

CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

NONCONFORMANCE REPORT

Project No. 20.06002.01.322

NCR No. 2005-08

PART 1: DESCRIPTION OF NONCONFORMANCE:

Thermometer (Model: 14-983-10B, Serial Number: 183302, Asset Number: 002468) was found to be out of tolerance during a normally scheduled calibration.

Initiated by: Darrell S. Dunn

Date: 3/25/2005

PART 2: PROPOSED DISPOSITION AND CORRECTIVE ACTION

Disposition:

Accept data obtained in tests using this thermometer as is.

Basis of Disposition:

The thermometer was out of tolerance at temperatures above 100 °C. The thermometer has specified limits of +/- 0.5 °C. At 110 °C the thermometer had a measurement error of 2 °C. Corrosion tests have requirements of +/- 2 °C. An error of 2 °C will not have a significant effect on corrosion measurements.

Action to Correct Nonconformance:

The thermometer was be removed from service.

Target date for completion: 4/11/2005

Proposed by: Darrell S. Dunn

Date: 3/25/2005

PART 3: APPROVAL

Element Manager: [Signature]

Date: 3/28/2005

Director of QA: [Signature]

Date: 3/28/2005

Comments/Instructions:

PART 4: CLOSE OUT

Comments: No additional action is required.

Distribution:

Verified by: [Signature]

Date: 4/8/05

SOUTHWEST RESEARCH INSTITUTE

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

To: Darrell Dunn Div. 20, Bldg. 57
From: Walt Hill, Institute Calibration Laboratory Supervisor
CC: Rodney Weber, Institute Quality Assurance Manager
Date: Jan. 29, 01
Subject: Out-of-tolerance Notice

The purpose of this notice is to alert you of a condition, which could have caused erroneous measurements. The as-found readings are provided for your evaluation to determine if the instrument had any impact on your operations and if further action is required. If we can be of assistance, please contact the Calibration Laboratory at 522-5215.

Manufacturer: Fisher Thermometer **Model:** 14-983-10B

Description: Thermometer **Serial Number:** 183302

Asset Number: 2468 **User ID Number:** None

Last Calibration: June. 1, 01

Date Received for Service: Jan. 12, 01 **Work Order Number:** 444042029

Service Requested: Scheduled calibration

Remarks:

AS-FOUND DATA

PARAMETER OR FUNCTION	APPLIED OR NOMINAL VALUE	INSTRUMENT READING	INSTRUMENT ERROR	INSTRUMENT TOLERANCE
Temperature	108deg.C.	110deg.C.	2deg.C.	+/-0.5deg.C.

Page 1 of 1 **OUT OF TOLERANCE** Reviewed by *[Signature]*

CALIBRATION CHECK FORM

Date Calibrated _____ Work Order 444042029 Cal By UMorel

Procedure No./Date : CL-9, May99 Unit Under Test Thermometer

Mfg. Fisherbrand Model 14-983-10B SN 183302 AN 2468

STEP	FUNCTION OR RANGE	APPLIED	TOLERANCE		MEASURED VALUES		P/F
			MIN	MAX	AS FOUND	RELEASED	
4.1	Temperatre Calibration						
	Lowest value of Range + 2 Div.	-18°C 18.0°C > 18			-18°C		P ↓ F
	20% Range	6°C 6.0°C 1			6.2°C		
	40% Range	28°C 28.0°C			29.9°C		
	60% Range	58°C 58.0°C			58.5°C		
	80% Range	84°C 84.0°C			84.5°C		
	Highest value of Range -2 Div.	108°C 108.0°C			110°C		

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AS-FOUND DATA

PARAMETER OR FUNCTION	APPLIED OR NOMINAL VALUE	INSTRUMENT READING	INSTRUMENT ERROR	INSTRUMENT TOLERANCE
Temperature	108deg.C.	110deg.C.	2deg.C.	+/-0.5deg.C.

SOUTHWEST RESEARCH INSTITUTE

Calibration Laboratory

WORK ORDER

Processed by JIBARRA at 8:35:03AM on 1/12/01

||||| ||||| ||||| ||||| ||||| ||||| |||||

Work Order **444042029**

Arrived 1/12/01

Asset No. 002468 Manufacturer FISHER SCIENTIFIC

Model 14-983-10B

Instrument Type/Class THERMOMETER

Serial No. 183302

Accessory No. Calibration Procedure CL-9, MAY99

Location B57

Div/Client DIV20

Custodian DARRELL DUNN

Mail Stop B57

Tel. 6090

Charge/Project No. 20.00751.006

Delivered By / Telephone DARRELL DUNN/ X6090

IN4CAL

Special Instructions _____

WORK NOTES

Date	Hours	Remarks/Notes
		<u>Thermometer OOI @ 108°C Thermometer read 110°C. will</u>
		<u>reject thermometer.</u>
		<u>6/1/2000</u>

REPAIR PARTS

Date	Hours	Part Name	Part Number	Failure Description	Cost

WORK SUMMARY

Failure Description _____

Repair Action _____

Calibration Procedure CC-9, 5/99 Temp 74F Hum. 36%

Tech UMark Totals Cal Hours 1.0 Repair Hours _____ Parts Cost _____

Standards Used 219

Date Picked Up 1/31/2001

Picked Up By Darrell Dunn