

NARRATIVE STATEMENT

By this application, Motorola, Inc., respectfully requests expedited special temporary authority ("STA") for a one week period — **May 7-14, 2007**— to test, evaluate and demonstrate a prototype radio communications system designed for public safety use operating on no more than ten non-government frequencies allocated under Part 90 of the FCC's rules in the 150.8 – 157.0375 MHz band and the 157.1875-162.0125 MHz band. Experimental activities will be conducted on a non-interference basis from a single location in Mills, Wyoming, using a maximum of ten 12.5 kHz frequencies that are unassigned to other licensees near that location. The following information is provided in support of this request:

Purpose of Operation and Need for Expedited Treatment:

Motorola proposes to test a prototype system for a state government public safety user so that it may demonstrate the functionality and capability of the system, determine user acceptability, and obtain needed feedback to improve and enhance the design of the system.

Motorola respectfully requests expedited treatment of its request so that it may commence its demonstration beginning on May 7. Motorola scheduled the tests for this period to meet user requirements anticipating that it would operate pursuant to Section 2.803 of the Commission's rules under the prospective user's own authorization. That authorization has not yet been issued, however. Motorola is unable to re-schedule the test, as the user's representatives attending the demonstration cannot readily participate at another time. In addition, Motorola seeks to provide actual test data at user meetings to be held during the weeks following. Given the user's need to enhance its communications abilities as quickly as possible to meet public safety and homeland security responsibilities, grant of this request would therefore be in the public interest.

Motorola does not propose to market, sell, or lease prototype equipment to end users in conjunction with this test. Moreover, no fees will be charged to entities using the equipment during this test. After the experimentation ceases, Motorola will recall and recover all devices that do not comply with FCC regulations.

Proposed Location:

Motorola proposes to conduct its test activities from a single site located at 1771 N. Salt Creek Highway, Mills (Natrona), Wyoming (NAD 83: 42-52-5.1N; 106-21-25W). Mobile operations will occur within 80 kilometers of that location.

Technical Specifications:

Non-Government Frequency Bands:	150.8 – 157.0375 MHz; 157.1875-162.0125 MHz
Base Station Power:	200 W Peak Effective Radiated Power (ERP) 100 W Transmitter Output Power (TPO) (all power levels will comply with the limits set forth in the FCC's rules, including those relating to human exposure to radiation)
Mobile Power:	100 W Peak ERP; 100 W TPO
Bandwidth:	12.5 kHz per Channel
Modulation:	Frequency Modulation
Emission Designators:	10K0F1D; 11K0F3E; 8K10F1E
Station Antenna:	Omnidirectional up to 9 dBi Gain
Mobile Antenna:	Omnidirectional up to 3 dBi Gain

As stated above, operation under this experimental STA will occur only on a limited number of 12.5 kHz channel pairs on non-government frequencies in the 150.8 – 157.0375 MHz band and 157.1875-162.0125 MHz band. Specifically, Motorola has currently selected the following channels for the proposed operation: 150.805, 150.9725, 151.625, 154.585, 157.725, 158.3475, 159.2475, and 159.7725 MHz. Nevertheless, Motorola has requested authorization in this application to conduct tests within these entire bands so it will have the flexibility to select other, non-government channels to avoid interference as necessary.

Motorola also requests a waiver of the station identification requirements set forth in Section 5.115 of the Commission's rules, 47 C.F.R. § 5.115 (2005).

Antenna Information:

The antennas will not extend more than six (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 antenna structure other than a building, they will be installed in accordance with FAA and FCC rules and regulations.

Types and Number of Units To Be Tested:

To obtain valid data and to present an accurate demonstration of real-world operations, Motorola must deploy a sufficient number of units during its test to simulate actual usage. It expects that it will be able to complete its demonstration with base stations located at a single site and with no more than fifteen (15) mobile units or portables. It will also limit the power, area of operation, and transmitting times to the minimum necessary to evaluate the equipment.

Restrictions on Operation / Interference Protection:

Motorola recognizes that the operation of any equipment under experimental authority must not cause harmful interference to authorized facilities. As stated above, operation under this experimental STA will occur only on a limited number of 12.5 kHz channel pairs on non-government channels allocated under Part 90 of the FCC's rules. Motorola will also coordinate with existing licensees, as necessary, but has pre-selected channels that are not assigned in the area or that are sufficiently distant so as not to raise any interference concerns. 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 prototype 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 Statement:

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

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