

**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)

0103-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 (COOK), IL - NL 41-52-28; WL 87-38-22; 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

Frequency Information

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

| 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, 2015 and  
will expire 3:00 A.M. EST February 01, 2017

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

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

| 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 arc

| 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)      |                           |

## Special Conditions:

- (1) Operation is subject to prior coordination with the Society of Broadcast Engineers, Inc. (SBE); ATTN: Executive Director; 9102 North Meridian Street, Suite 305; Indianapolis, IN 46260; telephone, (866) 632-4222; FAX, (317) 846-9120; e-mail, [executivedir@sbe.org](mailto:executivedir@sbe.org); information, [www.sbe.org](http://www.sbe.org).
- (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) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (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).

**Special Conditions:**

- (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 4 locations within 932-935 MHz must be set at 12.5 kHz bandwidth.