

NARRATIVE STATEMENT

By this application, Motorola, Inc., seeks a license to test and demonstrate prototype equipment for public safety use operating on 764-776 MHz fixed and 794-806 MHz mobile. Experimental activities will be conducted at Schaumburg, Illinois; Chicago, Illinois; Plantation, Florida; and Tampa, Florida. The following information is provided in support of this request:

Need for a License:

Motorola has developed equipment for public safety use and seeks to test and demonstrate this equipment to evaluate its functionality and acceptability prior to obtaining equipment authorization. Grant of a license will serve the public interest, necessity and convenience, as it will allow Motorola to develop and improve equipment used to meet public safety needs.

Purpose of Operation:

Motorola proposes to test, demonstrate and operate prototype radio equipment for public safety use operating on 764-776 MHz fixed and 794-806 MHz mobile.

Proposed Location:

Motorola proposes to conduct its experimental activities within 24 km of the following four locations.

Base Stations: Within 24 km of

Schaumburg, Illinois
North Latitude 42 deg 02' 39"
West Longitude 88 deg 02' 36"
Datum: NAD27

Chicago, Illinois
North Latitude 41 deg 52' 54"
West Longitude 87 deg 38' 29"
Datum: NAD27

Plantation, Florida
North Latitude 27 deg 08' 51"
West Longitude 80 deg 15' 15"
Datum: NAD27

Tampa, Florida
North Latitude 27 deg 53' 28"

West Longitude 82 deg 47' 22"
Datum: NAD27

Mobiles: Within 32 km of each base station

Technical Specifications:

Frequency: 764-776 MHz FX, 794-806 MHz MO
Power: Base Station: 70 Watts Peak TPO, 450 Watts Peak ERP
Mobiles: 3 Watts Peak TPO, 6 Watts Peak ERP
Necessary Bandwidth: Not greater than 130 kHz
Modulation: Multicarrier QAM
Emissions: 130KD7W, 22K0F1D, 11K0F1D
Antennas: Omnidirectional

Antenna Information:

The antennas will not extend more than 6 meters above the ground or, if mounted on an existing building, will not extend more than 6 meters above the building. If the antennas are mounted on an existing structure other than a building, they will be installed in accordance with FAA and FCC rules and regulations.

Equipment to be Used:

Motorola expects that it will be able to complete its experimentation and demonstration with one (1) base unit and no greater than sixteen (16) mobile units per location. It will also limit the power, area of operation, and transmitting times to the minimum necessary to evaluate the equipment.

Restrictions on Operation:

Motorola recognizes that the operation of any equipment under experimental authority must not cause harmful interference to authorized facilities. It therefore will coordinate its activities with any licensees in the proposed bands in accordance with FCC requirements. Should interference occur, Motorola will take immediate steps to resolve the interference, including if necessary arranging for the discontinuance of operation.

In addition, Motorola will advise entities using the equipment that permission to operate has been granted under experimental authority issued to Motorola, that such operation is strictly temporary, and that the equipment may not cause harmful interference. Motorola proposes to label the equipment or associated written information as follows:

FCC STATEMENT

Permission to operate this device has been granted under experimental authority issued by the Federal Communications Commission to Motorola, Inc., is strictly temporary and may be cancelled at any time. Operation is subject to the condition that it not cause harmful interference. This device is not, and may not be, offered for sale or sold until the approval of the FCC has been obtained. Thus, the user does not hold a property right in the device and may be required

to return the device.

Public Interest:

Motorola submits that issuance of a license is in the public interest, convenience, and necessity. Grant of a license will permit Motorola to develop innovative equipment that will accommodate the public safety communications needs of users.

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