



American Telecommunications Certification Body Inc.
6731 Whittier Ave, McLean, VA 22101

July 20, 2002

RE: Mine Safety Appliances Co., Instrument Division

FCC ID: P9R-10031511

After a review of the submitted information, I have a few comments on the above referenced Application.

- 1) The block diagram should show the frequency of all oscillators in the device (CFR 2.1033(a)(5)).
- 2) The users manual does not appear to contain the information specified by 15.21. Please comment.
- 3) FYI, This application for certification will only cover the transmitter portion of the system.
- 4) Please justify the use of 60 dB for correction of the limit from 300m to 1m. The typical correction of 40 dB per decade is normally applied unless specific measurements are made to justify using a different correction factor (see 15.31(f)(2).
FYI, $40 \log (300/1) = 99.0 \text{ dB}$ which will only yield better readings. Also, calculating a correction factor based on 2 points in your data at 1 and 3 meter at 0.0267 MHz yields a correction factor of 46.3 dB per decade.
- 5) The limits are either peak or averaged depending on the frequency as specified in 15.209. Please explain whether the measured emissions are peak or average.
- 6) The EUT contains a 4 MHz oscillator according to the schematic. Please provide information that ensures compliance with the requirements of 15.33(a)(4) and 15.209(f)

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The items indicated above must be submitted before processing can continue on the above referenced application. Failure to provide the requested information may result in application termination. Correspondence should be considered part of the permanent submission and may be viewed from the Internet after a Grant of Equipment Authorization is issued.

Please do not respond to this correspondence using the email reply button. In order for your response to be processed expeditiously, you must submit your documents through the AmericanTCB.com website. Also, please note that partial responses increase processing time and should not be submitted.

Any questions about the content of this correspondence should be directed to the sender.