

**NARRATIVE STATEMENT**

Pursuant to Section 5.3(c) and Section 5.53 of the Federal Communications Commission's ("FCC") rules, 47 C.F.R. §§ 5.3(c), 5.53, Motorola Solutions, Inc. ("MSI") respectfully requests an **export only, station code "XE"** experimental license to support the testing and demonstration of prototype equipment under development for use outside of the United States that will operate in the 1370-1390 MHz and 1452-1492 MHz bands.

Grant of this application would serve to replace MSI's previous license, issued under call sign WJ2XIC, File Nos. 0718-EX-CN-2017 and 0112-EX-CM-2020, which was inadvertently allowed to lapse without renewal. Specifically, this application seeks an identical license with the identical technical specifications and conditions authorized under call sign WJ2XIC for Location No. 1 at Schaumburg, IL, and Location No. 3 at Winter, WI. Location No. 2 at Chicago, IL previously authorized under call sign WJ2XIC is no longer needed and is not included in the instant application. Moreover, Location Nos. 1 and 2 were successfully coordinated with the FAA and AFTRCC during the processing of the earlier application for WJ2XIC, and those two locations will be re-coordinated if required in connection with this application as well.

The following information is provided in support of this request:

**A. Applicant's Name, Address, and FCC Registration Number ("FRN"):**

Motorola Solutions, Inc.  
Attention: Frank Korinek  
Director, Spectrum & Regulatory Government Affairs  
1455 Pennsylvania Avenue, N.W., Suite 900  
Washington, DC 20004

FRN: 0002861649

**B. Purpose of Operation:**

MSI is a leading manufacturer of mobile radio equipment and systems and is continually engaged in the design and development of new and innovative solutions. It is actively involved in particular with researching and developing wireless data and voice capabilities incorporated into not only enterprise products, but also into non-commercial communications systems.

By this application, MSI seeks to test and demonstrate equipment and solutions designed for use outside of the United States. It does not propose to test equipment for domestic use under the requested authority. Moreover, MSI does not propose to market, sell, or lease prototype equipment under the requested authority for operation within the United States. After the experimentation ceases, MSI will recall and recover all test devices.

**C. Proposed Locations:**

MSI proposes to conduct tests and demonstrations at two locations specified in the attached application at: (1) its facilities located in Schaumburg, IL; and (2) a remote, rural location in Sawyer County, Wisconsin, south of Line A. As noted above, Location No. 2 at Chicago, IL previously authorized under call sign WJ2XIC is no longer needed and is not included in the instant application

**D. Technical Specifications:**

Application Type/Classification:	XE (Experimental Export Only)
Frequency Bands:	1350-1390 MHz and 1452-1492 MHz
Modulation:	OFDM, unmodulated carrier for reference only
Bandwidth / Emissions Designators:	5M00D1D, 5M00D7D, 5M00G1D, 5M00G2D, 5M00G7D, 5M00W7W, 10M0D1D, 10M0D7D, 10M0G1D, 10M0G2D, 10M0G7D, 10M0W7W, 20M0D1D, 20M0D7D, 20M0G1D, 20M0G2D, 20M0G7D, 20M0W7W
Antenna Data / Temp. Fixed Stations:	
Power Output (TPO):	4 Watts Peak
ERP / EIRP:	38.7 Watts / 63.4 Watts
Antenna Data / Mobile Units:	
TPO:	4 Watts Peak
ERP / EIRP:	38.7 Watts / 63.4 Watts

As the modulation bandwidth is scalable, other emission modes may be utilized, but in no event will the emissions extend beyond the frequency bands requested. All power levels will comply with the limits set forth in the FCC's rules, including those relating to human exposure to radiation.

**E. Equipment To Be Used:**

MSI proposes to deploy a limited number of units at the proposed locations. It expects that it will be able to complete its experimentation and demonstration with a maximum of 2 temporary fixed base stations at each location and 2 mobile units in the vicinity of each temporary base station location. Thus, the maximum number of temporarily fixed base stations will be 6 and the maximum number of mobiles will be 6 to be deployed under the requested authority. Moreover, MSI will limit the power, area of operation, and transmitting times of these units to the minimum necessary to conduct its tests and demonstrations.

**F. Antenna / Antenna Structure Heights:**

The antennas to be installed under this authority will not extend more than six meters above the ground or, if mounted on an existing building, will not extend more than six meters above the building. If an antenna is mounted on an existing structure other than a building, it will be installed in accordance with FAA and FCC rules and regulations.

**G. Restrictions on Operation:**

As noted above, MSI does not propose to market, sell, or lease prototype equipment to end users or conduct a market study in conjunction with this test. Moreover, no fees will be charged to entities using the equipment during this test. After the experimentation ceases, MSI will recall and recover all devices that do not comply with FCC regulations. If any different treatment becomes necessary during the course of its experimentation, MSI will seek separate and additional authority from the agency.

MSI also recognizes that all operations under the requested authority must not cause harmful interference to authorized facilities. It does not anticipate that such interference will occur, but should such interference occur, MSI will immediately take steps to resolve the interference, including if necessary discontinuing operation.

In addition, MSI would advise entities using the equipment that permission to operate the equipment has been granted under experimental authority issued to MSI, is strictly temporary and may be canceled at any time.

**H. Public Interest:**

MSI submits that issuance of the requested authority is in the public interest, convenience, and necessity, as it will permit MSI to develop innovative equipment that will accommodate the communications needs of users.

I. **Contact Information:**

Technical Point of Contact (“POC”) and “Stop Buzzer” POC:

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