

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

EXPERIMENTAL

(Nature of Service)

WB2XCJ

(Call Sign)

XD FX MO

(Class of Station)

0138-EX-RR-2003

(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(h, i) of the Commission's Rules

Station Locations

- (1) Nationwide; MOBILE: Nationwide
- (2) Ft. Worth, TX; MOBILE: within 80 km
- (3) Arlington Heights, IL; MOBILE: within 80 km

Frequency Information

Nationwide; MOBILE: Nationwide

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
806-851 MHz			500 W (ERP)	
851-894 MHz			500 W (ERP)	
896-902 MHz			500 W (ERP)	
902-928 MHz			200 W (ERP)	
929-932 MHz			3.5 kW (ERP)	
940-941 MHz			3.5 kW (ERP)	
1850-1910 MHz	MO		1.22 W (ERP)	
1850-1910 MHz	FX		1 kW (ERP)	
1910-1930 MHz				
1930-1990 MHz	MO		1.22 W (ERP)	
1930-1990 MHz	FX		1 kW (ERP)	
1990-2200 MHz			2 kW (ERP)	
2290-2500 MHz			2 kW (ERP)	
2500-2700 MHz			2 kW (ERP)	

This authorization effective September 01, 2003 and
will expire 3:00 A.M. EST September 01, 2005

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Nationwide; MOBILE: Nationwide

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5150-5250 MHz			10 W (ERP)	
5725-5825 MHz			10 W (ERP)	
27350-28350 MHz			2 kW (ERP)	
29100-29250 MHz			2 kW (ERP)	
31000-31300 MHz			2 kW (ERP)	

Ft. Worth, TX; MOBILE: within 80 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
806-851 MHz			500 W (ERP)	
851-894 MHz			500 W (ERP)	
896-902 MHz			500 W (ERP)	
902-928 MHz			200 W (ERP)	
929-932 MHz			3.5 kW (ERP)	
940-941 MHz			3.5 kW (ERP)	
1850-1910 MHz	MO		1.22 W (ERP)	
1850-1910 MHz	FX		1 kW (ERP)	
1910-1930 MHz				
1930-1990 MHz	MO		1.22 W (ERP)	
1930-1990 MHz	FX		1 kW (ERP)	
1990-2200 MHz			2 kW (ERP)	
2290-2500 MHz			2 kW (ERP)	
2500-2700 MHz			2 kW (ERP)	
5150-5250 MHz			10 W (ERP)	
5725-5825 MHz			10 W (ERP)	
27350-28350 MHz			2 kW (ERP)	
29100-29250 MHz			2 kW (ERP)	
31000-31300 MHz			2 kW (ERP)	

Arlington Heights, IL; MOBILE: within 80 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
806-851 MHz			500 W (ERP)	
851-894 MHz			500 W (ERP)	
896-902 MHz			500 W (ERP)	
902-928 MHz			200 W (ERP)	

Frequency Information

Arlington Heights, IL; MOBILE:within 80 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
929-932 MHz			3.5 kW (ERP)	
940-941 MHz			3.5 kW (ERP)	
1850-1910 MHz	MO		1.22 W (ERP)	
1850-1910 MHz	FX		1 kW (ERP)	
1910-1930 MHz				
1930-1990 MHz	MO		1.22 W (ERP)	
1930-1990 MHz	FX		1 kW (ERP)	
1990-2200 MHz			2 kW (ERP)	
2290-2500 MHz			2 kW (ERP)	
2500-2700 MHz			2 kW (ERP)	
5150-5250 MHz			10 W (ERP)	
5725-5825 MHz			10 W (ERP)	
27350-28350 MHz			2 kW (ERP)	
29100-29250 MHz			2 kW (ERP)	
31000-31300 MHz			2 kW (ERP)	

Special Conditions:

- (1) 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.
- (2) Any operation in these bands must be coordinated with the existing and future users to avoid interference. Emission types may vary under the experiment.
- (3) Operation in the 1850-1910 or 1930-1990 MHz band requires prior frequency coordination with 2 GHz microwave users and consent of PCS licensees to avoid interference.
- (4) Operation in the 1910-1930 MHz band requires coordination with UTAM, Inc. pursuant to Section 15.307 of the Commission's Rules.
- (5) Prior to equipment authorization or a determination of compliance, the device must be accompanied by a conspicuous notice worded as follows: "This device has not been authorized as required by the rules of the Federal Communications Commission. This device is not, and may not be, offered for sale or lease, or sold or leased, until authorization is obtained."
- (6) Operation in the 824-849 or 869-894 MHz band requires consent of local cellular licensee(s) to avoid interference.
- (7) NO market studies may be conducted under this authorization without further approval.
- (8) Licensee is authorized to operate up to 10 base stations and 200 mobile units for each individual experiment. Licensee shall not operate more than 50 base stations and 750 mobiles for all experiments combined under this authorization. Operation of additional base stations and mobile units must be requested with sufficient justification.

Special Conditions:

- (9) Licensee is authorized under Section 5.75 to test, demonstrate and operate prototype products in the above frequency bands. Licensee is required to notify the Commission of the specific details of each individual experiment, including location, number of base and mobile units, power, emission designator, and any other pertinent technical information. No operation shall take place until the Commission has received the required notification. This notification should be uploaded electronically via the OET Experimental Licensing Branch's Electronic Filing Web Site at https://gulfoss2.fcc.gov/prod/oet/index_els.html using the "Add Attachments" feature.