile Tunnel, MD, within 1 km, centered around NL 39-35-46; WL 78-25-41

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5650-5925 MHz	MO	275MP0N	18.7 W (ERP)	

MOBILE: Washington DC. Dupont Circle Tunnels,, within 1 km, centered around NL 38-54-35; WL 7-02-36

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5650-5925 MHz	MO	275MP0N	18.7 W (ERP)	

Special Conditions:

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (2) Licensee should be aware that other stations may be licensed on these frequencies and if any interference occurs, the licensee of this authorization will be subject to immediate shut down.

Special Conditions:

- (3) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by the U.S. Government; contract number W911NF-16-C-0086. The use of this radio station in any other manner or for any other purpose will constitute a violation of the privileges herein authorized. Except as subsequently authorized by the Commission, this radio station shall not be operated after the expiration date of the contract designated in the related application and enumerated above.
- (4) Camgian Microsystems Corporation should be aware that the 5850-5925 MHz band has been designated for use by surface transportation for the Dedicated Short Range Communication system. Typical radars in this band have a low pulse repetition rate (PRR), allowing the DSRC transmissions to work between radar pulses. The information provided on this radar suggests a much higher PRR and the radar may also see interference from the DSRC transmissions. If the developer would like more information on DSRC, please have them contact Mr. James Arnold, james.a.arnold@dot.gov.