

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

EXPERIMENTAL

(Nature of Service)

WJ2XGR

(Call Sign)

XD MO

(Class of Station)

0914-EX-CN-2017

(File Number)

NAME Republic Wireless, 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: Raleigh, NC (within 75 km), within 75 km, centered around NL 35-47-15; WL 78-38-39
- (2) MOBILE: Chicago, IL (within 75 km), within 75 km, centered around NL 41-52-54; WL 87-37-23
- (3) MOBILE: Provo, UT (within 75 km), within 75 km, centered around NL 40-14-40; WL 111-39-39

Frequency Information

MOBILE: Raleigh, NC (within 75 km), within 75 km, centered around NL 35-47-15; WL 78-38-39

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
699-716 MHz	MO	10M0D1D	250 mW (ERP)	
824-849 MHz	MO	10M0D1D	250 mW (ERP)	
1710-1755 MHz	MO	10M0D1D	250 mW (ERP)	

This authorization effective February 01, 2018 and
will expire 3:00 A.M. EST February 01, 2020

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Raleigh, NC (within 75 km), within 75 km, centered around NL 35-47-15; WL 78-38-39

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1850-1910 MHz	MO	10M0D1D	250 mW (ERP)	
2401-2473 MHz	MO	1M00F1D 20M0D1D 20M0G1D 22M0D1D 40M0D1D 40M0G1D	100 mW (ERP)	
5735-5835 MHz	MO	10M0G1D 10M0D1D	100 mW (ERP)	

MOBILE: Chicago, IL (within 75 km), within 75 km, centered around NL 41-52-54; WL 87-37-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
699-716 MHz	MO	10M0D1D	250 mW (ERP)	
824-849 MHz	MO	10M0D1D	250 mW (ERP)	
1710-1755 MHz	MO	10M0D1D	250 mW (ERP)	
1850-1910 MHz	MO	10M0D1D 10M0D1D	250 mW (ERP)	

Frequency Information

MOBILE: Chicago, IL (within 75 km), within 75 km, centered around NL 41-52-54; WL 87-37-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2401-2473 MHz	MO	1M00F1D 20M0D1D 20M0G1D 22M0D1D 40M0D1D 40M0G1D	100 mW (ERP)	
5735-5835 MHz	MO	10M0G1D 10M0D1D	100 mW (ERP)	

MOBILE: Provo, UT (within 75 km), within 75 km, centered around NL 40-14-40; WL 111-39-39

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
699-716 MHz	MO	10M0D1D	250 mW (ERP)	
824-849 MHz	MO	10M0D1D	250 mW (ERP)	
1710-1755 MHz	MO	10M0D1D	250 mW (ERP)	
1850-1910 MHz	MO	10M0D1D 10M0D1D	250 mW (ERP)	
2401-2473 MHz	MO	1M00F1D 20M0D1D 20M0G1D	100 mW (ERP)	

Frequency Information

MOBILE: Provo, UT (within 75 km), within 75 km, centered around NL 40-14-40; WL 111-39-39

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2401-2473 MHz	MO		100 mW (ERP)	
		22M0D1D		
		40M0D1D		
		40M0G1D		
5735-5835 MHz	MO		100 mW (ERP)	
		10M0G1D		
		10M0D1D		

Special Conditions:

- (1) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (2) 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."
- (3) Operation in the 1695-1780 MHz, 1915-1920 MHz, 1995-2020 MHz or 2110-2200 MHz band requires consent of local Advanced Wireless Service (AWS) licensee(s) to avoid interference.
- (4) Operation is subject to prior coordination with the local Society of Broadcast Engineers, Inc. (SBE) frequency coordinator. Consult the list at http://freq.sbe.org/pdf_files/coordinators.pdf to find the appropriate coordinator.
- (5) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (6) Coordinate with the affected Fixed Microwave Service prior to operation in 2401-2473 MHz band.
- (7) Coordinate with the local SBE frequency coordinator prior to operation in 2401-2473 MHz band.
- (8) Operation must be consented by the following licensees within 50 miles of the test area:
 - o All 700 MHz licensees (698-758 MHz; 775-788 MHz)
 - o All Cellular licensees (824-849 MHz/869-894 MHz)
 - o All Broadband PCS licensee (1850-1910 MHz/1930-1990 MHz)
- (9) All the experimental equipment and devices must be retrieved by Republic Wireless, Inc. from the participants upon completion of the testing.