

**Exhibit P: Cover Letter**

**FCC ID: CW21669-3**

## Information about the Client

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

## Equipment Under Test (EUT)

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

## 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 Hailey" <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 Hailey  
(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