

Before the
Federal Communications Commission
Washington, DC 20554

In the Matter of)
)
M/A-Com, Inc.)
)
Request for Experimental License to Allow)
Development of New Wideband Technologies)
And Products to Support Public Safety Networks. .)

To: Chief, Experimental Licensing Branch

Request for Experimental License

Background

M/A-COM, Inc. (“M/A-COM”) is a major supplier of private land mobile equipment in the United States, particularly to the public safety community. M/A-COM has been working with leaders in the public safety arena, particularly since September 11th, 2001, to develop new communications systems that provide quick and easy interoperability solutions at mobile command and control facilities.

M/A-Com is currently investigating the use of commercial networks to be used as a back-up to public safety networks. The purpose of this application is to permit M/A-Com to develop new technologies to support this goal. M/A-Com has been cautious to assure that its experimental operations have caused no interference to other licensed users in the bands. M/A-com will continue to exercise such caution when experimenting with newer technologies with bandwidths up to 5.0 MHz.

Emissions

The current implementation of WCDMA utilizes phase modulation and contains a minimum of three digital modulation channels in a 5 MHz bandwidth. Although emission designator “5M00G7W” would appear to characterize the current modulation scheme, M/A-Com is requesting a somewhat less restrictive emission designator, “5M00GXW.” This emission designator will allow M/A-Com to experiment with a number of different technologies without having to modify the experimental license for each new modulation scheme.

Conclusion

M/A-Com is constantly exploring new technologies to develop new wireless telecommunications equipment for the public safety sector, and has a continuing need for an authorization in the Experimental Radio Service to allow it to develop and to test such equipment in an over-the-air environment. Such testing is critical to M/A-Com being able to continue to lead the world in the development and production of new wireless technologies. The authorization also needs to be flexible enough to allow M/A-Com to test new technologies quickly, without the requirement to modify the license for each new modulation scheme. M/A-Com will utilize such authority cautiously to avoid causing interference to any other authorized radio service licensee.

For the above reasons, M/A-Com respectfully requests that the Commission grant the application as submitted.

Respectfully submitted,

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