

NARRATIVE STATEMENT

By this application, Motorola, Inc., seeks a license in part to replace its Special Temporary Authorization under call sign WA9XGU, File No. 0308-EX-ST-1999, which will expire on April 22, 2000. The license will allow Motorola to continue testing and demonstrating equipment for export only operating on 3650-3700 MHz. Experimental activities will be conducted at three locations: Fort Worth, Texas; Schaumburg, Illinois; and Arlington Heights, Illinois. The following information is provided in support of this request:

Need for a License:

Motorola has developed equipment for use outside the United States and seeks to continue to test and demonstrate this equipment to evaluate its functionality and acceptability.

Purpose of Operation:

Motorola proposes to test, demonstrate and operate prototype radio equipment that will be used overseas for operation in the 3650-3700 MHz band. It understands that this band has not been allocated for such use in the United States. Motorola does not intend to market the equipment that is subject to this experimental application for the use within the United States.

Proposed Locations:

Motorola proposes to place experimental base stations within a 40 km radius of the following three locations. Mobiles would operate within a 40 km radius of the base stations. Grant of an experimental license within these boundaries will allow Motorola to operate at its various test sites and buildings in those three cities.

Location #1:

5555 N. Beach Street
Fort Worth, TX 76137
Tarrant County

North Latitude 32 deg 50' 43"
West Longitude 97 deg 17' 35"
Datum: NAD27

Location #2:

1301 E. Algonquin Rd.
Schaumburg, IL 60196
Cook County

North Latitude 42 deg 03' 48"
West Longitude 88 deg 02' 48"
Datum: NAD27

Location #3:

1475 West Shure Drive
Arlington Heights, IL 60004
Cook County

North Latitude 42 deg 08' 13"
West Longitude 88 deg 00' 03"
Datum: NAD27

Technical Specifications:

3650-3700 MHz
50 Watts peak TPO
1000 W ERP peak
20M0W7W
PN sequence spread spectrum for channel sounding experiments
20 MHz bandwidth

3650-3700 MHz
20 Watts peak TPO
500 W ERP peak
10K0N0N
CW (Low speed keyed)
10 kHz maximum bandwidth

3650-3700 MHz
50 Watts peak TPO
1000 W ERP peak
20M0W7W
OFDM/TDD
20 MHz bandwidth

Antenna Information:

The antennae that would be employed under this license 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 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.

Equipment to be Used:

Motorola proposes to employ only a limited number of units. It expects that it will be able to complete its experimentation and demonstration with a maximum of 6 base units (2 base units at each location) and 60 mobile units (20 mobile units in the vicinity of each base location). It will also limit the power, area of operation, and transmitting times of these units 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 or users in the proposed band. 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 receiving experimental equipment that permission to operate has been granted under authority issued to Motorola, that such operation is strictly temporary, and that the equipment may not cause harmful interference. Motorola will also advise entities evaluating the equipment of the FCC's restrictions on marketing for use in the United States. To that, 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 for use in the United States 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 communications needs of users.

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