

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
SPECIAL TEMPORARY AUTHORIZATION**

EXPERIMENTAL

(Nature of Service)

XC MO

(Class of Station)

WK2XRQ

(Call Sign)

0052-EX-ST-2020

(File Number)

NAME Shared Spectrum Company

This Special Temporary Authorization is granted upon the express condition that it may be terminated by the Commission at any time without advance notice or hearing if in its discretion the need for such action arises. Nothing contained herein shall be construed as a finding by the Commission that the authority herein granted is or will be in the public interest beyond the express terms hereof.

This Special Temporary Authorization shall not vest in the grantee any right to operate the station nor any right in the use of the frequencies designated in the authorization beyond the term hereof, nor in any other manner than authorized herein. Neither the authorization nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This authorization is subject to the right of use of control the Government of the United States conferred by Section 706 of the Communications Act of 1934.

Special Temporary Authority is hereby granted to operate the apparatus described below:

Purpose Of Operation:

perform field tests for the upcoming Office of the Secretary of Defense, Rapid Reaction Technology Office, Thunderstorm 20-1 Technology Discovery and Innovation Event.

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 March 01, 2020

**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) 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.
- (3) 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
- (4) 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.