

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

EXPERIMENTAL

(Nature of Service)

WF2XNH

(Call Sign)

XE FX MO

(Class of Station)

0201-EX-CM-2019

(File Number)

NAME Sensus Spectrum LLC

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 & j) of the Commission's Rules

Station Locations

- (1) Covington (ST TAMMANY), LA - NL 30-26-38; WL 90-05-21; MOBILE: Covington, LA, within 24 km, centered around NL 30-26-38; WL 90-05-21
- (2) Uniontown (FAYETTE), PA - NL 39-54-41; WL 79-42-38; MOBILE: , within 1 km, centered around NL 39-54-41; WL 79-42-38
- (3) Goleta, CA - NL 34-26-03; WL 119-51-53; MOBILE: Goleta, CA, within 1 km, centered around NL 34-26-03; WL 119-51-53
- (4) Forest Hills, PA - NL 40-25-55; WL 79-51-49; MOBILE: Forest Hills, PA, within 1 km, centered around NL 40-25-55; WL 79-51-49
- (5) Boise, ID - NL 43-36-34; WL 116-18-31; MOBILE: Boise, ID, within 1 km, centered around NL 43-36-34; WL 116-18-31
- (6) Durham, NC - NL 35-52-02; WL 78-51-41; MOBILE: Durham, NC, within 1 km, centered around NL 35-52-02; WL 78-51-41
- (7) Soddy Daisy (HAMILTON), TN - NL 35-13-03; WL 85-12-54; MOBILE: Soddy Daisy (HAMILTON), TN, within 1 km, centered around NL 35-13-03; WL 85-12-54
- (8) Plano (COLLIN), TX - NL 33-00-21; WL 96-39-54; MOBILE: Plano (COLLIN), Texas, within 1 km, centered around NL 33-00-21; WL 96-39-54
- (9) Raleigh (WAKE), NC - NL 35-53-49; WL 78-39-07; MOBILE: Indoor Lab Testing, within 1 km, centered around NL 35-53-49; WL 78-39-07
- (10) DuBois (CLEARFIELD), PA - NL 41-07-35; WL 78-45-23; MOBILE: , within 1 km, centered around NL 41-07-35; WL 78-45-23
- (11) Morrisville (WAKE), NC - NL 35-51-09; WL 78-49-18; MOBILE: , within 1 km, centered around NL 35-51-09; WL 78-49-18

This authorization effective September 25, 2019 and
will expire 3:00 A.M. EST July 01, 2024

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Covington (ST TAMMANY), LA - NL 30-26-38; WL 90-05-21; MOBILE: Covington, LA, within 24 km, centered around NL 30-2

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
410-430 MHz	FX	4K81FXD	50 W (ERP)	

Uniontown (FAYETTE), PA - NL 39-54-41; WL 79-42-38; MOBILE: , within 1 km, centered around NL 39-54-41; WL 79-42-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
410-430 MHz	FX	4K81FXD	50 W (ERP)	

Goleta, CA - NL 34-26-03; WL 119-51-53; MOBILE: Goleta, CA, within 1 km, centered around NL 34-26-03; WL 119-51-53

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
410-413.1 MHz	FX	4K81FXD	50 W (ERP)	
413.1-430 MHz	FX	4K81FXD	50 W (ERP)	

Forest Hills, PA - NL 40-25-55; WL 79-51-49; MOBILE: Forest Hills, PA, within 1 km, centered around NL 40-25-55; WL 79-51

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
410-430 MHz	FX	4K81FXD	50 W (ERP)	

Frequency Information

Boise, ID - NL 43-36-34; WL 116-18-31; MOBILE: Boise, ID, within 1 km, centered around NL 43-36-34; WL 116-18-31

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
410-430 MHz	FX	4K81FXD	50 W (ERP)	

Durham, NC - NL 35-52-02; WL 78-51-41; MOBILE: Durham, NC, within 1 km, centered around NL 35-52-02; WL 78-51-41

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
410-430 MHz	FX	4K81FXD	50 W (ERP)	

Soddy Daisy (HAMILTON), TN - NL 35-13-03; WL 85-12-54; MOBILE: Soddy Daisy (HAMILTON), TN, within 1 km, centered around NL 35-13-03; WL 85-12-54

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
420-430 MHz	FX	4K81FXD	35 W (ERP)	

Plano (COLLIN), TX - NL 33-00-21; WL 96-39-54; MOBILE: Plano (COLLIN), Texas, within 1 km, centered around NL 33-00-21; WL 96-39-54

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
420-430 MHz	FX	4K81FXD	35 W (ERP)	

Frequency Information

Raleigh (WAKE), NC - NL 35-53-49; WL 78-39-07; MOBILE: Indoor Lab Testing, within 1 km, centered around NL 35-53-49; V

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
420-430 MHz	FX	4K81FXD	35 W (ERP)	

DuBois (CLEARFIELD), PA - NL 41-07-35; WL 78-45-23; MOBILE: , within 1 km, centered around NL 41-07-35; WL 78-45-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
410-410.2875 MHz	FX	4K81FXD	50 W (ERP)	
410.3125-419.0125 MHz	FX	4K81FXD	50 W (ERP)	
419.0375-430 MHz	FX	4K81FXD	50 W (ERP)	

Morrisville (WAKE), NC - NL 35-51-09; WL 78-49-18; MOBILE: , within 1 km, centered around NL 35-51-09; WL 78-49-18

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
413-413.0125 MHz	FX	4K81FXD	50 W (ERP)	
413.0375-415 MHz	FX	4K81FXD	50 W (ERP)	
415.0125-430 MHz	FX	4K81FXD	50 W (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) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (3) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (4) Operation is subject to the understanding that equipment will not be developed for operational use in this band.
- (5) The designated point-of-contact to terminate transmissions if interference occurs is Mr. Stanton B. Woodcock at 703-635-4770.
- (6) Operation is NOT permitted on the frequency band 410-420 MHz in the Raleigh, NC area due to cause harmful interference to federal operations.