

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

EXPERIMENTAL
(Nature of Service)

XD FX MO
(Class of Station)

WD2XDH
(Call Sign)

0108-EX-CR-2018
(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(g, h, j) of the Commission's Rules

Station Locations

- (1) Schaumburg, IL - NL 42-02-39; WL 88-02-36; MOBILE: Schaumburg, IL, within 24 km, centered around NL 42-02-39; WL 88-02-36
- (2) Redwood, CA - NL 37-29-19; WL 122-13-04; MOBILE: Redwood, CA, within 24 km, centered around NL 37-29-19; WL 122-13-04
- (3) Plantation, FL - NL 27-08-51; WL 80-15-15; MOBILE: Plantation, FL, within 24 km, centered around NL 27-08-51; WL 80-15-15
- (4) Chicago, IL - NL 41-52-53; WL 87-38-59; MOBILE: Chicago, IL, within 24 km, centered around NL 41-52-53; WL 87-38-59
- (5) Chicago (COOK), IL - NL 41-52-51; WL 87-38-24; MOBILE: Chicago (COOK), IL, within 24 km, centered around NL 41-52-51; WL 87-38-24

Frequency Information

Schaumburg, IL - NL 42-02-39; WL 88-02-36; MOBILE: Schaumburg, IL, within 24 km, centered around NL 42-02-39; WL 88-

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-72 MHz	FX	6M00D7W 6M00F1D 6M00G7F 6M00F7F	10 W (ERP)	

This authorization effective June 01, 2018 and
will expire 3:00 A.M. EST June 01, 2023

FEDERAL
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COMMISSION



Frequency Information

Schaumburg, IL - NL 42-02-39; WL 88-02-36; MOBILE: Schaumburg, IL, within 24 km, centered around NL 42-02-39; WL 88-02-36

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-72 MHz	MO	6M00D7W 6M00F1D 6M00G7F 6M00F7F	1 W (ERP)	
76-88 MHz	FX	6M00D7W 6M00F1D 6M00G7F 6M00F7F	10 W (ERP)	
76-88 MHz	MO	6M00D7W 6M00F1D 6M00G7F 6M00F7F	1 W (ERP)	
174-216 MHz	FX	6M00D7W 6M00F1D 6M00G7F 6M00F7F	10 W (ERP)	
174-216 MHz	MO	6M00D7W 6M00F1D 6M00G7F 6M00F7F	1 W (ERP)	
470-608 MHz	FX	6M00D7W 6M00F1D 6M00G7F	10 W (ERP)	

Frequency Information

Schaumburg, IL - NL 42-02-39; WL 88-02-36; MOBILE: Schaumburg, IL, within 24 km, centered around NL 42-02-39; WL 88-02-36

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
470-608 MHz	FX	6M00F7F	10 W (ERP)	
470-608 MHz	MO	6M00D7W 6M00F1D 6M00G7F 6M00F7F	1 W (ERP)	
614-758 MHz	MO	6M00F7F 6M00G7F 6M00F1D 6M00D7W	1 W (ERP)	
614-758 MHz	FX	6M00D7W 6M00F1D 6M00G7F 6M00F7F	10 W (ERP)	
769-788 MHz	MO	6M00D7W 6M00F1D 6M00G7F 6M00F7F	1 W (ERP)	
769-788 MHz	FX	6M00D7W 6M00F1D 6M00G7F 6M00F7F	10 W (ERP)	

Frequency Information

Schaumburg, IL - NL 42-02-39; WL 88-02-36; MOBILE: Schaumburg, IL, within 24 km, centered around NL 42-02-39; WL 88-02-36

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
799-806 MHz	FX	6M00D7W 6M00F1D 6M00G7F 6M00F7F	10 W (ERP)	
799-806 MHz	MO	6M00F7F 6M00G7F 6M00F1D 6M00D7W	1 W (ERP)	

Redwood, CA - NL 37-29-19; WL 122-13-04; MOBILE: Redwood, CA, within 24 km, centered around NL 37-29-19; WL 122-13-04

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-72 MHz	FX	6M00D7W 6M00F1D 6M00G7F 6M00F7F	10 W (ERP)	
54-72 MHz	MO	6M00D7W 6M00F1D 6M00G7F 6M00F7F	1 W (ERP)	
76-88 MHz	FX	6M00D7W 6M00F1D 6M00G7F	10 W (ERP)	

Frequency Information

Redwood, CA - NL 37-29-19; WL 122-13-04; MOBILE: Redwood, CA, within 24 km, centered around NL 37-29-19; WL 122-13-04

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
76-88 MHz	FX	6M00F7F	10 W (ERP)	
76-88 MHz	MO	6M00D7W 6M00F1D 6M00G7F 6M00F7F	1 W (ERP)	
174-216 MHz	FX	6M00D7W 6M00F1D 6M00G7F 6M00F7F	10 W (ERP)	
174-216 MHz	MO	6M00D7W 6M00F1D 6M00G7F 6M00F7F	1 W (ERP)	
470-608 MHz	FX	6M00D7W 6M00F1D 6M00G7F 6M00F7F	10 W (ERP)	
470-608 MHz	MO	6M00D7W 6M00F1D 6M00G7F 6M00F7F	1 W (ERP)	

Frequency Information

Redwood, CA - NL 37-29-19; WL 122-13-04; MOBILE: Redwood, CA, within 24 km, centered around NL 37-29-19; WL 122-13-04

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
614-758 MHz	FX	6M00F7F 6M00G7F 6M00F1D 6M00D7W	10 W (ERP)	
614-758 MHz	MO	6M00D7W 6M00F1D 6M00G7F 6M00F7F	1 W (ERP)	
769-788 MHz	MO	6M00F7F 6M00G7F 6M00F1D 6M00D7W	1 W (ERP)	
769-788 MHz	FX	6M00F7F 6M00G7F 6M00F1D 6M00D7W	10 W (ERP)	
799-806 MHz	MO	6M00D7W 6M00F1D 6M00G7F 6M00F7F	1 W (ERP)	
799-806 MHz	FX	6M00F7F 6M00G7F 6M00F1D	10 W (ERP)	

Frequency Information

Redwood, CA - NL 37-29-19; WL 122-13-04; MOBILE: Redwood, CA, within 24 km, centered around NL 37-29-19; WL 122-13-04

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
799-806 MHz	FX	6M00D7W	10 W (ERP)	

Plantation, FL - NL 27-08-51; WL 80-15-15; MOBILE: Plantation, FL, within 24 km, centered around NL 27-08-51; WL 80-15-15

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-72 MHz	FX	6M00D7W 6M00F1D 6M00G7F 6M00F7F	10 W (ERP)	
54-72 MHz	MO	6M00D7W 6M00F1D 6M00G7F 6M00F7F	1 W (ERP)	
76-88 MHz	FX	6M00D7W 6M00F1D 6M00G7F 6M00F7F	10 W (ERP)	
76-88 MHz	MO	6M00D7W 6M00F1D 6M00G7F 6M00F7F	1 W (ERP)	
174-216 MHz	FX	6M00D7W	10 W (ERP)	

Frequency Information

Plantation, FL - NL 27-08-51; WL 80-15-15; MOBILE: Plantation, FL, within 24 km, centered around NL 27-08-51; WL 80-15-1

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
174-216 MHz	FX	6M00F1D 6M00G7F 6M00F7F	10 W (ERP)	
174-216 MHz	MO	6M00D7W 6M00F1D 6M00G7F 6M00F7F	1 W (ERP)	
470-608 MHz	FX	6M00D7W 6M00F1D 6M00G7F 6M00F7F	10 W (ERP)	
470-608 MHz	MO	6M00D7W 6M00F1D 6M00G7F 6M00F7F	1 W (ERP)	
614-758 MHz	FX	6M00F7F 6M00G7F 6M00F1D 6M00D7W	10 W (ERP)	
614-758 MHz	MO	6M00D7W 6M00F1D 6M00G7F	1 W (ERP)	

Frequency Information

Plantation, FL - NL 27-08-51; WL 80-15-15; MOBILE: Plantation, FL, within 24 km, centered around NL 27-08-51; WL 80-15-1

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
614-758 MHz	MO	6M00F7F	1 W (ERP)	
769-788 MHz	FX	6M00D7W 6M00F1D 6M00G7F 6M00F7F	10 W (ERP)	
769-788 MHz	MO	6M00D7W 6M00F1D 6M00G7F 6M00F7F	1 W (ERP)	
799-806 MHz	MO	6M00D7W 6M00F1D 6M00G7F 6M00F7F	1 W (ERP)	
799-806 MHz	FX	6M00F7F 6M00G7F 6M00F1D 6M00D7W	10 W (ERP)	

Chicago, IL - NL 41-52-53; WL 87-38-59; MOBILE: Chicago, IL, within 24 km, centered around NL 41-52-53; WL 87-38-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-72 MHz	FX	6M00D7W	10 W (ERP)	

Frequency Information

Chicago, IL - NL 41-52-53; WL 87-38-59; MOBILE: Chicago, IL, within 24 km, centered around NL 41-52-53; WL 87-38-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-72 MHz	FX	6M00F1D 6M00G7F 6M00F7F	10 W (ERP)	
54-72 MHz	MO	6M00D7W 6M00F1D 6M00G7F 6M00F7F	1 W (ERP)	
76-88 MHz	FX	6M00D7W 6M00F1D 6M00G7F 6M00F7F	10 W (ERP)	
76-88 MHz	MO	6M00D7W 6M00F1D 6M00G7F 6M00F7F	1 W (ERP)	
174-216 MHz	FX	6M00D7W 6M00F1D 6M00G7F 6M00F7F	10 W (ERP)	
174-216 MHz	MO	6M00D7W 6M00F1D 6M00G7F	1 W (ERP)	

Frequency Information

Chicago, IL - NL 41-52-53; WL 87-38-59; MOBILE: Chicago, IL, within 24 km, centered around NL 41-52-53; WL 87-38-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
174-216 MHz	MO	6M00F7F	1 W (ERP)	
470-608 MHz	FX	6M00D7W 6M00F1D 6M00G7F 6M00F7F	10 W (ERP)	
470-608 MHz	MO	6M00D7W 6M00F1D 6M00G7F 6M00F7F	1 W (ERP)	
614-758 MHz	FX	6M00D7W 6M00F1D 6M00G7F 6M00F7F	10 W (ERP)	
614-758 MHz	MO	6M00F7F 6M00G7F 6M00F1D 6M00D7W	1 W (ERP)	
769-788 MHz	MO	6M00D7W 6M00F1D 6M00G7F 6M00F7F	1 W (ERP)	

Frequency Information

Chicago, IL - NL 41-52-53; WL 87-38-59; MOBILE: Chicago, IL, within 24 km, centered around NL 41-52-53; WL 87-38-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
769-788 MHz	FX	6M00D7W 6M00F1D 6M00G7F 6M00F7F	10 W (ERP)	
799-806 MHz	MO	6M00F7F 6M00G7F 6M00F1D 6M00D7W	1 W (ERP)	
799-806 MHz	FX	6M00F7F 6M00G7F 6M00F1D 6M00D7W	10 W (ERP)	

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-72 MHz	MO	6M00D7W 6M00F1D 6M00G7F 6M00F7F	1 W (ERP)	
54-72 MHz	FX	6M00D7W 6M00F1D 6M00G7F	10 W (ERP)	

Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-72 MHz	FX	6M00F7F	10 W (ERP)	
76-88 MHz	FX	6M00D7W 6M00F1D 6M00G7F 6M00F7F	10 W (ERP)	
76-88 MHz	MO	6M00D7W 6M00F1D 6M00G7F 6M00F7F	1 W (ERP)	
174-216 MHz	FX	6M00D7W 6M00F1D 6M00G7F 6M00F7F	10 W (ERP)	
174-216 MHz	MO	6M00D7W 6M00F1D 6M00G7F 6M00F7F	1 W (ERP)	
470-608 MHz	FX	6M00D7W 6M00F1D 6M00G7F 6M00F7F	10 W (ERP)	

Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
470-608 MHz	MO	6M00D7W 6M00F1D 6M00G7F 6M00F7F	1 W (ERP)	
614-758 MHz	FX	6M00D7W 6M00F1D 6M00G7F 6M00F7F	10 W (ERP)	
614-758 MHz	MO	6M00F7F 6M00G7F 6M00F1D 6M00D7W	1 W (ERP)	
769-788 MHz	MO	6M00D7W 6M00F1D 6M00G7F 6M00F7F	1 W (ERP)	
769-788 MHz	FX	6M00D7W 6M00F1D 6M00G7F 6M00F7F	10 W (ERP)	
799-806 MHz	MO	6M00F7F 6M00G7F 6M00F1D	1 W (ERP)	

Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
799-806 MHz	MO	6M00D7W	1 W (ERP)	
799-806 MHz	FX	6M00F7F 6M00G7F 6M00F1D 6M00D7W	10 W (ERP)	

Special Conditions:

- (1) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) 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.
- (4) 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.
- (5) Licensee should be aware that control and repeater stations may be licensed on frequencies in the 470-512 MHz band and if any interference occurs, the licensee of this authorization will be subject to immediate shut down.
- (6) Operation is subject to consent of All 700 MHz licensees (698-758 MHz; 775-788 MHz) within 50 miles of the test area.