

Exhibit A: Technical Report

FCC ID: CW21669-3

Measurement/Technical Report

General Information

Applicant:	Rothenbuhler Engineering Company, Inc.
Address:	PO Box 708, 2191 Rhodes Road
City, State, Zip	Sedro Woolley, WA 98284-0708
Test Requested By:	Herb Hainey
Model:	Test Box Model 1669-3
FCC ID:	CW21669-3
First Date of Test:	January 7, 2002
Last Date of Test:	January 8, 2002
Receipt Date of Samples:	January 7, 2002
Job Number	ROTH0001

Scope

Regulatory Authority	Federal Communications Commission
Approval Type	Original Grant
Equipment Type	Licensed, Non-Broadcast Station Transmitter
Rule Part	90.217(b)
Rule Exemptions	90.203(j)(3) because it is less than 500mW. 90.210(d) because the output power does not exceed 120 mW
Related Submittals or Grants	None

Report Information

Prepared By	Vicki Albertson, Technical Report and Documentation Manager Northwest EMC, Inc.
Signature	
Issued By	Northwest EMC, Inc. 22975 NW Evergreen Parkway, Suite 400 Hillsboro, Oregon 97124 Ph. (503) 844-4066 Fax (503) 844-3826
Report Number	ROTH0001
Date Issued	January 20, 2002

EUT Information

Frequency Range	150 – 174 MHz
Antenna Conducted Output Power	100 mW nominal – fixed at factory
Modulation	FSK. Data only, no voice
Channel Bandwidth	12.5 kHz
Data Rate(s)	1200 baud
Antenna(s)	Dipole
Supply Power	Battery operated only

Test Facility

The OATS and conducted measurement facility used to collect the radiated and conducted data is located at

Northwest EMC, Inc.
14128 339th Avenue SE
Sultan, WA 57049
(503) 844-4066
Fax: 844-3826

This site has been fully described in a report filed with the FCC (Federal Communications Commission), and accepted by the FCC in a letter maintained in our files.

Laboratory Accreditation

Northwest EMC, Inc. is recognized under the United States Department of Commerce, National Institute of Standards and Technology, National Voluntary Laboratory Accreditation Program (NVLAP) for satisfactory compliance with criteria established in Title 15, Part 285 Code of Federal Regulations. These criteria encompass the requirements of ISO/IEC Guide 25 and the relevant requirements of ISO 9002 (ANSI/ASQC Q92-1987) as suppliers of calibration or test results. NVLAP Lab Code: 200059-0.

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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