

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

EXPERIMENTAL

(Nature of Service)

WC2XXG

(Call Sign)

XD FX MO

(Class of Station)

0056-EX-CR-2021

(File Number)

NAME Motorola Solutions, 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: Schaumburg (COOK), IL, within 40 km, centered around NL 41-52-28; WL 87-38-22
- (2) Lake Zurich (LAKE), IL - NL 42-14-10; WL 88-03-53; MOBILE: Lake Zurich (LAKE), IL, within 45 km, centered around NL 42-14-10; WL 88-03-53
- (3) Chicago (COOK), IL - NL 41-58-42; WL 87-50-39; MOBILE: Chicago (COOK), IL, within 40 km, centered around NL 41-58-42; WL 87-57-39
- (4) Arlington Heights (COOK), IL - NL 42-08-14; WL 87-57-58; MOBILE: Arlington Heights (COOK), IL, within 48 km, centered around NL 42-08-14; WL 87-57-58
- (5) Chicago (COOK), IL - NL 41-52-51; WL 87-38-24; MOBILE: Chicago (COOK), IL, within 40 km, centered around NL 41-52-51; WL 87-38-24

Frequency Information

MOBILE: Schaumburg (COOK), IL, within 40 km, centered around NL 41-52-28; WL 87-38-22

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
806-960 MHz	MO	25K0V7W	0.6 W (ERP)	
806-960 MHz	FX	25K0V7W	300 W (ERP)	

This authorization effective February 01, 2021 and
will expire 3:00 A.M. EST February 01, 2023

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Schaumburg (COOK), IL, within 40 km, centered around NL 41-52-28; WL 87-38-22

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
806-960 MHz	FX	25K0W7W	190 W (ERP)	
902-928 MHz	FX	25K0V7W	300 W (ERP)	
932-935 MHz	FX	12K5V7W	300 W (ERP)	
941-944 MHz	FX	25K0V7W	300 W (ERP)	

Lake Zurich (LAKE), IL - NL 42-14-10; WL 88-03-53; MOBILE: Lake Zurich (LAKE), IL, within 45 km, centered around NL 42-

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
806-960 MHz	FX	25K0V7W	300 W (ERP)	
806-960 MHz	FX	25K0W7W	160 W (ERP)	
806-960 MHz	MO	25K0V7W	0.6 W (ERP)	
902-928 MHz	FX	25K0V7W	300 W (ERP)	
932-935 MHz	FX	12K5V7W	300 W (ERP)	

Frequency Information

Lake Zurich (LAKE), IL - NL 42-14-10; WL 88-03-53; MOBILE: Lake Zurich (LAKE), IL, within 45 km, centered around NL 42-

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
941-944 MHz	FX	25K0V7W	300 W (ERP)	

Chicago (COOK), IL - NL 41-58-42; WL 87-50-39; MOBILE: Chicago (COOK), IL, within 40 km, centered around NL 41-58-42

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
802-960 MHz	MO	25K0V7W	0.6 W (ERP)	
802-960 MHz	FX	25K0V7W	300 W (ERP)	
902-928 MHz	FX	25K0V7W	300 W (ERP)	
932-935 MHz	FX	12K5V7W	300 W (ERP)	
941-944 MHz	FX	25K0V7W	300 W (ERP)	

Arlington Heights (COOK), IL - NL 42-08-14; WL 87-57-58; MOBILE: Arlington Heights (COOK), IL, within 48 km, centered around

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
802-960 MHz	MO	25K0V7W	0.6 W (ERP)	

Frequency Information

Arlington Heights (COOK), IL - NL 42-08-14; WL 87-57-58; MOBILE: Arlington Heights (COOK), IL, within 48 km, centered around NL 42-08-14

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
806-960 MHz	FX	25K0V7W	190 W (ERP)	
902-928 MHz	FX	25K0V7W	190 W (ERP)	
932-935 MHz	FX	12K5V7W	190 W (ERP)	
941-944 MHz	FX	25K0V7W	190 W (ERP)	

Chicago (COOK), IL - NL 41-52-51; WL 87-38-24; MOBILE: Chicago (COOK), IL, within 40 km, centered around NL 41-52-51

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
802-960 MHz	FX	25K0V7W	300 W (ERP)	
802-960 MHz	MO	25K0V7W	0.6 W (ERP)	
902-928 MHz	FX	25K0V7W	300 W (ERP)	
932-935 MHz	FX	12K5V7W	300 W (ERP)	
941-944 MHz	FX	25K0V7W	300 W (ERP)	

Special Conditions:

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (2) 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.
- (3) 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.
- (4) Operations on frequencies in bands allocated to the commercial mobile radio service must be coordinated with commercial mobile radio service licensees.
- (5) Operations on frequencies in the bands allocated to the land mobile business industrial service must be coordinated with the designated land mobile business industrial coordinator.
- (6) Operations in the bands 928.0 - 929.0 MHz, 932.25 - 932.5 MHz, 941.25 - 942.5 MHz, 952.0 - 952.85 MHz, 956.25 - 956.45 MHz, or 959.85 - 960 MHz is prohibited on frequencies where the separation to any existing cochannel station is less than 145 km(90 miles).
- (7) Prior approval must be obtained from the market area licensee in the Multiple Address System Radio Service for operation on any frequency in the 932.0 - 932.25 MHz, 941.0 - 941.25 MHz, 928.85 - 929.0 MHz or 959.85 - 960 MHz band.
- (8) Operations on frequencies allocated to the fixed microwave service must be prior coordinated with existing fixed microwave stations in accordance with Section 101.103(d).
- (9) Operations on frequencies in bands allocated to the land mobile public safety service must be coordinated with the designated land mobile public safety coordinator.
- (10) All operations in all 5 locations within 932-935 MHz must be set at 12.5 kHz bandwidth.
- (11) Operation is subject to consent of the following within 50 miles of the test area:
 - o All Cellular licensees (824-849 MHz/869-894 MHz)
 - o Commercial Air-Ground licensee (849-851 MHz/894-896 MHz)
 - o SMR licensees (896-901 MHz/935-940 MHz)
- (12) Operation is subject to notification of the following within 50 miles of the test area:
 - o Narrowband PCS licensees (901-902 MHz)
 - o Location & Monitoring Service licensees (902-928 MHz)