

CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

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NONCONFORMANCE REPORT

Project No. 20-01402-571

NCR No. 2002-04

PART 1: DESCRIPTION OF NONCONFORMANCE:

Blue M Temperature Controller Chart Recorder (serial Number 91E34523 Asset Number 004828) was found to be out of tolerance during a normally scheduled calibration.

Initiated by: Darrell S. Dunn

Date: 2/4/2002

PART 2: PROPOSED DISPOSITION AND CORRECTIVE ACTION

Disposition:

Accept data obtained in tests using this instrument as is.

Basis of Disposition:

The chart recorder on the Blue M temperature controller for the relative humidity chamber was found to be out of tolerance. Although the chart recorder was out of tolerance, the RTD measurement circuit was found to be in tolerance and the LED display used by laboratory personnel during tests indicated the correct wet and dry bulb temperatures. Because the chart recorder is not used in laboratory testing, the out of tolerance condition will not adversely affect the parameters measured during testing.

Action to Correct Nonconformance:

None. The chart recorder was adjusted by SwRI Calibration Lab personnel and is in tolerance. The calibration cycle for this instrument will be retained as is.

Target date for completion: 2/8/2002

Proposed by:  Darrell S. Dunn

Date: 2/4/2002

PART 3: APPROVAL

Element Manager:  Date: 2/6/2002

Director of QA:  Date: 2/6/2002

Comments/Instructions:

PART 4: CLOSE OUT

Comments: *No further action required.*

Verified by:  Date: 2/14/2002

Distribution: *QA records - orig*
All EMs
D. Dunn
S. Bossin
G. Masripo, G. Sagar, H. Garcia
M. Eustace
B. Wealing

SOUTHWEST RESEARCH INSTITUTE

6220 CULEBRA ROAD • POST OFFICE DRAWER 28510 • SAN ANTONIO, TEXAS, 78228-0510 • TEL (210) 522-5215 • FAX (210) 522-3692

OUT OF TOLERANCE ^{42/5}

To: Darrell Dunn, Div 20, And Bldg 57.

From: Walt Hill, Supervisor
Institute Calibration Laboratory

OUT OF TOLERANCE

Date: Jan. 22, 2002

Subject: Out-of-tolerance Notice

The purpose of this notice is to alert you of a condition, which may have caused erroneous measurements affecting safety or the quality of products or services your organization provides. The attached as-found readings are provided for your evaluation to determine if the instrument listed below had an impact and if further action is required.

When the as-found results are near the specification limit, +/- a margin less than the measurement uncertainty, it is not possible to state in-tolerance or out-of-tolerance with a 95% level of confidence. It is the Institute Calibration Laboratory policy that the client is made aware of this situation because the end-user is taking some of the risk that the instrument listed below may not meet the end-user measurement requirements.

Your review/evaluation should be conducted in accordance with your organizational quality policy and procedural requirements. If we can be of further assistance, please contact the Calibration Laboratory at 522-5215.

OUT OF TOLERANCE

Manufacturer: Blue M Electric Co Model: BM711

Description: Recorder Serial Number: 91E34523

Asset Number: 004828 User ID Number:

OUT OF TOLERANCE

Last Calibration: May 15, 2001

Date Received for Service: Jan. 09, 2002 Work Order Number: 444046662

Service Requested: Scheduled calibration

OUT OF TOLERANCE

Remarks: Ren # 1 did not meet specification. Recalibrated recorder. See attached data sheets.

OUT OF TOLERANCE



Southwest Research Institute
6220 Culebra Road
San Antonio, TX 78238
(210) 522-5215
Department of Quality Assurance
Calibration Laboratory

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Certificate of Calibration

22 January 2002

Issued to: DARRELL DUNN DIV20 B57
Manufacturer/Model: BLUE ELECTRIC CO. BM711100000011
Description: CHART RECORDER
Serial Number: 91E34523
Asset Number: 004828
Work Order Number: 444046662

This certifies the above item was calibrated in compliance with MIL-STD-45662A and ANSI/NCSL Z540-1-1994. Standards used in this calibration, described in the referenced calibration procedure with associated uncertainties or tolerances, are traceable to the National Institute of Standards and Technology (NIST). Supporting documentation relative to traceability is on file and is available for examination upon request. This certificate is not to be reproduced, except in full, without the written approval of the Southwest Research Institute Department of Quality Assurance Calibration Laboratory.

The uncertainty of the calibration was sufficient to determine that the item met the manufacturer's published specifications unless stated otherwise below.

Ambient Conditions: Temperature: 76.0 Degrees Fahrenheit Humidity: 40 % RH

Calibration Date: 22 Jan 02 **Calibration Procedure:** CL-9, 5/99

Condition as Received: OUT OF TOLERANCE

Condition as Returned: IN TOLERANCE

Remarks:

Approved by:


Walt Hill, Supervisor
Institute Calibration Laboratory

Measurements performed by:


Roger Dykstra, Technician