

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

EXPERIMENTAL

(Nature of Service)

KB2XDW

(Call Sign)

XD      FX MO

(Class of Station)

0166-EX-CR-2020

(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) SCHAUMBURG (COOK), IL - NL 42-03-54; WL 88-02-54; MOBILE: Schaumburg. IL, within 113 km, centered around NL 42-03-54; WL 88-02-54
- (2) CAROL STREAM (DU PAGE), IL - NL 41-53-55; WL 88-05-48
- (3) CHICAGO (COOK), IL - NL 41-58-43; WL 87-50-34
- (4) PALANTINE (COOK), IL - NL 42-07-23; WL 88-02-08
- (5) MCHENRY (LAKE), IL - NL 42-21-20; WL 88-19-00

Frequency Information

SCHAUMBURG (COOK), IL - NL 42-03-54; WL 88-02-54; MOBILE: Schaumburg. IL, within 113 km, centered around NL 42-0

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
157.8625 MHz	FX		500 W (ERP)	
157.9125 MHz	FX		500 W (ERP)	
157.925 MHz	FX		500 W (ERP)	

This authorization effective June 01, 2020 and  
will expire 3:00 A.M. EST June 01, 2022

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

SCHAUMBURG (COOK), IL - NL 42-03-54; WL 88-02-54; MOBILE: Schaumburg, IL, within 113 km, centered around NL 42-0

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
159.27 MHz	FX		500 W (ERP)	
159.42 MHz	FX		1.5 kW (ERP)	
161.8125 MHz	FX		500 W (ERP)	
161.8625 MHz	FX		500 W (ERP)	
161.8875 MHz	FX		500 W (ERP)	
161.9125 MHz	FX		500 W (ERP)	
161.925 MHz	FX		500 W (ERP)	

CAROL STREAM (DU PAGE), IL - NL 41-53-55; WL 88-05-48

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
157.8625 MHz	FX		500 W (ERP)	
157.9125 MHz	FX		500 W (ERP)	

## Frequency Information

CAROL STREAM (DU PAGE), IL - NL 41-53-55; WL 88-05-48

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
157.925 MHz	FX		500 W (ERP)	
159.27 MHz	FX		500 W (ERP)	
159.42 MHz	FX		500 W (ERP)	
161.8125 MHz	FX		500 W (ERP)	
161.8625 MHz	FX		500 W (ERP)	
161.8875 MHz	FX		500 W (ERP)	
161.9125 MHz	FX		500 W (ERP)	
161.925 MHz	FX		500 W (ERP)	

CHICAGO (COOK), IL - NL 41-58-43; WL 87-50-34

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
157.8625 MHz	FX		500 W (ERP)	

## Frequency Information

CHICAGO (COOK), IL - NL 41-58-43; WL 87-50-34

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
157.9125 MHz	FX		500 W (ERP)	
157.925 MHz	FX		500 W (ERP)	
159.27 MHz	FX		500 W (ERP)	
159.42 MHz	FX		500 W (ERP)	
161.8125 MHz	FX		500 W (ERP)	
161.8625 MHz	FX		500 W (ERP)	
161.8875 MHz	FX		500 W (ERP)	
161.9125 MHz	FX		500 W (ERP)	
161.925 MHz	FX		500 W (ERP)	

## Frequency Information

PALANTINE (COOK), IL - NL 42-07-23; WL 88-02-08

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
157.8625 MHz	FX		500 W (ERP)	
157.9125 MHz	FX		500 W (ERP)	
157.925 MHz	FX		500 W (ERP)	
159.27 MHz	FX		500 W (ERP)	
159.42 MHz	FX		500 W (ERP)	
161.8125 MHz	FX		500 W (ERP)	
161.8625 MHz	FX		500 W (ERP)	
161.8875 MHz	FX		500 W (ERP)	
161.9125 MHz	FX		500 W (ERP)	
161.925 MHz	FX		500 W (ERP)	

## Frequency Information

MCHENRY (LAKE), IL - NL 42-21-20; WL 88-19-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
157.8625 MHz	FX		500 W (ERP)	
157.9125 MHz	FX		500 W (ERP)	
157.925 MHz	FX		500 W (ERP)	
159.27 MHz	FX		500 W (ERP)	
159.42 MHz	FX		500 W (ERP)	
161.8125 MHz	FX		500 W (ERP)	
161.8625 MHz	FX		500 W (ERP)	
161.8875 MHz	FX		500 W (ERP)	
161.9125 MHz	FX		500 W (ERP)	
161.925 MHz	FX		500 W (ERP)	

**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](https://www.sbe.org/sections/freq_local.php) to find the appropriate coordinator.
- (2) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (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) Licensee is authorized to use emissions and bandwidths specified on previous filings during the experiment.