

Narrative Statement:

By this application, Motorola, Inc. ("Motorola"), respectfully requests modification of its experimental license WC2XUE to make two changes:

- 1) to modify the Maitland, Florida location (Location #2) to Lake Mary, Florida, where the Motorola facilities have moved and where future testing will be centered; and
- 2) to add testing at Lake Mary, Florida in the 5470-5725 MHz band, which is currently being conducted under special temporary authority ("STA") call sign number WD9XBH, in order to continue to develop and test equipment for export only operating in the 5.4 GHz band.

The first change is a minor change to the location of the experimental tests and no other information is being changed in the current experimental license. Therefore, the remainder of this narrative addresses the second request. With respect to the second request, the testing in the new frequency band, the following information is provided:

Purpose of Operation:

Under the requested additional experimental authority, Motorola proposes to build and test prototype equipment operating in the 5470-5725 MHz frequency range. The equipment is designated for export only.

Proposed Locations:

Motorola proposes to operate 20 base stations and 20 subscriber units within a 10 km radius of its Lake Mary, FL location with address of 1064 Greenwood Blvd, Suite 400, Lake Mary, FL 32756 (28.75° N.L., 81.35° W.L.).

Technical Specifications:

Application Type/Classification:	XE (Experimental Export Only)
Frequency Band:	5470-5725 MHz
Modulation:	OFDM with 64-QAM or 16-QAM modulation
Bandwidth / Emissions Designators:	2M00DXD
Antenna Data / Fixed Base Station:	
Power Output (TPO):	20 dBm (100 mW)
Vertical Beamwidth:	60 degrees
Horizontal Beam Width:	Omni
Gain:	10.0 dBi
EIRP:	30 dBm (1000 mW)
ERP	27.8 dBm (610 mW)
Polarization:	Vertical
Antenna Data / mobile Subscriber Unit:	
Power Output (TPO):	20dBm (100 mW)
Vertical Beamwidth:	140degrees (-3dB points)
Horizontal Beam Width:	Omni
Gain:	3.0 dBi
EIRP:	23 dBm (200 mW)
ERP	20.9 dBm (120 mW)
Polarization:	Vertical

Equipment to be used:

Motorola proposes to employ only a limited number of units—20 subscriber units and 20 base stations. The units will be Motomesh Duo units that function as access points and routers. The units will be deployed to test performance and range then removed at the end of the tests. The tests will be conducted for the minimum time to allow determination of the performance.

Antenna / Antenna Structure Heights:

The antennas to be deployed under this authority will not extend more than 20 meters above the ground. The Antenna will be omni directional.

Restrictions on Operation:

Motorola does not propose to market, sell, or lease prototype equipment to end users. No fees will be charged to users in conjunction with this experimental network.

Motorola also recognizes that the operation of any unapproved devices must not cause harmful interference to authorized facilities. It does not anticipate that such interference will occur, as the prototype equipment will operate at low power: 1 watt EIRP. Should interference occur, however, Motorola will immediately take reasonable steps to resolve the interference, including if necessary discontinuing operation. To that end, Motorola would advise entities using the equipment that permission to operate the equipment has been granted under experimental authority issued to Motorola, is strictly temporary and may be canceled at any time. Specifically, Motorola proposes to label the equipment conspicuously 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 canceled at any time. This device has not been authorized as required by the rules of the Federal Communications Commission.

This device is not, and may not be, offered for sale or lease, or sold or leased, until authorization is obtained. Thus, the user does not hold a property right in the device and may be required to return the device.

Motorola is asking for authority to select a channel out of the capable range of frequencies the equipment is capable of, we will also monitor the spectrum for other radio activities and, will avoid any channels to which we observe channels in use.

Public Interest:

Motorola submits that issuance of authority to perform the experimental testing is in the public interest, convenience, and necessity, as it will permit Motorola to develop innovative equipment that will accommodate the communications needs of users. Further, moving from testing under an STA to regular experimental authority will reduce the ongoing administrative burden on FCC staff as the testing will continue as product development and testing continues over the ensuing years.

Contact Information:

Motorola, Inc.
Request for Modification of Experimental License WC2XUE
File No. 0041-EX-ML-2008
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