

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

EXPERIMENTAL

(Nature of Service)

WK2XBD

(Call Sign)

XD MO

(Class of Station)

0867-EX-CN-2018

(File Number)

NAME Wireless Seismic, Inc.

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(j) of the Commission's Rules

Station Locations

- (1) MOBILE: Office Building and/or Adjacent Field, within 5 km, centered around NL 29-37-53; WL 95-35-30
- (2) MOBILE: Office Building and/or Adjacent Field, within 1 km, centered around NL 39-58-04; WL 105-10-07
- (3) MOBILE: George Bush Park, within 2 km, centered around NL 29-43-58; WL 95-41-57
- (4) MOBILE: George Bush Park, within 2 km, centered around NL 29-43-58; WL 95-41-57
- (5) MOBILE: Cullinan Park, within 2 km, centered around NL 29-37-51; WL 95-40-02
- (6) MOBILE: Office Building and/or Adjacent Field, within 5 km, centered around NL 29-37-53; WL 95-35-30
- (7) MOBILE: Office Building and/or Adjacent Field, within 1 km, centered around NL 39-58-04; WL 105-10-07
- (8) MOBILE: Cullinan Park, within 2 km, centered around NL 29-37-51; WL 95-40-02

Frequency Information

MOBILE: Office Building and/or Adjacent Field, within 5 km, centered around NL 29-37-53; WL 95-35-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
433.05-434.79 MHz	MO	500KF1D	9 mW (ERP)	0.001 %

This authorization effective May 14, 2019 and
will expire 3:00 A.M. EST May 01, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Office Building and/or Adjacent Field, within 5 km, centered around NL 29-37-53; WL 95-35-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
433.05-434.79 MHz	MO	500KF1D	2 mW (ERP)	0.001 %
862-890 MHz	MO	500KF1D	7 mW (ERP)	0.001 %
862-890 MHz	MO	500KF1D	10 mW (ERP)	0.001 %
902-928 MHz	MO	500KF1D	266 mW (ERP)	0.001 %
902-928 MHz	MO	500KF1D	313 mW (ERP)	0.001 %
2400-2483.5 MHz	MO	2M00F1D	1.217 W (ERP)	0.0001 %
2400-2483.5 MHz	MO	2M00F1D	2.164 W (ERP)	0.0001 %
2400-2483.5 MHz	MO	2M00F1D	1.928 W (ERP)	0.0001 %
2400-2483.5 MHz	MO	2M00F1D	786 mW (ERP)	0.001 %

Frequency Information

MOBILE: Office Building and/or Adjacent Field, within 1 km, centered around NL 39-58-04; WL 105-10-07

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
433.05-434.79 MHz	MO	500KF1D	9 mW (ERP)	0.001 %
433.05-434.79 MHz	MO	500KF1D	2 mW (ERP)	0.001 %
862-890 MHz	MO	500KF1D	10 mW (ERP)	0.001 %
862-890 MHz	MO	500KF1D	7 mW (ERP)	0.001 %
902-928 MHz	MO	500KF1D	266 mW (ERP)	0.001 %
902-928 MHz	MO	500KF1D	313 mW (ERP)	0.001 %
2400-2483.5 MHz	MO	2M00F1D	2.217 W (ERP)	0.0001 %
2400-2483.5 MHz	MO	2M00F1D	2.164 W (ERP)	0.0001 %
2400-2483.5 MHz	MO	2M00F1D	1.928 W (ERP)	0.0001 %
2400-2483.5 MHz	MO	2M00F1D	786 mW (ERP)	0.001 %

Frequency Information

MOBILE: George Bush Park, within 2 km, centered around NL 29-43-58; WL 95-41-57

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
433.05-434.79 MHz	MO	500KF1D	9 mW (ERP)	0.001 %
433.05-434.79 MHz	MO	500KF1D	2 mW (ERP)	0.001 %
862-890 MHz	MO	500KF1D	7 mW (ERP)	0.001 %
862-890 MHz	MO	500KF1D	10 mW (ERP)	0.001 %
902-928 MHz	MO	500KF1D	266 mW (ERP)	0.001 %
902-928 MHz	MO	500KF1D	313 mW (ERP)	0.001 %
2400-2483.5 MHz	MO	2M00F1D	786 mW (ERP)	0.001 %

MOBILE: George Bush Park, within 2 km, centered around NL 29-43-58; WL 95-41-57

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5725-5875 MHz	MO	20M0K1D	4.218 W (ERP)	0.0001 %

Frequency Information

MOBILE: Cullinan Park, within 2 km, centered around NL 29-37-51; WL 95-40-02

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
433.05-434.79 MHz	MO	500KF1D	9 mW (ERP)	0.001 %
433.05-434.79 MHz	MO	500KF1D	2 mW (ERP)	0.001 %
862-890 MHz	MO	500KF1D	7 mW (ERP)	0.001 %
862-890 MHz	MO	500KF1D	10 mW (ERP)	0.001 %
902-928 MHz	MO	500KF1D	266 mW (ERP)	0.001 %
902-928 MHz	MO	500KF1D	313 mW (ERP)	0.001 %
2400-2483.5 MHz	MO	2M00F1D	786 mW (ERP)	0.001 %

MOBILE: Office Building and/or Adjacent Field, within 5 km, centered around NL 29-37-53; WL 95-35-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5725-5875 MHz	MO	20M0K1D	4.218 W (ERP)	0.001 %

Frequency Information

MOBILE: Office Building and/or Adjacent Field, within 1 km, centered around NL 39-58-04; WL 105-10-07

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5725-5875 MHz	MO	20M0K1D	4.218 W (ERP)	0.001 %

MOBILE: Cullinan Park, within 2 km, centered around NL 29-37-51; WL 95-40-02

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5725-5875 MHz	MO	20M0K1D	4.218 W (ERP)	0.001 %

Special Conditions:

- (1) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (2) All customers participating in the experiment shall be informed that this operation is for experimental purposes only and can be cancelled at any time.
- (3) 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.
- (4) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (5) Operation is subject to prior coordination with the local Society of Broadcast Engineers, Inc. (SBE) frequency coordinator. Consult the list at https://www.sbe.org/sections/freq_local.php to find the appropriate coordinator.
- (6) Prior to equipment authorization or a determination of compliance, the device must be accompanied by a conspicuous notice worded as follows: "This device has not been authorized as required by the rules of the Federal Communications Commission. This device is not, and may not be, offered for sale or lease, or sold or leased, until authorization is obtained."
- (7) Operation is subject to prior coordination with affected existing Fixed Microwave Service licensees in accordance with 47 CFR, Part 101.103(d).
- (8) Wireless Seismic, Inc will retrieve the devices after the completion of the test.
- (9) Prior to commencing any operations in the frequencies below, the applicant must obtain consent from the following within 50 miles of the contours of the testing area:
 - > SMR licensees (809-824 MHz/854-869 MHz)
 - > B/ILT licensees (809-824 MHz/854-869 MHz)
 - > Cellular licensees (824-849 MHz/869-894 MHz)
 - > Location & Monitoring Service licensees (902-928 MHz)

Special Conditions:

- (10) The designated point-of-contact to terminate transmissions if interference occurs is
BANDELE ADEPOJU 832-532-5080 x5052
compliancegroup@wirelesseismic.com