

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

EXPERIMENTAL

(Nature of Service)

XD FX MO

(Class of Station)

WG2XUV

(Call Sign)

0516-EX-PL-2013

(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) Pioneer, TN - NL 36-26-29; WL 84-20-36; MOBILE: Pioneer, TN, within 80 km, centered around NL 36-26-29; WL 84-20-36
- (2) Sharps Chapel, TN - NL 36-22-20; WL 83-53-35; MOBILE: Sharps Chapel, TN, within 80 km, centered around NL 36-22-20; WL 83-53-35
- (3) Belvidere, TN - NL 35-05-38; WL 86-07-56; MOBILE: Belvidere, TN, within 80 km, centered around NL 35-05-38; WL 86-07-56
- (4) Crossville, TN - NL 35-46-49; WL 84-58-42; MOBILE: Crossville, TN, within 80 km, centered around NL 35-46-49; WL 84-58-42
- (5) Jasper, TN - NL 35-09-30; WL 85-39-21; MOBILE: Jasper, TN, within 80 km, centered around NL 35-09-30; WL 85-39-21
- (6) Knoxville, TN - NL 35-57-18; WL 83-55-02; MOBILE: Knoxville, TN, at temporary fixed locations, within 250 km, centered around NL 35-57-18; WL 83-55-02

Frequency Information

Pioneer, TN - NL 36-26-29; WL 84-20-36; MOBILE: Pioneer, TN, within 80 km, centered around NL 36-26-29; WL 84-20-36

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
152.015-152.225 MHz	FX	8K30F1W 9K80D7W	150 W (ERP)	
152.495-152.825 MHz	FX	8K30F1W	150 W (ERP)	

This authorization effective October 23, 2013 and
will expire 3:00 A.M. EST November 01, 2015

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Pioneer, TN - NL 36-26-29; WL 84-20-36; MOBILE: Pioneer, TN, within 80 km, centered around NL 36-26-29; WL 84-20-36

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
152.495-152.825 MHz	FX	9K80D7W	150 W (ERP)	
157.755-158.085 MHz	MO	8K30F1W 9K80D7W	50 W (ERP)	
158.475-158.685 MHz	MO	8K30F1W 9K80D7W	50 W (ERP)	

Sharps Chapel, TN - NL 36-22-20; WL 83-53-35; MOBILE: Sharps Chapel, TN, within 80 km, centered around NL 36-22-20; V

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
152.015-152.225 MHz	FX	8K30F1W 9K80D7W	50 W (ERP)	
152.495-152.825 MHz	FX	8K30F1W 9K80D7W	50 W (ERP)	
157.755-158.085 MHz	MO	8K30F1W 9K80D7W	50 W (ERP)	
158.475-158.685 MHz	MO	8K30F1W 9K80D7W	50 W (ERP)	

Frequency Information

Belvidere, TN - NL 35-05-38; WL 86-07-56; MOBILE: Belvidere, TN, within 80 km, centered around NL 35-05-38; WL 86-07-56

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
152.015-152.225 MHz	FX	8K30F1W 9K80D7W	450 W (ERP)	
152.495-152.825 MHz	FX	8K30F1W 9K80D7W	450 W (ERP)	
157.755-158.085 MHz	MO	8K30F1W 9K80D7W	50 W (ERP)	
158.475-158.685 MHz	MO	8K30F1W 9K80D7W	50 W (ERP)	

Crossville, TN - NL 35-46-49; WL 84-58-42; MOBILE: Crossville, TN, within 80 km, centered around NL 35-46-49; WL 84-58-42

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
152.015-152.225 MHz	FX	8K30F1W 9K80D7W	75 W (ERP)	
152.495-152.825 MHz	FX	8K30F1W 9K80D7W	75 W (ERP)	
157.755-158.085 MHz	MO	8K30F1W 9K80D7W	50 W (ERP)	

Frequency Information

Crossville, TN - NL 35-46-49; WL 84-58-42; MOBILE: Crossville, TN, within 80 km, centered around NL 35-46-49; WL 84-58-4

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
158.475-158.685 MHz	MO	10K0F1D 9K80D7W	50 W (ERP)	

Jasper, TN - NL 35-09-30; WL 85-39-21; MOBILE: Jasper, TN, within 80 km, centered around NL 35-09-30; WL 85-39-21

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
152.015-152.225 MHz	FX	8K30F1W 9K80D7W	150 W (ERP)	
152.495-152.825 MHz	FX	8K30F1W 9K80D7W	150 W (ERP)	
157.755-158.085 MHz	MO	8K30F1W 9K80D7W	50 W (ERP)	
158.475-158.685 MHz	MO	8K30F1W 9K80D7W	50 W (ERP)	

Knoxville, TN - NL 35-57-18; WL 83-55-02; MOBILE: Knoxville, TN, at temporary fixed locations, within 250 km, centered aro

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152.015-152.225 MHz	FX	8K30F1W 9K80D7W	150 W (ERP)	

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
152.495-152.825 MHz	FX	8K30F1W 9K80D7W	150 W (ERP)	
157.755-158.085 MHz	MO	8K30F1W 9K80D7W	50 W (ERP)	
158.475-158.685 MHz	MO	8K30F1W 9K80D7W	50 W (ERP)	

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) 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; 9102 North Meridian Street, Suite 305; Indianapolis, IN 46260; telephone, (866) 632-4222; FAX, (317) 846-9120; e-mail, executivedir@sbe.org; information, www.sbe.org.