

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

EXPERIMENTAL

(Nature of Service)

WF9XXU

(Call Sign)

XT MO

(Class of Station)

0200-EX-ST-2013

(File Number)

NAME ManTech Advanced Systems International, 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:

Evaluate the performance of Through the Wall Sensors in laboratory and mobile operational environments and to investigate the use of these systems in law enforcement scenarios.

Station Locations

- (1) MOBILE: 1000 Technology Dr. Fairmont WV 26554, within 1 km, centered around NL 39-25-53; WL 80-11-37
- (2) MOBILE: 3741 Morgantown Industrial Park, Morgantown, WV 26501, within 0.1 km, centered around NL 39-36-32; WL 79-58-33
- (3) MOBILE: 18000 Institution Road, Devore, California 92407, within 1 km, centered around NL 34-10-41; WL 117-23-06
- (4) MOBILE: 4600 West Ox Road Fairfax, VA 22030, within 1 km, centered around NL 38-51-16; WL 77-22-28
- (5) MOBILE: 135 Academy Drive, Dunbar, WV 25064, within 1 km, centered around NL 38-22-52; WL 81-45-29
- (6) MOBILE: County Route 83/16, Eskdale, WV 25075, within 1 km, centered around NL 38-08-06; WL 81-24-33
- (7) MOBILE: 201 North Shartel, Oklahoma City, OK 73102, within 0.5 km, centered around NL 35-28-11; WL 97-31-37
- (8) MOBILE: Stevensville, MD 21666, within 1 km, centered around NL 38-58-31; WL 76-19-44
- (9) MOBILE: 810 7th Street, NW, Washington, DC 20531, within 0.2 km, centered around NL 38-54-02; WL 77-01-20
- (10) MOBILE: 655 East Third Street, San Bernardino, CA. 92415, within 0.25 km, centered around NL 34-06-15; WL 117-16-23

This authorization effective April 24, 2013 and
will expire 3:00 A.M. EST October 24, 2013

**FEDERAL
COMMUNICATIONS
COMMISSION**



Station Locations

- (11) MOBILE: 10750 Ulmerton Road Largo, FL 33778, within 0.75 km, centered around NL 27-53-40; WL 82-47-23
- (12) MOBILE: 333 South Franklin Street, Tampa, FL, within 0.25 km, centered around NL 27-56-33; WL 82-27-22
- (13) MOBILE: 1101 Arch St, Philadelphia, PA 19107, within 0.2 km, centered around NL 39-57-17; WL 75-09-33
- (14) MOBILE: 818 Jefferson Ave, Moundsville, WV 26041, within 0.3 km, centered around NL 39-54-57; WL 80-44-32
- (15) MOBILE: 3462 Fairmont Rd, Morgantown WV 26501, within 1 km, centered around NL 39-36-07; WL 80-04-37
- (16) MOBILE: 401 Walnut Ave, Fairmont WV 26554, within 0.1 km, centered around NL 39-28-51; WL 80-08-57

Frequency Information

MOBILE: 1000 Technology Dr. Fairmont WV 26554, within 1 km, centered around NL 39-25-53; WL 80-11-37

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2436-2690 MHz	MO	N0N	38.46 nW (ERP)	
2900-3300 MHz	MO	N0N	38.46 nW (ERP)	
5250-5599 MHz	MO	N0N	42.06 mW (ERP)	
5651-5925 MHz	MO	N0N	42.06 mW (ERP)	

MOBILE: 3741 Morgantown Industrial Park, Morgantown, WV 26501, within 0.1 km, centered around NL 39-36-32; WL 79-58-33

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2436-2690 MHz	MO	N0N	38.46 nW (ERP)	

Frequency Information

MOBILE: 3741 Morgantown Industrial Park, Morgantown, WV 26501, within 0.1 km, centered around NL 39-36-32; WL 79-58-33

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2900-3300 MHz	MO	N0N	38.46 nW (ERP)	
5250-5599 MHz	MO	N0N	42.06 mW (ERP)	
5651-5925 MHz	MO	N0N	42.06 mW (ERP)	

MOBILE: 18000 Institution Road, Devore, California 92407, within 1 km, centered around NL 34-10-41; WL 117-23-06

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2436-2690 MHz	MO	N0N	38.46 nW (ERP)	
2900-3300 MHz	MO	N0N	38.46 nW (ERP)	
5250-5599 MHz	MO	N0N	42.06 mW (ERP)	
5651-5925 MHz	MO	N0N	42.06 mW (ERP)	

Frequency Information

MOBILE: 4600 West Ox Road Fairfax, VA 22030, within 1 km, centered around NL 38-51-16; WL 77-22-28

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2436-2690 MHz	MO	N0N	38.46 nW (ERP)	
2900-3300 MHz	MO	N0N	38.46 nW (ERP)	
5250-5599 MHz	MO	N0N	42.06 mW (ERP)	
5651-5925 MHz	MO	N0N	42.06 mW (ERP)	

MOBILE: 135 Academy Drive, Dunbar, WV 25064, within 1 km, centered around NL 38-22-52; WL 81-45-29

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2436-2690 MHz	MO	N0N	38.46 nW (ERP)	
2900-3300 MHz	MO	N0N	38.46 nW (ERP)	
5250-5599 MHz	MO	N0N	42.06 mW (ERP)	
5651-5925 MHz	MO	N0N	42.06 mW (ERP)	

Frequency Information

MOBILE: County Route 83/16, Eskdale, WV 25075, within 1 km, centered around NL 38-08-06; WL 81-24-33

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2436-2690 MHz	MO	N0N	38.46 nW (ERP)	
2900-3300 MHz	MO	N0N	38.46 nW (ERP)	
5250-5599 MHz	MO	N0N	42.06 mW (ERP)	
5651-5925 MHz	MO	N0N	42.06 mW (ERP)	

MOBILE: 201 North Shartel, Oklahoma City, OK 73102, within 0.5 km, centered around NL 35-28-11; WL 97-31-37

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2436-2690 MHz	MO	N0N	38.46 nW (ERP)	
2900-3300 MHz	MO	N0N	38.46 nW (ERP)	
5250-5599 MHz	MO	N0N	42.06 mW (ERP)	
5651-5925 MHz	MO	N0N	42.06 mW (ERP)	

Frequency Information

MOBILE: Stevensville, MD 21666, within 1 km, centered around NL 38-58-31; WL 76-19-44

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2436-2690 MHz	MO	N0N	38.46 nW (ERP)	
2900-3300 MHz	MO	N0N	38.46 nW (ERP)	
5250-5599 MHz	MO	N0N	42.06 mW (ERP)	
5651-5925 MHz	MO	N0N	42.06 mW (ERP)	

MOBILE: 810 7th Street, NW, Washington, DC 20531, within 0.2 km, centered around NL 38-54-02; WL 77-01-20

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2436-2690 MHz	MO	N0N	38.46 nW (ERP)	
2900-3300 MHz	MO	N0N	38.46 nW (ERP)	
5250-5599 MHz	MO	N0N	42.06 mW (ERP)	
5651-5925 MHz	MO	N0N	42.06 mW (ERP)	

Frequency Information

MOBILE: 655 East Third Street, San Bernardino, CA. 92415, within 0.25 km, centered around NL 34-06-15; WL 117-16-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2436-2690 MHz	MO	N0N	38.46 nW (ERP)	
2900-3300 MHz	MO	N0N	38.46 nW (ERP)	
5250-5599 MHz	MO	N0N	42.06 mW (ERP)	
5651-5925 MHz	MO	N0N	42.06 mW (ERP)	

MOBILE: 10750 Ulmerton Road Largo, FL 33778, within 0.75 km, centered around NL 27-53-40; WL 82-47-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2436-2690 MHz	MO	N0N	38.46 nW (ERP)	
2900-3300 MHz	MO	N0N	38.46 nW (ERP)	
5250-5599 MHz	MO	N0N	42.06 mW (ERP)	
5651-5925 MHz	MO	N0N	42.06 mW (ERP)	

Frequency Information

MOBILE: 333 South Franklin Street, Tampa, FL, within 0.25 km, centered around NL 27-56-33; WL 82-27-22

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2436-2690 MHz	MO	N0N	38.46 nW (ERP)	
2900-3300 MHz	MO	N0N	38.46 nW (ERP)	
5250-5599 MHz	MO	N0N	42.06 mW (ERP)	
5651-5925 MHz	MO	N0N	42.06 mW (ERP)	

MOBILE: 1101 Arch St, Philadelphia, PA 19107, within 0.2 km, centered around NL 39-57-17; WL 75-09-33

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2436-2690 MHz	MO	N0N	38.46 nW (ERP)	
2900-3300 MHz	MO	N0N	38.46 nW (ERP)	
5250-5599 MHz	MO	N0N	42.06 mW (ERP)	
5651-5925 MHz	MO	N0N	42.06 mW (ERP)	

Frequency Information

MOBILE: 818 Jefferson Ave, Moundsville, WV 26041, within 0.3 km, centered around NL 39-54-57; WL 80-44-32

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2436-2690 MHz	MO	N0N	38.46 nW (ERP)	
2900-3300 MHz	MO	N0N	38.46 nW (ERP)	
5250-5599 MHz	MO	N0N	42.06 mW (ERP)	
5651-5925 MHz	MO	N0N	42.06 mW (ERP)	

MOBILE: 3462 Fairmont Rd, Morgantown WV 26501, within 1 km, centered around NL 39-36-07; WL 80-04-37

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2436-2690 MHz	MO	N0N	38.46 nW (ERP)	
2900-3300 MHz	MO	N0N	38.46 nW (ERP)	
5250-5599 MHz	MO	N0N	42.06 mW (ERP)	
5651-5925 MHz	MO	N0N	42.06 mW (ERP)	

Frequency Information

MOBILE: 401 Walnut Ave, Fairmont WV 26554, within 0.1 km, centered around NL 39-28-51; WL 80-08-57

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2436-2690 MHz	MO	N0N	38.46 nW (ERP)	
2900-3300 MHz	MO	N0N	38.46 nW (ERP)	
5250-5599 MHz	MO	N0N	42.06 mW (ERP)	
5651-5925 MHz	MO	N0N	42.06 mW (ERP)	

Special Conditions:

- (1) Operation requires consent of affected Educational Broadband Service/Broadband Radio Service (EBS/BRS) licensees.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) 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.
- (4) NTIA authorizes the testing and law enforcement demonstrations in the following bands only:
 - a. 2436 – 2690 MHz
 - b. 2900 – 3300 MHz
 - c. 5250 – 5599 MHz
 - d. 5651 – 5925 MHz