

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

EXPERIMENTAL

(Nature of Service)

XT FX MO

(Class of Station)

WS9XAK

(Call Sign)

0384-EX-ST-2021

(File Number)

NAME The MITRE 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:

Development of a mobile beacon to improve existing radar systems performance. Operational system (Relocatable Over-the-Horizon Radar, ROTHr) has its own frequency authorization.

Station Locations

- (1) MOBILE: US, Rectangular area defined *ARB,33N39N075W081W (see exhibit)
- (2) Duck Key, FL - NL 24-47-22; WL 80-53-18; MOBILE: Duck Key, FL, within 100 km, centered around NL 24-47-22; WL 80-53-18

Frequency Information

MOBILE: US, Rectangular area defined *ARB,33N39N075W081W (see exhibit)

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3155-3400 kHz	MO	3K00N0N 10K0Q3N 10K0G3N 17K0G3N 17K0Q3N	20 W (ERP)	
4000-4063 kHz	MO	3K00N0N	20 W (ERP)	

This authorization effective May 15, 2021 and
will expire 3:00 A.M. EST October 01, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: US, Rectangular area defined *ARB,33N39N075W081W (see exhibit)

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4000-4063 kHz	MO	10K0G3N	20 W (ERP)	
		17K0G3N		
		10K0Q3N		
		17K0Q3N		
4438-4650 kHz	MO	3K00N0N	20 W (ERP)	
		10K0G3N		
		17K0G3N		
		10K0Q3N		
		17K0Q3N		
4750-4995 kHz	MO	3K00N0N	20 W (ERP)	
		10K0Q3N		
		17K0Q3N		
		10K0G3N		
		17K0G3N		
5730-5900 kHz	MO	3K00N0N	20 W (ERP)	
		10K0G3N		
		17K0G3N		
		10K0Q3N		
		17K0Q3N		
6765-7000 kHz	MO	3K00N0N	20 W (ERP)	
		10K0G3N		
		17K0G3N		
		10K0Q3N		
		17K0Q3N		

Frequency Information

MOBILE: US, Rectangular area defined *ARB,33N39N075W081W (see exhibit)

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
7450-8195 kHz	MO	3K00N0N 10K0G3N 17K0G3N 10K0Q3N 17K0Q3N	20 W (ERP)	
10150-11600 kHz	MO	3K00N0N 10K0G3N 17K0G3N 10K0Q3N 17K0Q3N	20 W (ERP)	
13410-13570 kHz	MO	3K00N0N 10K0G3N 17K0G3N 10K0Q3N 17K0Q3N	20 W (ERP)	
13870-14000 kHz	MO	3K00N0N 10K0Q3N 17K0Q3N 10K0G3N 17K0G3N	20 W (ERP)	
14350-14990 kHz	MO	3K00N0N 10K0G3N 17K0G3N 10K0Q3N	20 W (ERP)	

Frequency Information

MOBILE: US, Rectangular area defined *ARB,33N39N075W081W (see exhibit)

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14350-14990 kHz	MO	17K0Q3N	20 W (ERP)	
15800-16360 kHz	MO	3K00N0N 10K0G3N 17K0G3N 10K0Q3N 17K0Q3N	20 W (ERP)	
17410-17480 kHz	MO	3K00N0N 10K0G3N 17K0G3N 10K0Q3N 17K0Q3N	20 W (ERP)	
18030-18068 kHz	MO	3K00N0N 10K0G3N 17K0G3N 10K0Q3N 17K0Q3N	20 W (ERP)	
18168-18780 kHz	MO	3K00N0N 10K0G3N 17K0G3N 10K0Q3N 17K0Q3N	20 W (ERP)	
21850-21924 kHz	MO	3K00N0N 10K0G3N 17K0G3N	20 W (ERP)	

Frequency Information

MOBILE: US, Rectangular area defined *ARB,33N39N075W081W (see exhibit)

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
21850-21924 kHz	MO	10K0Q3N 17K0Q3N	20 W (ERP)	
23000-23200 kHz	MO	3K00N0N 10K0G3N 17K0G3N 10K0Q3N 17K0Q3N	20 W (ERP)	
25330-25550 kHz	MO	3K00N0N 10K0G3N 17K0G3N 10K0Q3N 17K0Q3N	20 W (ERP)	

Duck Key, FL - NL 24-47-22; WL 80-53-18; MOBILE: Duck Key, FL, within 100 km, centered around NL 24-47-22; WL 80-53-1

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3155-3400 kHz	FX	3K00N0N 10K0G3N 17K0G3N 10K0Q3N 17K0Q3N	20 W (ERP)	
4000-4063 kHz	FX	3K00N0N 10K0G3N 17K0G3N 10K0Q3N	20 W (ERP)	

Frequency Information

Duck Key, FL - NL 24-47-22; WL 80-53-18; MOBILE: Duck Key, FL, within 100 km, centered around NL 24-47-22; WL 80-53-1

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4000-4063 kHz	FX	17K0Q3N	20 W (ERP)	
4438-4650 kHz	FX	3K00N0N 10K0G3N 17K0G3N 10K0Q3N 17K0Q3N	20 W (ERP)	
4750-4995 kHz	FX	3K00N0N 17K0Q3N 17K0G3N 10K0Q3N 10K0G3N	20 W (ERP)	
5730-5900 kHz	FX	3K00N0N 10K0G3N 17K0G3N 10K0Q3N 17K0Q3N	20 W (ERP)	
6765-7000 kHz	FX	3K00N0N 17K0G3N 10K0G3N 10K0Q3N 17M0Q3N	20 W (ERP)	
7450-8195 kHz	FX	3K00N0N 10K0G3N 17K0G3N	20 W (ERP)	

Frequency Information

Duck Key, FL - NL 24-47-22; WL 80-53-18; MOBILE: Duck Key, FL, within 100 km, centered around NL 24-47-22; WL 80-53-1

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
7450-8195 kHz	FX	10K0Q3N 17K0Q3N	20 W (ERP)	
10150-11600 kHz	FX	3K00N0N 10K0G3N 17K0G3N 10K0Q3N 17K0Q3N	20 W (ERP)	
13410-13570 kHz	FX	3K00N0N 10K0G3N 17K0G3N 10K0Q3N 17K0Q3N	20 W (ERP)	
13870-14000 kHz	FX	3K00N0N 10K0G3N 17K0G3N 17K0Q3N 10K0Q3N	20 W (ERP)	
14350-14990 kHz	FX	3K00N0N 10K0G3N 17K0G3N 10K0Q3N 17K0Q3N	20 W (ERP)	
15800-16360 kHz	FX	10K0G3N 17K0Q3N	20 W (ERP)	

Frequency Information

Duck Key, FL - NL 24-47-22; WL 80-53-18; MOBILE: Duck Key, FL, within 100 km, centered around NL 24-47-22; WL 80-53-1

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
15800-16360 kHz	FX	17K0G3N 10K0Q3N 3K00N0N	20 W (ERP)	
17410-17480 kHz	FX	3K00N0N 10K0G3N 17K0G3N 10K0Q3N 17K0Q3N	20 W (ERP)	
18030-18068 kHz	FX	3K00N0N 10K0G3N 17K0G3N 10K0Q3N 17K0Q3N	20 W (ERP)	
18168-18780 kHz	FX	3K00N0N 10K0G3N 17K0G3N 10K0Q3N 17K0Q3N	20 W (ERP)	
20010-21000 kHz	FX	3K00N0N 10K0G3N 17K0G3N 10K0Q3N 17K0Q3N	20 W (ERP)	
21850-21924 kHz	FX	3K00N0N	20 W (ERP)	

Frequency Information

Duck Key, FL - NL 24-47-22; WL 80-53-18; MOBILE: Duck Key, FL, within 100 km, centered around NL 24-47-22; WL 80-53-1

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
21850-21924 kHz	FX	10K0G3N 17K0G3N 10K0Q3N 17K0Q3N	20 W (ERP)	
23000-23200 kHz	FX	3K00N0N 10K0G3N 17K0G3N 10K0Q3N 17K0Q3N	20 W (ERP)	
25330-25550 kHz	FX	3K00N0N 10K0G3N 17K0G3N 10K0Q3N 17K0Q3N	20 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.
- (3) Operation is not permitted on the following bands:
5900-6200KHz
7200-7450KHz
9400-9900KHz
11600-12100KHz
13570-13870KHz
15100-15800KHz
17480-17900KHz
18900-19020KHz
21450-21850KHz
25670-26100KHz,

Special Conditions:

- (4) All operations within the rectangular area defined *ARB,33N39N075W081W must be precoordinated with and receive approval from the National Radio Quiet Zone coordinator: Paulette Woody, pwoody@nrao.edu or nrqz@gb.nrao.edu
- (5) Coordination with the MIDLANTAFC office is required prior to operations and a STOP BUZZER POC shall be identified (name, cell number). Head, Middle Atlantic Area Frequency Coordination Office (MIDLANTAFC), Naval Air Warfare Center Aircraft Division (NAWCAD), 23013 Cedar Point Road, BLDG 2118, Patuxent River, MD 20670, midlantaafc_paxriver@navy.mil.
- (6) The MITRE Corporation for must notch out the following:
 - a. 3235 kHz
 - b. 3217.5 kHz
 - c. 3248.5 kHz
 - d. 3251.5 kHz
 - e. 5750 kHz
 - f. 5750 kHz
 - g. 6904 kHz
 - h. 6904 kHz
 - i. 6904 kHz
 - j. 6904 kHz
 - k. 6904 kHz
 - l. 8060 kHz
 - m. 8060 kHz
 - n. 10735 kHz
 - o. 10735 kHz
 - p. 10735 kHz
 - q. 11170 kHz
 - r. 11275-11400 kHz
 - s. 16285 kHz
 - t. 16285 kHz
 - u. 16285 kHz
 - v. 18250 kHz
 - w. 18250 kHz
- (7) Further requests for extension of the authority granted herein must be filed on Form 442, "Application for New or Modified Radio Station Authorization under Part 5 of FCC Rules - Experimental Radio Service." Future STA requests to extend this authorization will not be considered.