

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

EXPERIMENTAL

(Nature of Service)

XT FX

(Class of Station)

WO9XIO

(Call Sign)

0537-EX-ST-2019

(File Number)

NAME KEYW Corp

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:

To collect radar data to validate operation.

Station Locations

(1) Severn (ANNE ARUNDEL), MD - NL 39-09-06; WL 76-41-01

Frequency Information

Severn (ANNE ARUNDEL), MD - NL 39-09-06; WL 76-41-01

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2.9-3.55 GHz	FX	0G65MXN	5.3 kW (ERP)	
3.65-3.8 GHz	FX	0G15MXN	5.3 kW (ERP)	
8.45-9 GHz	FX	0G55MXN 0G55MXN	12 kW (ERP)	

This authorization effective May 15, 2019 and
will expire 3:00 A.M. EST November 16, 2019

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Severn (ANNE ARUNDEL), MD - NL 39-09-06; WL 76-41-01

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9.2-10.68 GHz	FX	1G48MXN 1G48MXN	12 kW (ERP)	
10.7-12 GHz	FX	1G30MXN 1G30MXN	12 kW (ERP)	

Special Conditions:

- (1) 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.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) Licensee must avoid pointing the transmitting antenna within 15 degrees of any point on the geostationary orbit arc while transmitting signals in the 3600-3800 MHz and 10.7-12.0 GHz bands.
- (4) Licensee must ensure that the transmitting antenna(s) main beam do not point above the horizon in order to protect satellite space stations operating in overlapping frequency bands.
- (5) Maintain operation separation from the grandfathered earth stations as defined in Part 90, Subpart Z, or coordinate an agreement with the grandfathered earth station licensees prior to operation in 3650-3700 MHz band.
- (6) Consult the ULS database to ensure that the operation will not cause harmful interference to any existing registered stations in the 3650-3700 MHz band, and notify the registered users in the proposed geographic areas.
- (7) OPERATION IN THE 8025-8400 MHz IS NOT AUTHORIZED
- (8) Operations in the 10.70-10.95 GHz (space-to-Earth) and 11.20-11.45 GHz (space-to-Earth), bands must be on a non-harmful interference and unprotected basis to authorized stations that are in compliance with the applicable requirements of Appendix 30B of the ITU Radio Regulations.
- (9) The stop buzzer contact for this project is Nathan Binkley
Phone: 937-702-9519
Email: nbinkley@keywcorp.com
- (10) The authorized station must be in compliance with environmental requirement set forth in Section 1.1307 of the Commission's Rules.
- (11) Licensee must successfully secure consents from the Educational Broadband Service and the Broadband Radio Service licensees prior to operation in 2600-2690 MHz range.

Special Conditions:

- (12) Coordination with the Fixed Microwave Service licensees in accordance with 47 CFR, Part 101.103(d) prior to operation in 3700-3800 MHz, 10.55-10.68 GHz and 10.7-11.7 GHz bands.
- (13) 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.
- (14) OPERATIONS ARE LIMITED TO GROUND BASED ONLY.
- (15) For operations within the bands 2700 – 2900 MHz and 9000 – 9200 MHz, coordinate directly with FAA FAS Representative, Mr. Rodney Murphy. Mr. Murphy may be reached via e-mail at rodney.murphy@faa.gov or phone 202-267-9501.
- (16) KeyW Corp must notch out the following:
 - a. 7812 MHz (+/- 15 MHz)
 - b. 8220 MHz (+/- 60 MHz)
 - c. 2950 MHz (+/- 2.5 MHz)