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21 November 2005

FCC/OET Equipment Authorization Team

This letter responds to an inquiry posed to Remington in an email sent on 17 November 2005. That email is reproduced below. Specifically, you asked *why the output power of the requested sample is about 5 dB lower than the output power measured by the laboratory (Qualitech EMC Laboratory) that tested the unit for Remington* .

The test lab measured the transmitter output using a cable that ran directly from the transmitter output connector to the spectrum analyzer. See the description of test setup 1 in Appendix C of the test report for the Eyeball and the description of the measurement of peak conducted output power. The description of test setup 1 is on page 46 of the test report; the report on maximum peak conducted power is on page 11 of the report.

The unit supplied to the FCC Lab is a complete unit ready for deployment. The transmitter is encapsulated in an elastomer that forms the ball shape of the Eyeball and that provides support and cushioning for the mechanical and electronic subsystems of the eyeball. The antenna and transmitter/antenna connection are surrounded by the elastomer. The elastomer is a urethane with an added organic black pigment.

We believe that the disparity between the power you measured and the power measured in our test lab is due to losses of the radio signal by absorption in the urethane. Your inquiry did not describe how you measured the power, but we assume that you measured the field strength rather than by de-encapsulating the unit and connecting to the antenna port of the transmitter. The power measured in the lab was the power delivered at the transmitter connector by an un-encapsulated unit.

Sincerely yours,

Charles L. Jackson

**From:** Generic Office of Engineering Technology [mailto:[oetech@fccsun27w.fcc.gov](mailto:oetech@fccsun27w.fcc.gov)]  
**Sent:** Thu 11/17/2005 11:59 AM  
**To:** Gendelman, Asher  
**Subject:** FCC Equipment Authorization System

To: Asher Gendelman, Remington Arms Company, Inc.

From: Diane Poole

[Diane.Poole@fcc.gov](mailto:Diane.Poole@fcc.gov)

FCC Application Processing Branch

Re: FCC ID TII-EBR1

Applicant: Remington Arms Company, Inc.

Correspondence Reference Number: 29975

731 Confirmation Number: EA617491

1, Please submit the copy of the Granted waiver.

2, Please give explanation why the output power of the requested sample is about 5 dB lower than the output power measured by their test lab.

The items indicated above must be submitted before processing can continue on the above referenced application. Failure to provide the requested information within 60 days of the original e-mail date may result in application dismissal pursuant to Section 2.917 (c) and forfeiture of the filing fee pursuant to section 1.1108.

DO NOT reply to this e-mail by using the Reply button. In order for your response to be processed expeditiously, you must upload your response via the Internet at [www.fcc.gov](http://www.fcc.gov), Electronic Filing, OET Equipment Authorization Electronic Filing. If the response is submitted through Add Attachments, in order to expedite processing, a message which informs the processing staff that a new exhibit has been submitted must also be submitted via Submit Correspondence. 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 e-mail address listed below the name of the sender.