

**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)

0109-EX-RR-2014

(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, 2014 and  
will expire 3:00 A.M. EST June 01, 2016

**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) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (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) Operation is subject to prior coordination with the Society of Broadcast Engineers, Inc. (SBE); ATTN: Executive Director; 9247 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). Further renewal of this authorization is subject to prior coordination with SBE.
- (4) Licensee is authorized to use emissions and bandwidths specified on previous filings during the experiment.