

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

EXPERIMENTAL

(Nature of Service)

XT FX MO

(Class of Station)

WG2XRE

(Call Sign)

0167-EX-RR-2015

(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, IL - NL 42-02-39; WL 88-02-36; MOBILE: Schaumburg, IL, within 9.5 km
- (2) Palatine, IL - NL 42-06-11; WL 88-01-24; MOBILE: Palatine, IL, within 9.5 km
- (3) Plantation, FL, FL - NL 26-08-52; WL 80-15-14; MOBILE: Plantation, FL, within 9.5 km

Frequency Information

Schaumburg, IL - NL 42-02-39; WL 88-02-36; MOBILE: Schaumburg, IL, within 9.5 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
758-768 MHz	FX	5M00G7D 5M00W7W 5M00D7D 5M00G2D 5M00D7D 10M0G7D 10M0W7W 10M0G2D 10M0D7D	500 W (ERP)	
788-798 MHz	MO	5M00G7D	2.5 W (ERP)	

This authorization effective May 01, 2015 and
will expire 3:00 A.M. EST May 01, 2016

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Schaumburg, IL - NL 42-02-39; WL 88-02-36; MOBILE: Schaumburg, IL, within 9.5 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
788-798 MHz	MO	5M00W7W	2.5 W (ERP)	
		5M00G2D		
		5M00D7D		
		10M0G7D		
		10M0W7W		
		10M0G2D		
		10M0D7D		

Palatine, IL - NL 42-06-11; WL 88-01-24; MOBILE: Palatine, IL, within 9.5 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
758-768 MHz	FX	5M00G7D	500 W (ERP)	
		5M00W7W		
		5M00G2D		
		5M00D7D		
		10M0G7D		
		10M0W7W		
		10M0G2D		
		10M0D7D		
788-798 MHz	MO	5M00G7D	2.5 W (ERP)	
		5M00W7W		
		5M00G2D		
		5M00D7D		
		10M0G7D		
		10M0W7W		
		10M0G2D		
		10M0D7D		

Frequency Information

Plantation, FL, FL - NL 26-08-52; WL 80-15-14; MOBILE: Plantation, FL, within 9.5 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
758-768 MHz	FX	5M00G7D 5M00W7W 5M00G2D 5M00D7D 10M0G7D 10M0W7W 10M0G2D 10M0D7D	500 W (ERP)	
788-798 MHz	MO	5M00G7D 5M00W7W 5M00G2D 5M00D7D 10M0G7D 10M0W7W 10M0G2D 10M0D7D	2.5 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) MSI has analyzed information in the FCC's license databases and states that the proposed operation would not interfere or create a significant potential for harmful interference with any public safety operations in the 700 MHz band. The Illinois State Police, which use a portion of the subject frequencies for narrowband operations under a previous band plan, have concurred in MSI's proposed experimental license.
- (3) Operation of the experiment will not be used in mission-critical operations or in the delivery of live transmissions in duties to protect life, property, or safety. Operations will be confined to a 9.5 kilometer radius of the three base station sites listed in the application.
- (4) In case of interference issues, "stop-buzzer" contact for these experiments: Mark Solak, Project Manager, 847-576-3081 (office); 847-341-0223 (cell); CELX58@motorolasolutions.com.

Special Conditions:

- (5) MSI understands that an experimental license only permits shared use of the subject radio frequencies and that it may have to coordinate with other entities licensed for experimental purposes. MSI further understands that a separate concurrence from FirstNet will be required for renewal of this license.
- (6) All experimental operations by MSI will be secondary, meaning that they must not cause interference to narrowband or broadband operations authorized on a primary basis, including in the spectrum licensed to FirstNet. Narrowband or broadband operations authorized on a primary basis, including in the spectrum licensed to FirstNet, have no obligation to mitigate any interference that such primary operations may present to the MSI experimental operations.
- (7) FirstNet has not yet deployed in the geographic area covered by this application. MSI understands that if, during the term of this license, FirstNet or its assigns or lessees, plan to deploy in this area, MSI may have to reduce the coverage or power levels of its experimental transmissions or cease them entirely.
- (8)
 - i. Scope of license limited to applicant facility.
 - ii. Project limited to testing and may not involve live-duty operations by first responders or others.
 - iii. Applicant must accept interference from any other user of Band 14.
 - iv. Applicant must not cause interference to FirstNet operations or those approved to operate in Band 14 per license (i.e., Illinois State Police incumbency).
 - v. Verification by applicant of no current potential for interference with FirstNet operations or those approved to operate in Band 14 per license (i.e., Illinois State Police incumbency).
 - vi. POC established with "kill switch" authority; applicant agrees to cease operations at request of FirstNet immediately upon receipt of request to kill switch POC until such time, as determined by FirstNet, that interference issues are no longer at issue.