

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

EXPERIMENTAL

(Nature of Service)

XC MO

(Class of Station)

WK2XIS

(Call Sign)

0461-EX-CN-2019

(File Number)

NAME Vesperix Corporation

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(h) of the Commission's Rules

Station Locations

(1) MOBILE: Sanford, NC, within 5 km, centered around NL 35-28-48; WL 79-15-36

Frequency Information

MOBILE: Sanford, NC, within 5 km, centered around NL 35-28-48; WL 79-15-36

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
25.8-37 kHz	MO	236HG1D	1.4 kW (ERP)	0.004 %
33.6-36.8 kHz	MO	472HG1D	1.4 kW (ERP)	0.004 %
38-39.5 kHz	MO	236HG1D	1.3 kW (ERP)	0.004 %
38.2-39.2 kHz	MO	472HG1D	1.3 kW (ERP)	0.004 %

This authorization effective August 01, 2019 and
will expire 3:00 A.M. EST August 01, 2020

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
41.2-45.4 kHz	MO	236HG1D	1.2 kW (ERP)	0.004 %
41.6-45.2 kHz	MO	472HG1D	1.2 kW (ERP)	0.004 %
42.4-44.4 kHz	MO	944HG1D	1.3 kW (ERP)	0.004 %
46.4-48.5 kHz	MO	236HG1D	1.1 kW (ERP)	0.004 %
46.6-48.2 kHz	MO	472HG1D	1.1 kW (ERP)	0.004 %
47.2-47.6 kHz	MO	399HG1D	1.1 kW (ERP)	0.004 %
49.5-56.9 kHz	MO	236HG1D	1 kW (ERP)	0.004 %
49.8-56.6 kHz	MO	472HG1D	1 kW (ERP)	0.004 %
50.4-56 kHz	MO	944HG1D	900 W (ERP)	0.004 %
52.8-55.2 kHz	MO	1K88G1D	1.1 kW (ERP)	0.004 %

Frequency Information

MOBILE: Sanford, NC, within 5 km, centered around NL 35-28-48; WL 79-15-36

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
57.9-59 kHz	MO	236HG1D	1 kW (ERP)	0.004 %
58.2-59 kHz	MO	472HG1D	900 W (ERP)	0.004 %

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 using the frequency band 59 -61 kHz.
- (4) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by USAF, FA8650-15-C-7530. 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.
- (5) The designated point of contact to terminate the systems if interference occurs is Jeff Buente at 609-571-8670