

NARRATIVE STATEMENT

By this application, Motorola, Inc., seeks a Special Temporary Authority (STA) to test and demonstrate prototype equipment designed to support activities associated with Homeland Security, namely the tracking of secured assets within shipping containers. Motorola proposes to conduct the test commencing **November 15, 2004**, at two locations in the United States as listed below. The following information is provided in support of this request:

Purpose of Operation and Need for STA:

Motorola proposes to test, demonstrate and operate prototype equipment being developed to support homeland security. Motorola is a leading manufacturer of radio equipment and seeks to test and demonstrate this equipment during various stages of its research and design to evaluate functionality and acceptability prior to seeking equipment authorization. Grant of an experimental license will serve the public interest, necessity and convenience, as it will allow Motorola to improve upon equipment used to meet radio communications requirements. An STA is needed to allow Motorola to commence its proposed experimentation immediately pending FCC action on an application for regular authority, which it intends to submit shortly.

Proposed Locations:

Motorola proposes to conduct tests within 50 kilometers of its primary research and development sites at the following locations:

1. Schaumburg, Illinois
North Latitude 42 deg 03' 48"
West Longitude 88 deg 02' 48"
Datum: NAD27
2. Chicago, Illinois
North Latitude 41 deg 52' 53"
West Longitude 87 deg 38' 59"
Datum: NAD27

Technical Specifications:

Frequency:	433.500 – 434.500 (center frequency of 433.92MHz)
Effective Radiated Power:	Mobiles / Beacon Tags: -23dBm / 5uWatt Peak
Necessary Bandwidth:	Not greater than 850kHz.
Modulation:	Amplitude Modulation; CDMA
Emissions:	100KA2D, 850KW2D

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.

Antenna Information:

The beaconing transmitters, with integral antennas will not, under any circumstances, extend more than 6 meters above the local road base level. Any receive-only / monitoring antennas that are mounted on an existing structures other than a building, will be installed in accordance with FAA and FCC rules and regulations.

Equipment To Be Used:

To obtain accurate data regarding real-world operations, Motorola must employ a sufficient number of units during its studies to simulate actual usage. It expects that it will be able to complete its experimentation and demonstration with not more than 10 mobile units per test location. In other words, 20 low power mobile beaconing tags reflect the maximum number of unapproved or unlicensed units that would be in operation at any given time at both of the locations combined under the experimental license it requests. Moreover, Motorola will limit the power, area of operation, and transmitting times to the minimum necessary to evaluate the equipment. It is expected that the total test time would not exceed 4 hours per week, with a maximum of 4 weeks of testing over the course of the six-month STA. As required, Motorola would seek separate and specific authority if more units were needed to conduct a particular experiment.

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.

Motorola does not propose to market, sell, or lease any prototype equipment to end-users. After the experimentation ceases, Motorola would recall and recover all devices that are not in compliance with FCC regulations. If any different treatment becomes necessary during the course of its experimentation, Motorola will seek separate and additional authority from the agency.

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 an STA will permit Motorola to develop innovative equipment that will accommodate the public safety communications needs of users.

Contact Information:

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