

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
RADIO STATION CONSTRUCTION PERMIT
AND LICENSE**

EXPERIMENTAL

(Nature of Service)

XC FX

(Class of Station)

WK2XNU

(Call Sign)

0834-EX-CN-2019

(File Number)

NAME KEYW Corp

Subject to the provisions of the Communications Act of 1934, subsequent acts, and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions and requirements set forth in this license, the licensee hereof is hereby authorized to use and operate the radio transmitting facilities hereinafter described for radio communications in accordance with the program of experimentation described by the licensee in its application for license.

Operation: In accordance with Sec. 5.3(c) of the Commission's Rules

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)	
8.45-9 GHz	FX	0G55MXN 0G55MXN	12 kW (ERP)	

This authorization effective February 28, 2020 and
will expire 3:00 A.M. EST November 01, 2020

**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) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (4) 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.
- (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) 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.
- (8) The stop buzzer contact for this project is Nathan Binkley
Phone: 937-702-9519
Email: nbinkley@keywcorp.com
- (9) The authorized station must be in compliance with environmental requirement set forth in Section 1.1307 of the Commission's Rules.
- (10) 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.
- (11) OPERATIONS ARE LIMITED TO GROUND BASED ONLY.

Special Conditions:

- (12) 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 FA8604-15-D-7977. 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.