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**M/A-COM**

December 14, 2004

Federal Communications Commission  
FCC Laboratory Division  
Equipment Authorization Branch  
7435 Oakland Mills Road  
Columbia Maryland 21046

Subject: FCC ID: OWDTR-0035-E  
New Equipment Authorization Grant

M/A-COM seeks Equipment Authorization Grant on the M7100<sup>IP</sup> VHF (8 – 50 watt; 136 – 174 MHz) mobile radio with referenced FCC ID for FCC Part 90, 80, 74, and 22.

Exhibits included are photographs of the boards, test report, antenna data sheets, MPE calculation reports for the two antennas to be used, schematics, parts list, block diagram, operational description, accessories, User's manual, factory calibration procedure, etc.

Please note the frequency capability of the product, which is intended to meet market application needs for Land Mobile radio, NTIA applications, and maritime applications. Leaving the factory, the radio is set for FCC frequency band edges with specific channels configured at the time of trunked or conventional base station licensing (system frequency assignments). There are no user available frequency controls beyond the configured frequency assignments. Additionally, this product is not marketed at the retail level.

The vehicle mount rooftop antenna comes with mounting hardware that has two different length threaded fasteners. This is shown in the MPE report as the V1 and V2 version; no impact to calculated MPE.

Confidentiality letter and Rhein Tech Laboratories, Inc. agent authorization letter to act on M/A-COM's behalf for this original submission, have been provided as exhibits as well.

Thank you for your kind consideration and timely review of this addition to M/A-COM's mobile product line.

Sincerely,

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Regulatory Manager,  
Engineering Project Manager

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