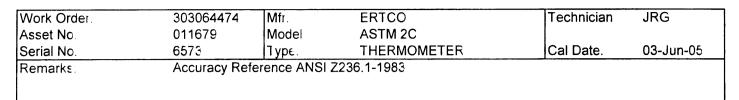
CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

NONCONFORMANCE REPORT

Project No. 20.06002.01.322	NCR No. 2005-26					
PART 1: DESCRIPTION OF NONCONFORMANCE: Four new thermometers were found to be out of tolerance dur. Ertco, ASTM 1C, Serial Number: 4359, Asset Number: 11678 Ertco, ASTM 1C, Serial Number: 6573, Asset Number: 11679 Ertco, ASTM 1C, Serial Number: 6584, Asset Number: 11680 Ertco, ASTM 1C, Serial Number: 6567, Asset Number: 11680	3))					
Initiated by: Darrell S. Dunn	Date: 6/10/2005					
PART 2: PROPOSED DISPOSITION AND CORRECTIVE	E ACTION					
Disposition: Scrap - the mercury thermometers will be properly disposed a obtained using these thermometers.	s chemical waste. No tests were conducted and no data was					
Basis of Disposition: Mercury separation occurs when the thermometers are incorre separation occurred during shipping and cannot be corrected.	ctly stored and does not occur during normal use. The mercury					
Action to Correct Nonconformance: The thermometers were not placed into service and placed in a	appropriate chemical waste containers.					
Proposed by: Darrell S. Dunn	Target date for completion: <u>6/16/2005</u> Date: 6/10/2005					
PART 3: APPROVAL Element Manager: Date: 6/10/2005 Director of QA: 2005 Comments/Instructions:						
PART 4: CLOSE OUT Comments: Levens of colibration system Lata has confurms these are machine remorely on service. Verified by: Le Buel Date: 6/17/05	Distribution: D. Dund V. Jain S. mahanly QArecords					

SOUTHWEST CRESTARCH AND POST OFFICE DRAWER 28510 SANAMONIO TEXAS 78228-0510 TEX (200752) Darrell Dunn, Div/20, B57 Walt Hill, Metrology Group Lea Institute Calibration Laborator ∃Jun. 03, 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 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 organizationality policy and procedural requirements. If we carribe of further assistance, a vit I vour organiza ienal contact the Calibration Laboratory at 522-5215. Manufacturer: Ertco User ID Number **Asset Number:** ast Calibration: Date Received for Service: Service Requested: Scheduled calibration Remarks: Out of tol. See Data Sheet T OF TOLERANCE OI FRANCE



Function/Range	Test Point	TI Reading	Difference	+/-Limit	+/-Uncertainty	Found/Left
Temperature	°C	°C	°C	°C	°C	Result
,	0.1	0.5	0.4	1.0	0.12	Pass
	75.0	75.2	0.2	1.0	0.12	Pass
	149.9	151.0	1.1	1.0	0.12	Fail
	225.3	226.3	1.0	1.0	0.12	Pass
	300.1	300.5	0.4	1.0	0.12	Pass
		FND O	F REPORT			

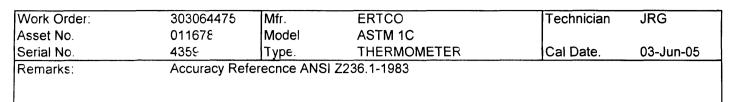
SOUTHWEST CRESTARCH AND INSTITUTE 6220 CULEBRA ROAD FOR OFFICE STANKER 28510 SANAMONIC EXASTRIZED 510 TEL (210) 522-36 Darrell Dunn, Div/20, B57 Walt-Hill, Metrology Group Lead nstitute Calibration Laborator Jun. 03, 2005 Date: Subject: Out-of-tolerance Notice The purpose of this notice is to alert you 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. near the specificatio 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 reviewevaluation should be conducted in accordance with your organizational quality policy and procedural requirements—if we cambe of further assistance, please contact the Calibration Laboratory at 522-5215. Manufacturer: Ertco **Asset Number:** 11680 User ID Number ast Calibration: Date Received for Service: Service Requested: Scheduled calibration Remarks: Out of tol. See Data Sheet T OF TOLERANCE

OUT OF TOLERANCE

Work Order.	303064473	Mfr.	ERTCO	Technician	JRG		
Asset No.	011680	Model	ASTM 2C				
Serial Nc.	6584	Турє.	THERMOMETER	Cal Date.	03-Jun-05		
Remarks	Accuracy Ref	Accuracy Reference ANSI Z236.1-1983					

Function/Range	Test Point	TI Reading	Differenc€	+/-Limit	+/-Uncertainty	Found/Left
Temperature	,C	,C	°C	,C	°C	Result
	0.1	1.8	1.7	1.0	0.12	Fail
	75.0	76.0	1.0	1.0	0.12	Pass
	149.9	151.0	1.1	1.0	0.12	Fail
	225.3	226.0	0.7	1.0	0.12	Pass
	300.1	300.5	0.4	1.0	0.12	Pass
		END O	F REPORT			

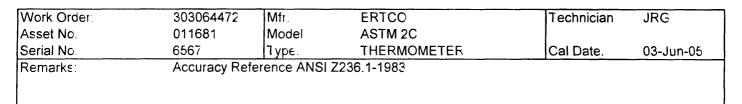
SOUTHWEST OFFICE DRAWER 28510 SANAMONION TEMAS (78228051) TEL (24075280615 • FAX (210) 522-36 Darrell Dunn, Div20, B57 Walt Hill, Metrology Group Le estitute Calibration Laborator Jun. 03, 2005⊐ Subject: Out-of-tolerance Notice The purpose of this notice is to alert you of a condition, which may have 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. 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 reviewevaluation should be conducted in accordance with young caniza quality soilcy and procedural requirements. If we carribe of further assistance, contact the Calibration Laboratory at 522-5215. Manufacturer: Ertco Serial Number Asset Number: 11678 User ID Number: Service Requested: Scheduled calibration OUT OF TOLERANCE TOI FRANCE



Function/Range	Test Point	TI Reading	Difference	+/-Limit	+/-Uncertainty	Found/Left
Temperature	°C	°C	°C	°C	°C	Result
	-19.9	-18.5	1.4	0.5	0.12	Fail
	0.1	1.8	1.7	0.5	0.12	Fail
	50.0	51.4	1.4	0.5	0.12	Fail
	100.0	101.0	1.0	0.5	0.12	Fail
	149.9	150.5	0.6	0.5	0.12	Fail
		END O	F REPORT			

SOUTHWEST CRESEARCH AND INSTITUTE 6220 CULEBRA ROAD POST OFFICE DRAWER 28510 SANAMOUND TOWNS 1/822-0550 TE (200752-0015 FAX (210) 522-36 Darrell Dunn, Div/20, B57 Malt Hill, Metrology Group Le estitute Calibration Laborator Jun. 03, 2005 Date: 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 mear the specification 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 reviewevaluation should be conflucted in accordance with your dreamzational quality policy and procedural requirements. If we cambe of further assistance, please contact the Calibration Laboratory at 522-5215. Manufacturer: Asset Number: 11681 ast Calibration: Service Requested: Scheduled calibration Remarks: Out of tol. See Data Sheet OUT OF TOLERANCE

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Function/Rang€	Test Point	TI Reading	Difference	+/-Limit	+/-Uncertainty	Found/Left
Temperature	°C	°C	°C	°C	°C	Result
	0.1	2.5	2.4	1.0	0.12	Fail
	75.0	76.5	1.5	1.0	0.12	Fail
	149.8	151.5	1.6	1.0	0.12	Fail
	225.3	227.0	1.7	1.0	0.12	Fail
	300.1	301.5	1.4	1.0	0.12	Fail
		END O	F REPORT			