

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

EXPERIMENTAL
(Nature of Service)

XD FX MO
(Class of Station)

WE2XDR
(Call Sign)

0165-EX-CM-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) SCHAUMBURG (COOK), IL - NL 42-03-44; WL 88-03-09; MOBILE: SCHAUMBURG (COOK), IL, within 113 km, centered around NL 42-03-44; WL 88-03-09
- (2) Chicago (COOK), IL - NL 41-58-43; WL 87-50-34
- (3) Palatine (COOK), IL - NL 42-07-23; WL 88-02-08
- (4) Chicago (COOK), IL - NL 41-52-51; WL 87-38-24; MOBILE: Chicago (COOK), IL, within 113 km, centered around NL 41-52-51; WL 87-38-24
- (5) Richardson (COLLIN), TX - NL 32-59-13; WL 96-39-18; MOBILE: Richardson, TX, within 1 km, centered around NL 32-59-13; WL 96-39-18

Frequency Information

SCHAUMBURG (COOK), IL - NL 42-03-44; WL 88-03-09; MOBILE: SCHAUMBURG (COOK), IL, within 113 km, centered around

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
450.125 MHz	FX	20K0F1E	250 W (ERP)	
		20K0F1D		
		15K0F2D		
		16K0F3E		
		16K0F3D		
		8K10F1W		
		9K90F1W		
		7K60FXE		

This authorization effective August 25, 2021 and
will expire 3:00 A.M. EST July 01, 2024

FEDERAL
COMMUNICATIONS
COMMISSION



Frequency Information

SCHAUMBURG (COOK), IL - NL 42-03-44; WL 88-03-09; MOBILE: SCHAUMBURG (COOK), IL, within 113 km, centered around

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
450.125 MHz	FX	7K60FXD 11K0F3E	250 W (ERP)	
451.4375 MHz	FX	20K0F1E 20K0F1D 15K0F2D 16K0F3E 16K0F3D 8K10F1W 9K90F1W	250 W (ERP)	
451.4375 MHz	MO	20K0F1E 20K0F1D 15K0F2D 16K0F3E 16K0F3D 8K10F1W 9K90F1W	250 W (ERP)	
451.525 MHz	FX	20K0F1E 20K0F1D 15K0F2D 16K0F3E 16K0F3D 8K10F1W 9K90F1W	250 W (ERP)	
451.6 MHz	FX	20K0F1E 20K0F1D 15K0F2D	250 W (ERP)	

Frequency Information

SCHAUMBURG (COOK), IL - NL 42-03-44; WL 88-03-09; MOBILE: SCHAUMBURG (COOK), IL, within 113 km, centered around

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
451.6 MHz	FX	16K0F3E 16K0F3D 8K10F1W 9K90F1W	250 W (ERP)	
451.6 MHz	MO	20K0F1E 20K0F1D 15K0F2D 16K0F3E 16K0F3D 8K10F1W 9K90F1W	250 W (ERP)	
451.65 MHz	FX	15K0F2D 16K0F3E 16K0F3D 20K0F1E 20K0F1D 8K10F1W 9K90F1W	250 W (ERP)	
451.65 MHz	MO	20K0F1E 20K0F1D 15K0F2D 16K0F3E 16K0F3D 8K10F1W 9K90F1W	250 W (ERP)	
451.7 MHz	FX	15K0F2D	250 W (ERP)	

Frequency Information

SCHAUMBURG (COOK), IL - NL 42-03-44; WL 88-03-09; MOBILE: SCHAUMBURG (COOK), IL, within 113 km, centered around

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
451.7 MHz	FX	16K0F3E 16K0F3D 20K0F1E 20K0F1D 8K10F1W 9K90F1W	250 W (ERP)	
451.7 MHz	MO	20K0F1E 20K0F1D 15K0F2D 16K0F3E 16K0F3D 8K10F1W 9K90F1W	100 W (ERP)	
451.8 MHz	FX	20K0F1E 20K0F1D 15K0F2D 16K0F3E 16K0F3D 8K10F1W 9K90F1W 7K60FXE 7K60FXD 11K0F3E	250 W (ERP)	
451.8 MHz	MO	20K0F1E 20K0F1D 15K0F2D 16K0F3E 16K0F3D 8K10F1W	250 W (ERP)	

Frequency Information

SCHAUMBURG (COOK), IL - NL 42-03-44; WL 88-03-09; MOBILE: SCHAUMBURG (COOK), IL, within 113 km, centered aro

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
451.8 MHz	MO	9K90F1W 7K60FXE 7K60FXD 11K0F3E	250 W (ERP)	
455.025 MHz	MO	20K0F1E 20K0F1D 15K0F2D 16K0F3E 16K0F3D 8K10F1W 9K90F1W 7K60FXE 7K60FXD 11K0F3E	250 W (ERP)	
455.075 MHz	MO	7K60FXE 7K60FXD 11K0F3E	250 W (ERP)	
455.085 MHz	MO	7K60FXE 7K60FXD 11K0F3E	250 W (ERP)	
455.125 MHz	MO	7K60FXE 7K60FXD 11K0F3E	250 W (ERP)	
455.2 MHz	MO	7K60FXE	250 W (ERP)	

Frequency Information

SCHAUMBURG (COOK), IL - NL 42-03-44; WL 88-03-09; MOBILE: SCHAUMBURG (COOK), IL, within 113 km, centered aro

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
455.2 MHz	MO	7K60FXD 11K0F3E	250 W (ERP)	
455.2125 MHz	MO	7K60FXE 7K60FXD 11K0F3E	250 W (ERP)	
455.225 MHz	MO	7K60FXE 7K60FXD 11K0F3E	250 W (ERP)	
456.4375 MHz	MO	20K0F1E 20K0F1D 15K0F2D 16K0F3E 16K0F3D 8K10F1W 9K90F1W	250 W (ERP)	
456.525 MHz	MO	20K0F1E 20K0F1D 15K0F2D 16K0F3E 16K0F3D 8K10F1W 9K90F1W	250 W (ERP)	
456.6 MHz	FX	15K0F2D 16K0F3E	250 W (ERP)	

Frequency Information

SCHAUMBURG (COOK), IL - NL 42-03-44; WL 88-03-09; MOBILE: SCHAUMBURG (COOK), IL, within 113 km, centered around

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
456.6 MHz	FX	16K0F3D 20K0F1E 20K0F1D	250 W (ERP)	
456.6 MHz	MO	20K0F1E 20K0F1D 15K0F2D 16K0F3E 16K0F3D 8K10F1W 9K90F1W	250 W (ERP)	
456.65 MHz	FX	15K0F2D 16K0F3E 16K0F3D 20K0F1E 20K0F1D	250 W (ERP)	
456.65 MHz	MO	20K0F1E 20K0F1D 15K0F2D 16K0F3E 16K0F3D 8K10F1W 9K90F1W	250 W (ERP)	
456.7 MHz	MO	20K0F1E 20K0F1D 15K0F2D 16K0F3E	250 W (ERP)	

Frequency Information

SCHAUMBURG (COOK), IL - NL 42-03-44; WL 88-03-09; MOBILE: SCHAUMBURG (COOK), IL, within 113 km, centered around

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
456.7 MHz	MO	16K0F3D 8K10F1W 9K90F1W	250 W (ERP)	
456.8 MHz	MO	20K0F1E 20K0F1D 15K0F2D 16K0F3E 16K0F3D 8K10F1W 9K90F1W 7K60FXE 7K60FXD 11K0F3E	250 W (ERP)	

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
450.075 MHz	FX	7K60FXE 7K60FXD 11K0F3E	250 W (ERP)	
450.2 MHz	FX	7K60FXD 7K60FXE 11K0F3E	250 W (ERP)	
450.2125 MHz	FX	7K60FXE 7K60FXD	250 W (ERP)	

Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
450.2125 MHz	FX	11K0F3E	250 W (ERP)	

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
450.025 MHz	FX	7K60FXE 7K60FXD 11K0F3E	250 W (ERP)	
450.085 MHz	FX	7K60FXE 7K60FXD 11K0F3E	250 W (ERP)	
450.225 MHz	FX	7K60FXE 7K60FXD 11K0F3E	250 W (ERP)	

Chicago (COOK), IL - NL 41-52-51; WL 87-38-24; MOBILE: Chicago (COOK), IL, within 113 km, centered around NL 41-52-5.

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
450.125 MHz	FX	20K0F1E 20K0F1D 15K0F2D 16K0F3E 16K0F3D 8K10F1W	250 W (ERP)	

Frequency Information

Chicago (COOK), IL - NL 41-52-51; WL 87-38-24; MOBILE: Chicago (COOK), IL, within 113 km, centered around NL 41-52-51

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
450.125 MHz	FX	9K90F1W 7K60FXE 7K60FXD 11K0F3E	250 W (ERP)	
451.4375 MHz	FX	20K0F1E 20K0F1D 15K0F2D 16K0F3E 16K0F3D 8K10F1W 9K90F1W	250 W (ERP)	
451.4375 MHz	MO	20K0F1E 20K0F1D 15K0F2D 16K0F3E 16K0F3D 8K10F1W 9K90F1W	250 W (ERP)	
451.525 MHz	FX	20K0F1E 20K0F1D 15K0F2D 16K0F3E 16K0F3D 8K10F1W 9K90F1W	250 W (ERP)	
451.6 MHz	FX	20K0F1E	250 W (ERP)	

Frequency Information

Chicago (COOK), IL - NL 41-52-51; WL 87-38-24; MOBILE: Chicago (COOK), IL, within 113 km, centered around NL 41-52-51

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
451.6 MHz	FX	20K0F1D 15K0F2D 16K0F3E 16K0F3D 8K10F1W 9K90F1W	250 W (ERP)	
451.6 MHz	MO	20K0F1E 20K0F1D 15K0F2D 16K0F3E 16K0F3D 8K10F1W 9K90F1W	250 W (ERP)	
451.65 MHz	FX	15K0F2D 16K0F3E 16K0F3D 20K0F1E 20K0F1D 8K10F1W 9K90F1W	250 W (ERP)	
451.65 MHz	MO	20K0F1E 20K0F1D 15K0F2D 16K0F3E 16K0F3D 8K10F1W 9K90F1W	250 W (ERP)	

Frequency Information

Chicago (COOK), IL - NL 41-52-51; WL 87-38-24; MOBILE: Chicago (COOK), IL, within 113 km, centered around NL 41-52-51

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
451.7 MHz	FX	15K0F2D 16K0F3E 16K0F3D 20K0F1E 20K0F1D 8K10F1W 9K90F1W	250 W (ERP)	
451.7 MHz	MO	20K0F1E 20K0F1D 15K0F2D 16K0F3E 16K0F3D 8K10F1W 9K90F1W	100 W (ERP)	
451.8 MHz	FX	20K0F1E 20K0F1D 15K0F2D 16K0F3E 16K0F3D 8K10F1W 9K90F1W 7K60FXE 7K60FXD 11K0F3E	250 W (ERP)	
451.8 MHz	MO	20K0F1E 20K0F1D 15K0F2D 16K0F3E 16K0F3D	250 W (ERP)	

Frequency Information

Chicago (COOK), IL - NL 41-52-51; WL 87-38-24; MOBILE: Chicago (COOK), IL, within 113 km, centered around NL 41-52-51

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
451.8 MHz	MO	8K10F1W 9K90F1W 7K60FXE 7K60FXD 11K0F3E	250 W (ERP)	
455.025 MHz	MO	20K0F1E 20K0F1D 15K0F2D 16K0F3E 16K0F3D 8K10F1W 9K90F1W 7K60FXE 7K60FXD 11K0F3E	250 W (ERP)	
455.075 MHz	MO	7K60FXE 7K60FXD 11K0F3E	250 W (ERP)	
455.085 MHz	MO	7K60FXE 7K60FXD 11K0F3E	250 W (ERP)	
455.125 MHz	MO	7K60FXE 7K60FXD 11K0F3E	250 W (ERP)	

Frequency Information

Chicago (COOK), IL - NL 41-52-51; WL 87-38-24; MOBILE: Chicago (COOK), IL, within 113 km, centered around NL 41-52-51

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
455.2 MHz	MO	7K60FXE 7K60FXD 11K0F3E	250 W (ERP)	
455.2125 MHz	MO	7K60FXE 7K60FXD 11K0F3E	250 W (ERP)	
455.225 MHz	MO	7K60FXE 7K60FXD 11K0F3E	250 W (ERP)	
456.4375 MHz	MO	20K0F1E 20K0F1D 15K0F2D 16K0F3E 16K0F3D 8K10F1W 9K90F1W	250 W (ERP)	
456.525 MHz	MO	20K0F1E 20K0F1D 15K0F2D 16K0F3E 16K0F3D 8K10F1W 9K90F1W	250 W (ERP)	
456.6 MHz	FX	15K0F2D	250 W (ERP)	

Frequency Information

Chicago (COOK), IL - NL 41-52-51; WL 87-38-24; MOBILE: Chicago (COOK), IL, within 113 km, centered around NL 41-52-51

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
456.6 MHz	FX	16K0F3E 16K0F3D 20K0F1E 20K0F1D	250 W (ERP)	
456.6 MHz	MO	20K0F1E 20K0F1D 15K0F2D 16K0F3E 16K0F3D 8K10F1W 9K90F1W	250 W (ERP)	
456.65 MHz	FX	15K0F2D 16K0F3E 16K0F3D 20K0F1E 20K0F1D	250 W (ERP)	
456.65 MHz	MO	20K0F1E 20K0F1D 15K0F2D 16K0F3E 16K0F3D 8K10F1W 9K90F1W	250 W (ERP)	
456.7 MHz	MO	20K0F1E 20K0F1D 15K0F2D	250 W (ERP)	

Frequency Information

Chicago (COOK), IL - NL 41-52-51; WL 87-38-24; MOBILE: Chicago (COOK), IL, within 113 km, centered around NL 41-52-51

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
456.7 MHz	MO	16K0F3E 16K0F3D 8K10F1W 9K90F1W	250 W (ERP)	
456.8 MHz	MO	20K0F1E 20K0F1D 15K0F2D 16K0F3E 16K0F3D 8K10F1W 9K90F1W 7K60FXE 7K60FXD 11K0F3E	250 W (ERP)	

Richardson (COLLIN), TX - NL 32-59-13; WL 96-39-18; MOBILE: Richardson, TX, within 1 km, centered around NL 32-59-13;

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
451.4375 MHz	FX	7K60FXD 7K60FXE 7K60FXW	0.1 W (ERP)	
451.4375 MHz	MO	7K60FXD 7K60FXE 7K60FXW	1 W (ERP)	
451.525 MHz	FX	7K60FXD	0.1 W (ERP)	

Frequency Information

Richardson (COLLIN), TX - NL 32-59-13; WL 96-39-18; MOBILE: Richardson, TX, within 1 km, centered around NL 32-59-13;

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
451.525 MHz	FX	7K60FXE 7K60FXW	0.1 W (ERP)	
451.525 MHz	MO	7K60FXD 7K60FXE 7K60FXW	1 W (ERP)	
451.6 MHz	FX	7K60FXD 7K60FXE 7K60FXW	0.1 W (ERP)	
451.6 MHz	MO	7K60FXD 7K60FXE 7K60FXW	1 W (ERP)	
451.65 MHz	FX	7K60FXD 7K60FXE 7K60FXW	0.1 W (ERP)	
451.65 MHz	MO	7K60FXD 7K60FXE 7K60FXW	1 W (ERP)	
451.7 MHz	FX	7K60FXD 7K60FXE 7K60FXW	0.1 W (ERP)	

Frequency Information

Richardson (COLLIN), TX - NL 32-59-13; WL 96-39-18; MOBILE: Richardson, TX, within 1 km, centered around NL 32-59-13;

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
451.7 MHz	MO	7K60FXD 7K60FXE 7K60FXW	1 W (ERP)	
456.4375 MHz	MO	7K60FXD 7K60FXE 7K60FXW	1 W (ERP)	
456.525 MHz	MO	7K60FXD 7K60FXE 7K60FXW	1 W (ERP)	
456.6 MHz	MO	7K60FXD 7K60FXE 7K60FXW	1 W (ERP)	
456.65 MHz	MO	7K60FXD 7K60FXE 7K60FXW	1 W (ERP)	
456.7 MHz	MO	7K60FXD 7K60FXE 7K60FXW	1 W (ERP)	

Special Conditions:

- (1) 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.

Special Conditions:

- (2) Operation is subject to prior coordination with the local Society of Broadcast Engineers, Inc. (SBE) frequency coordinator. Consult the list at <http://sbe.org/wp-content/uploads/freqcoor.pdf> to find the appropriate coordinator.
- (3) The station identification requirements of Section 5.115 of the Commission's Rules are waived.