

Timco Engineering, Inc.

Response to OET Inquiry:
FCC ID: MMA700671A

Re: FCC ID: MMA700671A

Applicant: Midland Radio Corporation
Date of Original Email: 03/21/2003

Subject:

- 1.) Additional user manual training to educate the user of their RF exposure and how to control it. User manual states "Note: The above warning list is not intended to include all hazards that may be encountered when using this radio." Please provide a more comprehensive list of hazards and means for the user to control their exposure. Additional issues might include for example user duty factor.

Response: Refer to updated User Manual with comprehensive list of hazards. The User Manual will state "Important Safety Information" with a heading "Warning" and a heading "FCC RF Safety Requirements."

- 2.) Updated grant comment MPE distance of 75 cm is not consistent with filing. FCC conversions show 94 and 209 cm.

Response: The updated Grant Statement will include the actual electric field Measured distance as recorded by the Amplifier Research Isotropic Field Probe and information regarding specific antenna usage.

- 3.) Statement and associated steps how the device will comply with controlled and uncontrolled MPE limits when installed on the intended vehicles. Please provided updated user manual with specific instructions to assure that these distances can be maintain. Please define the expected vehicles that these can be mounted on. Please consider steps suggested in 18 March email to Bruno Clavier from Martin Perrine.

Response: The User Manual has been updated and specifies the safe distance as determined by electric field measurements. A safe distance was determined to be a person standing next to the automobile door. A 1996 Ford Contour was used as a typical model. This automobile is a compact car and the roof line is typical for a small compact car. A 2002 Honda Accord was found to have a larger roof area and was greater in height. The same was true for a Lincoln Continental.

- 4.) Antenna exhibit and details. Grant comment states "Use of any other antenna, other than the one supplied, must be addressed at the time of licensing. Please

provide external photographs and user manual statements as appropriate. If other antennas are to be used please update grant comment with maximum allowable gain. Also, this is considered a mobile device. RF safety compliance is determined at certification. Please update accordingly.

Response. A typical antenna for this radio would be a base loaded whip antenna no longer than 1 meter in height. A vertical loaded whip antenna has a typical gain of 0 dBd up to and including a full length vertical antenna.. Photographs of a magnetic mounted loaded whip antenna mounted on the Ford Contour has been uploaded with this report. This would be a typical installation for this model radio. 0dBd will be specified as maximum gain in the User Manual, a typical number for this type installation.