

CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

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NONCONFORMANCE REPORT

Project No. 20.06002.01.322

NCR No. 2005-18

PART 1: DESCRIPTION OF NONCONFORMANCE:

Resistance Temperature Detector (RTD) (Model: Duro-Sense J-00, Serial Number: 322, Asset Number: 008422) was found to be out of tolerance during a normally scheduled calibration.

Initiated by: Darrell S. Dunn

Date: 4/22/2005

PART 2: PROPOSED DISPOSITION AND CORRECTIVE ACTION

Disposition:

Accept data obtained in tests using this RTD as is.

Basis of Disposition:

At a test temperature of 0.129 °C, the RTD measured 0.782 °C. Because the RTD has a limit of 0.30 °C, the RTD was out of tolerance. At 150 °C, the RTD was in tolerance. Corrosion tests where the test temperature is controlled and measured using RTDs, thermocouples or thermometers typically have limits of ± 2 °C. A temperature error of 0.65 °C, will not significantly affect test results.

Action to Correct Nonconformance:

The RTD was removed from service.



Target date for completion: 5/6/2005

Proposed by: Darrell S. Dunn

Date: 4/22/2005

PART 3: APPROVAL

Element Manager: _____

Date: _____

4/25/2005

Director of QA: _____

Date: _____

4/25/05

Comments/Instructions:

PART 4: CLOSE OUT

Comments:

No action needed

Distribution:

*D. Dunn
V. Join
2 records*

Verified by: _____



Date: _____

4/25/05

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SOUTHWEST RESEARCH INSTITUTE

6220 CULEBRA ROAD • POST OFFICE DRAWER 28510 • SAN ANTONIO, TEXAS, 78228-0510 • TEL (210) 522-5215 • FAX (210) 522-369

To: Darrell Dunn, Div20, B57

From: Walt Hill, Metrology Group Leader
Institute Calibration Laboratory

Date: Apr. 12, 2005

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.

Manufacturer: Duro-Sense **Model:** J-00

Description: Rtd **Serial Number:** 322

Asset Number: 8422 **User ID Number:**

Last Calibration: Apr. 12, 2004

Date Received for Service: Mar. 31, 2005 **Work Order Number:** 303063520

Service Requested: Scheduled calibration

Remarks: Out of tol. See Data Sheet

OUT OF TOLERANCE

Southwest Research Institute
Calibration laboratory
Measurement Report

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Work Order:	303063520	Mfr:	DURO-SENSE	Technician:	blt
Asset No:	008422	Model:	J-00	Cal Date:	12-Apr-05
Serial No:	322	Type:	RTD (385)		
Remarks:					
100 Ohm Din A Limited Cal - tested at 0.0 and 150 C Per 16 Nov 00 Memo					

Function/Range	Test Point	TI Reading	Difference	+/-Limit	+/-Uncertainty	Found/Left
Temp	° C	° C	° C	° C	° C	
	0.129	0.782	0.65	0.30	0.041	Fail
	150.03	150.84	0.82	1.05	0.041	Pass
Ohms	Ohms				Ohms	
	100.3057				0.0032	
	157.6405				0.0032	

