

March 10, 2005

Mr. Andrew Leimer
Federal Communications Commission
FCC Laboratory Division
Equipment Authorization Branch
7435 Oakland Mills Road
Columbia, Maryland 21046

FCC ID: OWDTR-0035-E
CRN: 28453
731 Confirmation Number: EA389381

Mr. Leimer,

With regard to your correspondence of February 14, 2005, the following are your questions and M/A-COM's response.

1) Regarding your answer to Correspondence 28375 the antenna installation instructions mention distances of 47, 66, and 85 cms depending on the radio. Please provide a photo of a typical motorcycle installation with a ruler showing these distances to the user.

Response:

An error is in this filing and the previous issued Grants. A Class II Permissive Change will be filed for each of those issued Grants subsequent to resolution of this pending filing, treating the current correspondence on its' own.

The M7100 mobile radios, when used in a motorcycle application, are configured at the Lynchburg, VA factory (or the authorized factory representative location), for a conducted output power of 25 Watts.

The VHF radio in this Grant request, has a configurable power range of 8 to 50 Watts (in one Watt increments), and Grant notes should indicate this variability. This variable power configurability has been in the M7100 mobile product design from the beginning, and through error, was not listed in the other issued Grants. There are no new additions or changes to the product family.

As an exhibit with this correspondence is a revised MPE calculation based on the 25 Watt power level. 5% has been added as opposed to the 20% adder indicated by rule 90.205 (r). Fixed power

manufacturing variance influence is not present at the time of use, due to the configuration actions taken prior to shipment and system commissioning. Statistical review and observation of manufacturing configurations shows repeatability of less than .04 db unit-to-unit variance. 5% is used in the calculation to allow for comprehensive uncertainty.

Also included as an exhibit with this correspondence is a photograph showing the distance in an actual motorcycle application utilizing M/A-COM mounting bracket hardware and antenna. Subsequent Class II Permissive Changes will provide these as well.

Finally, exhibits have been included with this correspondence for revised Operator and motorcycle Installation manuals, which now tabulate motorcycle specific MPE separation distance and warning against the substitution of vehicular mobile units for motorcycle application.

2) Please justify use under Part 22 which is defined as a radio service to the general public. This device is limited to controlled environments. Part 22 will be removed from this grant.

Response:

Please delete this as part of the filing and Grant.

3) Please justify use under Part 74. Part 74H has a 1 W power limit.

Response:

Please delete this as part of the filing and Grant

Sincerely,



Daryl Popowitch
Regulatory Manager
Engineering Project Manager

M/A-COM, Inc. – Lynchburg, VA