

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

EXPERIMENTAL

(Nature of Service)

WM9XAF

(Call Sign)

XT FX MO

(Class of Station)

1392-EX-ST-2017

(File Number)

NAME Alion Science and Technology

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:

Propagation measurements is to validate an hybrid model that uses the forest, TIREM, and urban models to predict clutter loss in an environment.

Station Locations

- (1) Baltimore (BALTIMORE), MD - NL 39-17-24; WL 76-36-43; MOBILE:within 80.46 km, centered around NL 39-17-24; WL 76-36-43
- (2) San Francisco (SAN FRANCISCO), CA - NL 37-46-30; WL 122-25-09; MOBILE:within 80.46 km, centered around NL 37-46-30; WL 122-25-09
- (3) Denver (DENVER), CO - NL 39-44-21; WL 104-59-21; MOBILE:within 80.46 km, centered around NL 39-44-21; WL 104-59-21
- (4) Chicago (COOK), IL - NL 41-52-42; WL 87-37-47; MOBILE:within 80.46 km, centered around NL 41-52-42; WL 87-37-47

Frequency Information

Baltimore (BALTIMORE), MD - NL 39-17-24; WL 76-36-43; MOBILE:within 80.46 km, centered around NL 39-17-24; WL 76-3

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1755-1780 MHz	MO	2K00N0N	50 W (ERP)	0.05 %

This authorization effective December 05, 2017 and
will expire 3:00 A.M. EST May 01, 2018

**FEDERAL
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COMMISSION**



Frequency Information

San Francisco (SAN FRANCISCO), CA - NL 37-46-30; WL 122-25-09; MOBILE:within 80.46 km, centered around NL 37-46-3

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1755-1780 MHz	MO	2K00N0N	50 W (ERP)	0.05 %

Denver (DENVER), CO - NL 39-44-21; WL 104-59-21; MOBILE:within 80.46 km, centered around NL 39-44-21; WL 104-59-21

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1755-1780 MHz	MO	2K00N0N	50 W (ERP)	0.05 %

Chicago (COOK), IL - NL 41-52-42; WL 87-37-47; MOBILE:within 80.46 km, centered around NL 41-52-42; WL 87-37-47

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1755-1780 MHz	MO	2K00N0N	50 W (ERP)	0.05 %

Special Conditions:

- (1) Operation in the 1695-1780 MHz, 1915-1920 MHz, 1995-2020 MHz or 2110-2200 MHz band requires consent of local Advanced Wireless Service (AWS) licensee(s) to avoid interference.
- (2) Alion Science and Technology must notch out the following frequencies at the following locations:

Denver, CO	1760 MHz	(+/- 2.5 MHz)
San Francisco, CA	1756.5 MHz	(+/- 2.5 MHz)
	1760 MHz	(+/- 2.5 MHz)
	1763 MHz	(+/- 2.5 MHz)
	1779 MHz	(+/- 2.5 MHz)
- (3) Alion Science and Technology must provide a Stop Buzzer POC.
- (4) Alion Science and Technology must contact the Department of Interior AWS-3 PM, John Whitlowe at (571) 594-6750, for a conference call with USGS Network Engineers prior to each test.

Special Conditions:

- (5) Alion Science and Technology must also contact the Western Area Frequency Coordinator (WAFC) at Jamie.Heaton@navy.mil, or 760-939-6832 prior to operations.
- (6) This authorization SUPERSEDES the previously issued authorization with the same call sign and file number: adds Special Conditions 2-5.