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CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

NONCONFORMANCE REPORT

Project No. 20-1402-571

NCR No. 98-09

PART 1: DESCRIPTION OF NONCONFORMANCE

Orion Expandable Ion Analyzer model number EA 940 serial number 4274 ~~was~~ out of tolerance on 1900 and 1500mV ranges.

Initiated by: Darrell S. Dunn

Date: 6/19/98

PART 2: PROPOSED DISPOSITION AND CORRECTIVE ACTION

Disposition: Accept test results that used this instruments as-is

Basis of Disposition: Error for both ranges less than 0.3 mV. This translates to a pH error of less than 0.01 pH units. This error is not significant for pH measurements.

Action to Correct Nonconformance: Instrument was calibrated to manufacturers specifications.

Target date for completion: 7/2/98

Proposed by:  Darrell S. Dunn

Date: 6/19/98

PART 3: APPROVAL

Element Manager: N. Suckal

Date: 6/19/98

Director of QA: Shun Maluk

Date: 6/29/98

Comments/Instructions:

PART 4: CLOSE OUT

Comments: NONE

Distribution:

D. Dunn
ELEMENT MANAGERS
B. Sagan / H. Garcia
ORIGINAL TO NCR Folder

Verified by: Shun Maluk Date: 7/1/98



OUT OF TOLERANCE

Certificate of Calibration

14 May 1998

OUT OF TOLERANCE

Issued to: DARRELL DUNN DIV20 B57
 Manufacturer/Model: ORION EA 940
 Description: EXPANDABLE ION ANALYZER
 Serial Number: 4274
 Asset Number: 003325

OUT OF TOLERANCE

Environmental Conditions

Temperature: 73 Deg. F Humidity: 45 %RH

Calibration Information

Calibration was in accordance with requirements of MIL-STD-45662A and AISI/ASME 3540-1-1994. Measurements are traceable to the National Institute of Standards and Technology (NIST). This report may not be reproduced except in full without written approval of the originator. Inspection and test data are on file and available for inspection.

The uncertainty of the calibration was sufficient to determine that the instrument met the manufacturer's specification.

Calibration Date: 13 May 98 Calibration Procedure: CLCP-IA-001

Interval: 6 months Received: In Tolerance

Next Calibration Due: 13 Nov 98

Remarks: LIMITED CALIBRATION CALIBRATED FOR MILLIVOLTS ONLY!

Out of Tolerance Data

The unit was found to be in an out of tolerance condition as indicated below. A re-calibration should be made by the user to determine any adverse impact that may have occurred.

CHANNEL 1 & 2	APPLIED:	READING:	MIN.	MAX.	AS LEFT:
	-1900MV	-1900.3	-1899.8 THRU	-1900.2	-1900.1MV
	-1500MV	-1500.3	-1499.8 THRU	-1500.2	-1500.1MV

OUT OF TOLERANCE

Signature: *Walter M...
 Title: Cal. Tech*

Checked By: *[Signature]*
 Title:

OUT OF TOLERANCE