

NARRATIVE STATEMENT

By this application, Motorola, Inc., seeks experimental special temporary authority to conduct engineering tests and to demonstrate equipment operating on 217-222 MHz during the period beginning **March 6, 2002**, and ending September 6, 2002. The following information is provided in support of this request:

Need for an STA:

Motorola is developing systems to operate in the 217-222 MHz band and seeks to test and demonstrate prototype equipment to evaluate its functionality and acceptability. Grant of a license will serve the public interest, necessity and convenience, as it will allow Motorola to develop and improve systems to meet the communications needs of users.

Purpose of Operation:

Motorola proposes to test, demonstrate and operate radio equipment to demonstrate the functionality of systems and associated protocols in a field environment.

Proposed Locations :

Motorola proposes to conduct its experimental activities within 80 km of its corporate headquarters in Schaumburg as well as at four additional sites, as follows:

Schaumburg, Illinois
North Latitude 42 deg 03' 54"
West Longitude 088 deg 02' 54" (NAD83)

Lake Zurich, Illinois
North Latitude 42 deg 14' 12"
West Longitude 088 deg 04' 17" (NAD83)

Chicago Ridge, Illinois
North Latitude 41 deg 42' 31"
West Longitude 087 deg 47' 02" (NAD83)

Mount Lukens, California
North Latitude 34 deg 16' 08"
West Longitude 118 deg 14' 20" (NAD83)

Santiago Peak, California
North Latitude 33 deg 42' 39"
West Longitude 117 deg 32' 04" (NAD83)

Technical Specifications :

Base Stations:

Frequencies:	217-222 MHz
Output Power:	50 Watts Mean TPO
Radiated Power:	25W Mean ERP
Necessary Bandwidth:	11 kHz
Modulation:	FM
Emissions:	F3E, F2D
Antenna:	Omnidirectional
Model Nos.	MX800FFHNSZ2CD, others
FCC ID Nos.	Pending

Temporary Fixed (Mobile) Radios:

Frequencies	217-222 MHz
Output Power:	30Watts Mean TPO
Radiated Power	60W Mean ERP (with 2dB gain antenna)
Necessary Bandwidth:	11 kHz
Modulation:	FM
Emissions:	F3E
Antenna:	Omnidirectional
Model Nos.	AAM25MHF4DP5AN, others
FCC ID Nos.	Pending

Portables:

Frequencies:	217-222 MHz
Output Power:	5.5 Watts Mean TPO
Radiated Power:	1.75W Mean ERP
Necessary Bandwidth:	11 kHz
Modulation:	FM
Emissions:	F3E
Antenna:	Omnidirectional
Model Nos.	AAH25MDF4DP5AN; AAM25MHF4DP5AN, others
FCC ID Nos.	Pending

Motorola will employ equipment that has been tested to demonstrate compliance with the FCC's guidelines for human exposure to radiation. It is in the process of obtaining authorization for this equipment and expects to file applications for such approval with the FCC in the next two weeks.

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 existing structures other than buildings, 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 a maximum of 5 base units, 15 mobile units, and 30 portable at each location other than at its corporate headquarters in Schaumburg. In Schaumburg, Motorola proposes to operate on a maximum of 16 base stations, 60 mobile units, and 100 portable units. It will 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 or users 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.

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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