

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

EXPERIMENTAL

(Nature of Service)

XC MO

(Class of Station)

WK2XRQ

(Call Sign)

0032-EX-CN-2020

(File Number)

NAME Shared Spectrum Company

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) MOBILE: Vienna, VA: Airborne 328 ft. AGL, within 10 km, centered around NL 38-55-33; WL 77-14-42
- (2) MOBILE: Taylorsville, KY: Airborne 328 ft. AGL, within 10 km, centered around NL 38-02-44; WL 85-17-38
- (3) MOBILE: Ooltewah, TN: Airborne 328 ft. AGL, within 10 km, centered around NL 35-03-19; WL 85-05-12

Frequency Information

MOBILE: Vienna, VA: Airborne 328 ft. AGL, within 10 km, centered around NL 38-55-33; WL 77-14-42

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
450-470 MHz	MO	400KF1D	2 W (ERP)	0.0001 %

This authorization effective January 21, 2020 and
will expire 3:00 A.M. EST February 01, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Taylorsville, KY: Airborne 328 ft. AGL, within 10 km, centered around NL 38-02-44; WL 85-17-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
450-470 MHz	MO	400KF1D	2 W (ERP)	0.0001 %

MOBILE: Ooltewah, TN: Airborne 328 ft. AGL, within 10 km, centered around NL 35-03-19; WL 85-05-12

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
450-470 MHz	MO	400KF1D	2 W (ERP)	0.0001 %

Special Conditions:

- (1) 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.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) The stop buzzer contact for this project is Mark McHenry. Phone: 703 862-7495. Email: mmchenry@sharedspectrum.com
- (4) Licensee must coordinate operations with the appropriate public safety frequency coordinator or all of the public safety licensees using the public safety frequencies requested in the application.
- (5) Shared Spectrum Company must obtain consent from the following within 80 km of the contours of the testing area:
Paging Service licensees in 454 MHz/459 MHz
General Aviation Air-Ground Service in 454 MHz/459 MHz
- (6) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by DARPA Contract No. W911NF-18-C-0027. 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.