

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

EXPERIMENTAL

(Nature of Service)

KB2XWO

(Call Sign)

XD      FX MO

(Class of Station)

0069-EX-RR-2002

(File Number)

NAME MOTOROLA, 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) of the Commission's Rules

Station Locations

- (1) SCHAUMBURG (COOK), IL - NL 42-03-54; WL 88-02-54; MOBILE:within 113 km
- (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) PALATINE (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:within 113 km

| Frequency   | Station Class | Emission Designator | Authorized Power     | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|----------------------|---------------------------|
| 821-824 MHz | MO            | 15K0F2D             | 40 W (Output Power)  |                           |
| 821-824 MHz | MO            | 16K0F3E             | 40 W (Output Power)  |                           |
| 821-824 MHz | MO            | 16K0F8D             | 40 W (Output Power)  |                           |
| 821-824 MHz | MO            | 16K8F1E             | 40 W (Output Power)  |                           |
| 821-824 MHz | MO            | 20K0F1E             | 40 W (Output Power)  |                           |
| 821-824 MHz | MO            | 20K0W1W             | 40 W (Output Power)  |                           |
| 821-824 MHz | MO            | 20K0W7W             | 40 W (Output Power)  |                           |
| 821-824 MHz | MO            | 8K10F1E             | 40 W (Output Power)  |                           |
| 821-824 MHz | MO            | 8K80D1W             | 40 W (Output Power)  |                           |
| 866-869 MHz | FX            | 15K0F2D             | 125 W (Output Power) |                           |
| 866-869 MHz | FX            | 16K0F3E             | 125 W (Output Power) |                           |
| 866-869 MHz | FX            | 16K0F8D             | 125 W (Output Power) |                           |
| 866-869 MHz | FX            | 16K8F1E             | 125 W (Output Power) |                           |

This authorization effective June 01, 2002 and  
will expire 3:00 A.M. EST June 01, 2004

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

SCHAUMBURG (COOK), IL - NL 42-03-54; WL 88-02-54; MOBILE:within 113 km

| Frequency   | Station Class | Emission Designator | Authorized Power     | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|----------------------|---------------------------|
| 866-869 MHz | FX            | 20K0F1E             | 125 W (Output Power) |                           |
| 866-869 MHz | FX            | 20K0W1W             | 125 W (Output Power) |                           |
| 866-869 MHz | FX            | 20K0W7W             | 125 W (Output Power) |                           |
| 866-869 MHz | FX            | 8K10F1E             | 125 W (Output Power) |                           |
| 866-869 MHz | FX            | 8K80D1W             | 125 W (Output Power) |                           |

CAROL STREAM (DU PAGE), IL - NL 41-53-55; WL 88-05-48

| Frequency   | Station Class | Emission Designator | Authorized Power     | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|----------------------|---------------------------|
| 866-869 MHz | FX            | 15K0F2D             | 125 W (Output Power) |                           |
| 866-869 MHz | FX            | 16K0F3E             | 125 W (Output Power) |                           |
| 866-869 MHz | FX            | 16K0F8D             | 125 W (Output Power) |                           |
| 866-869 MHz | FX            | 16K8F1E             | 125 W (Output Power) |                           |
| 866-869 MHz | FX            | 20K0F1E             | 125 W (Output Power) |                           |
| 866-869 MHz | FX            | 20K0W1W             | 125 W (Output Power) |                           |
| 866-869 MHz | FX            | 20K0W7W             | 125 W (Output Power) |                           |
| 866-869 MHz | FX            | 8K10F1E             | 125 W (Output Power) |                           |
| 866-869 MHz | FX            | 8K80D1W             | 125 W (Output Power) |                           |

CHICAGO (COOK), IL - NL 41-58-43; WL 87-50-34

| Frequency   | Station Class | Emission Designator | Authorized Power     | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|----------------------|---------------------------|
| 866-869 MHz | FX            | 15K0F2D             | 125 W (Output Power) |                           |
| 866-869 MHz | FX            | 16K0F3E             | 125 W (Output Power) |                           |
| 866-869 MHz | FX            | 16K0F8D             | 125 W (Output Power) |                           |
| 866-869 MHz | FX            | 16K8F1E             | 125 W (Output Power) |                           |
| 866-869 MHz | FX            | 20K0F1E             | 125 W (Output Power) |                           |
| 866-869 MHz | FX            | 20K0W1W             | 125 W (Output Power) |                           |
| 866-869 MHz | FX            | 20K0W7W             | 125 W (Output Power) |                           |
| 866-869 MHz | FX            | 8K10F1E             | 125 W (Output Power) |                           |
| 866-869 MHz | FX            | 8K80D1W             | 125 W (Output Power) |                           |

## Frequency Information

PALATINE (COOK), IL - NL 42-07-23; WL 88-02-08

| Frequency   | Station Class | Emission Designator | Authorized Power     | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|----------------------|---------------------------|
| 866-869 MHz | FX            | 15K0F2D             | 125 W (Output Power) |                           |
| 866-869 MHz | FX            | 16K0F3E             | 125 W (Output Power) |                           |
| 866-869 MHz | FX            | 16K0F8D             | 125 W (Output Power) |                           |
| 866-869 MHz | FX            | 16K8F1E             | 125 W (Output Power) |                           |
| 866-869 MHz | FX            | 20K0F1E             | 125 W (Output Power) |                           |
| 866-869 MHz | FX            | 20K0W1W             | 125 W (Output Power) |                           |
| 866-869 MHz | FX            | 20K0W7W             | 125 W (Output Power) |                           |
| 866-869 MHz | FX            | 8K10F1E             | 125 W (Output Power) |                           |
| 866-869 MHz | FX            | 8K80D1W             | 125 W (Output Power) |                           |

MCHENRY (LAKE), IL - NL 42-21-20; WL 88-19-00

| Frequency   | Station Class | Emission Designator | Authorized Power     | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|----------------------|---------------------------|
| 866-869 MHz | FX            | 15K0F2D             | 125 W (Output Power) |                           |
| 866-869 MHz | FX            | 16K0F3E             | 125 W (Output Power) |                           |
| 866-869 MHz | FX            | 16K0F8D             | 125 W (Output Power) |                           |
| 866-869 MHz | FX            | 16K8F1E             | 125 W (Output Power) |                           |
| 866-869 MHz | FX            | 20K0F1E             | 125 W (Output Power) |                           |
| 866-869 MHz | FX            | 20K0W1W             | 125 W (Output Power) |                           |
| 866-869 MHz | FX            | 20K0W7W             | 125 W (Output Power) |                           |
| 866-869 MHz | FX            | 8K10F1E             | 125 W (Output Power) |                           |
| 866-869 MHz | FX            | 8K80D1W             | 125 W (Output Power) |                           |

## 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) The station identification requirements of Section 5.115 of the Commission's Rules are waived.