

Exhibit P: Cover Letter

FCC ID: CW21669-3

Information about the Client

Company Name:	Rothenbuhler Engineering Company, Inc.
Address:	PO Box 708, 2191 Rhodes Road
City, State, Zip:	Sedro Woolley, WA, 98284-0708
Test Requested By:	Herb Hainey
Job Number:	ROTH0001

Equipment Under Test (EUT)

EUT Model Number or Product Name:	Remote Control Blasting Machine
	FCC ID: CW21669-3

Opinion

Transient Frequency Behavior

Specification Requirements	Method Requirements	Description	Comments/Deviations
FCC CFR 2.1055	FCC CFR 90.213	Transient Frequency Behavior	

Opinion: The Equipment meets the intent specified by the requirements listed above.

Discussion: The manufacturer has attested that no modifications were made to the frequency determining circuitry of the radio module used in this family of products. The FCC previously approved this radio module. Engineering data was submitted by Herb Hainey, P.E, to support that this product has not changed and is still in compliance. The final compliance decision was based upon the fact that the FCC has already accepted the data. The engineering data is on file and available upon request.

Reference: Test data from previously submitted product FCC ID: CW21668-1 has been included in Exhibit O.

Frequency Stability vs. Temperature

Specification Requirements	Method Requirements	Description	Comments/Deviations
FCC CFR 2.1055	90.213	Frequency Stability	

Opinion: The Equipment meets the intent specified by the requirements listed above.

Discussion: The manufacturer has attested that no modifications were made to the frequency determining circuitry of the radio module used in this family of products. The FCC previously approved this radio module. Engineering data was submitted by Herb Hainey, P.E, to support that this product has not changed and is still in compliance. The final compliance decision was based upon the fact that the FCC has already accepted the data. The engineering data is on file and available upon request.

Reference: Test data from previously submitted product FCC ID: CW21668-1 has been included in Exhibit N.

Frequency Stability vs. Input Power

Specification Requirements	Method Requirements	Description	Comments/Deviations
90.214	90.214	Frequency Stability	

Opinion: The Equipment meets the intent specified by the requirements listed above.

Discussion: The manufacturer has attested that no modifications were made to the frequency determining circuitry of the radio module used in this family of products. The FCC previously approved this radio module. Engineering data was submitted by Herb Hainey, P.E, to support that this product has not changed and is still in compliance. The final compliance decision was based upon the fact that the FCC has already accepted the data. The engineering data is on file and available upon request.

Reference: Test data from previously submitted product FCC ID: CW21668-1 has been included in Exhibit O.

Operational Description Clarification

Opinion: The Equipment meets the intent specified by the requirements listed above.

Discussion: The operational description included as Exhibit M of the application, describes the RF module as having transmitter output power of .1 to 5 W. The manufacturer has attested that the output power of the RF module is set at the factory according to the information received in the following e-mail communication.

Reference: Exhibit M.

From: "Herb Hainey" <herbh@tgi.net>
To: "Dave Tolman" <dtolman@nwemc.com>
Subject: Re: CW21669-3 Application
Date: Tue, 22 Jan 2002 15:43:00 -0600
X-Mailer: Microsoft Outlook Express 4.72.3110.1

Please allow me a point of clarification. The radio modules we purchase for the 1669-3 and other low power applications such as CW21668-2 is a slightly modified version of the standard 5A204B-NB transceiver module. We have the factory

- 1) Remove final transistor Q6 and its heat sink
- 2) Install a 120pf capacitor between the input and output of the former transistor
- 3) Adjust the output power to 100mW with a supply voltage of 7.2 volts.

The manual and schematics for the 5A204B are supplied to us from the manufacturer for a standard module. We do not have a manual or schematic that shows the output transistor removed.

Herb Hainey
(360) 856-0836

FCC ID: CW21669-3

Exhibit A Technical Report
Exhibit B External Photos
Exhibit C Internal Photos
Exhibit D FCC ID Label and Location
Exhibit E Occupied Bandwidth
Exhibit F Schematics
Exhibit G Output Power
Exhibit H Spurious Radiated Emissions
Exhibit I Spurious RF Conducted Emissions
Exhibit J Test Setup Photos
Exhibit K Tune-up Procedure
Exhibit L User Manual
Exhibit M Operational Description
Exhibit N Frequency Stability
Exhibit O Transient Frequency Response
Exhibit P Cover Letter