

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

EXPERIMENTAL

(Nature of Service)

XD      FX MO

(Class of Station)

WG2XIS

(Call Sign)

0443-EX-PL-2012

(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(i) of the Commission's Rules

Station Locations

- (1) Chicago, IL - NL 41-51-13; WL 87-37-29; MOBILE: Within 2 miles (3.22 km) of Fixed Base Station., within 3.22 km, centered around NL 41-51-13; WL 87-37-29
- (2) Chicago, IL - NL 41-52-18; WL 87-37-28; MOBILE: Within 2 miles (3.22 km) of Fixed Base Station., within 3.22 km, centered around NL 41-52-18; WL 87-37-28
- (3) Chicago, IL - NL 41-51-38; WL 87-36-36; MOBILE: Within 2 miles (3.22 km) of Fixed Base Station., within 3.22 km, centered around NL 41-51-38; WL 87-36-36
- (4) Chicago, IL - NL 41-53-15; WL 87-36-36; MOBILE: Within 2 miles (3.22 km) of Fixed Base Station., within 3.22 km, centered around NL 41-53-15; WL 87-36-36

Frequency Information

Chicago, IL - NL 41-51-13; WL 87-37-29; MOBILE: Within 2 miles (3.22 km) of Fixed Base Station., within 3.22 km, centered

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 758-768 MHz | FX            |                     | 525 W (ERP)      |                           |
|             |               | 5M00G7D             |                  |                           |
|             |               | 5M00W7W             |                  |                           |
|             |               | 5M00D7D             |                  |                           |
|             |               | 5M00G2D             |                  |                           |
|             |               | 5M00D7D             |                  |                           |
|             |               | 10M0G7D             |                  |                           |
|             |               | 10M0W7W             |                  |                           |
|             |               | 10M0G2D             |                  |                           |

This authorization effective October 02, 2012 and  
will expire 3:00 A.M. EST March 31, 2013

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

Chicago, IL - NL 41-51-13; WL 87-37-29; MOBILE: Within 2 miles (3.22 km) of Fixed Base Station., within 3.22 km, centered

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 758-768 MHz | FX            | 10M0D7D             | 525 W (ERP)      |                           |
| 788-798 MHz | MO            | 5M00G7D             | 2 W (ERP)        |                           |
|             |               | 5M00W7W             |                  |                           |
|             |               | 5M00D7D             |                  |                           |
|             |               | 5M00G2D             |                  |                           |
|             |               | 5M00D7D             |                  |                           |
|             |               | 10M0G7D             |                  |                           |
|             |               | 10M0W7W             |                  |                           |
|             |               | 10M0G2D             |                  |                           |
|             |               | 10M0D7D             |                  |                           |

Chicago, IL - NL 41-52-18; WL 87-37-28; MOBILE: Within 2 miles (3.22 km) of Fixed Base Station., within 3.22 km, centered

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 758-768 MHz | FX            | 5M00G7D             | 525 W (ERP)      |                           |
|             |               | 5M00W7W             |                  |                           |
|             |               | 5M00D7D             |                  |                           |
|             |               | 5M00G2D             |                  |                           |
|             |               | 5M00D7D             |                  |                           |
|             |               | 10M0G7D             |                  |                           |
|             |               | 10M0W7W             |                  |                           |
|             |               | 10M0G2D             |                  |                           |
|             |               | 10M0D7D             |                  |                           |
| 788-798 MHz | MO            | 5M00D7D             | 2 W (ERP)        |                           |
|             |               | 5M00G2D             |                  |                           |
|             |               | 5M00D7D             |                  |                           |
|             |               | 10M0G7D             |                  |                           |

## Frequency Information

Chicago, IL - NL 41-52-18; WL 87-37-28; MOBILE: Within 2 miles (3.22 km) of Fixed Base Station., within 3.22 km, centered

| Frequency   | Station Class | Emission Designator                                 | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|-----------------------------------------------------|------------------|---------------------------|
| 788-798 MHz | MO            | 10M0W7W<br>10M0G2D<br>10M0D7D<br>5M00G7D<br>5M00W7W | 2 W (ERP)        |                           |

Chicago, IL - NL 41-51-38; WL 87-36-36; MOBILE: Within 2 miles (3.22 km) of Fixed Base Station., within 3.22 km, centered

| Frequency   | Station Class | Emission Designator                                                                             | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|-------------------------------------------------------------------------------------------------|------------------|---------------------------|
| 758-768 MHz | FX            | 5M00G7D<br>5M00W7W<br>5M00D7D<br>5M00G2D<br>5M00D7D<br>10M0G7D<br>10M0W7W<br>10M0G2D<br>10M0D7D | 525 W (ERP)      |                           |
| 788-798 MHz | MO            | 5M00G7D<br>5M00W7W<br>5M00D7D<br>5M00G2D<br>5M00D7D<br>10M0G7D<br>10M0W7W<br>10M0G2D<br>10M0D7D | 2 W (ERP)        |                           |

## Frequency Information

Chicago, IL - NL 41-53-15; WL 87-36-36; MOBILE: Within 2 miles (3.22 km) of Fixed Base Station., within 3.22 km, centered

| Frequency   | Station Class | Emission Designator                                                                             | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|-------------------------------------------------------------------------------------------------|------------------|---------------------------|
| 758-768 MHz | FX            | 5M00G7D<br>5M00W7W<br>5M00D7D<br>5M00G2D<br>5M00D7D<br>10M0G7D<br>10M0W7W<br>10M0G2D<br>10M0D7D | 525 W (ERP)      |                           |
| 788-798 MHz | MO            | 5M00G7D<br>5M00W7W<br>5M00D7D<br>5M00G2D<br>5M00D7D<br>10M0G7D<br>10M0W7W<br>10M0G2D<br>10M0D7D | 2 W (ERP)        |                           |

## Special Conditions:

- (1) The holder of this authorization acknowledges that, in addition to the Commission's authority under the Communications Act of 1934, as amended, and its rules, regulations, and policies thereunder, this authorization is also subject to the Commission's exercise of authority under the Middle Class Tax Relief and Job Creation Act of 2012, Pub. L. No. 112-96 to facilitate the transition of this spectrum to the First Responder Network Authority, and that the Commission's exercise of its authority may include cancellation of this authorization at any time without hearing.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) Licensee acknowledges that this authorization is for demonstration purposes only and all facilities shall be torn down at the expiration of this license on March 31, 2013 as stated in the application "Purpose of Operation".