SOUTHWEST

RESEARCH

INSTITUTE

6220 CULEBRA ROAD • POST OFFICE DRAWER 28510 • SAN ANTONIO, TEXAS, 78228-0510 • TEL (210) 522-5215 • FAX (210) 522-36

To:

Don Bannon, Div 20, Ext 5118

From:

Walt Hill, Group Leader

Institute Calibration Laboratory

Date:

Sep 06, 2005

Subject:

Out-of-tolerance Notice

The as-found condition of the equipment listed below may have caused erroneous measurements affecting safety or quality of services your organization provides customers. The attached measurement report is provided for your evaluation to determine the impact and if further action is required.

When the as-found results are near the test point limits, +/- the measurement uncertainty, it is not possible to state in-tolerance or out-of-tolerance with a 95% level of confidence. Institute Calibration Laboratory policy is to notify the customer because there is a risk the instrument may not meet measurement requirements.

Your evaluation should be conducted in accordance with your organization's quality policy and procedural requirements. If you have any question or need additional assistance, please contact the Institute Calibration Laboratory at 522-5215.

Manufacturer: Orion

Model:

Description: Expandable lonanalyzer

Serial Number:

Asset Number:

5352

User ID Number:

Last Calibration: Aug 11, 2005

Date Received for Service: Mar. 14, 2001 Work Order Number: 303065338

Service Requested: Scheduled calibration

Remarks: Ch 2 out of tolerance, see data sheet. Requires repair.

Southwest Research Institute Calibration Laboratory Measurement Report

Work Order:	303065338	Mfr:	ORION	Technician:	blt				
Asset No:	005352	Model:	EA 920						
Serial No:	TV64A	Type:	ION ANALYZER	Cal Date:	06-Sep-05				
Remarks:					<u>-</u>				
LIMITED CAL: mVolts Only									

Function/Range_	Test Point	TI Reading	Difference	+/-Limit	+/-Uncertainty	Found
Ch 1	mVolts	mVolts	mVolts	mVolts	mVolts	Result
	1000.0	999.9	-0.1	1.0	0.12	Pass
	-1000.0	-1000.2	-0.2	1.0	0.12	Pass
Ch 2	mVolts	mVolts	mVolts	mVolts	mVolts	
	1000.0	865.8	-134.2	1.0	0.12	Fail
	-1000.0	-1157.3	-157.3	1.0	0.12	Fail
		END C	OF REPORT			

Don Bannon

From: Bob Trollinger [robert.trollinger@swri.org]

Sent: Tuesday, September 06, 2005 3:08 PM

To: don.bannon@swri.org Subject: Request to proceed.dot.doc

SOUTHWEST RESEARCH INSTITUTE®

To:

Don Bannon, Div 20, Ext 5118

From:

Institute Calibration Laboratory; Bob Trollinger

Date:

September 6, 2005

Subject:

Review of Work Request Number 303065338

The work you requested is held pending your review. Please review the information provided and respond with your approval or further instructions for work to proceed. Return a signed copy via mail to Cal Lab Bldg 64, FAX (522-4834) or reply to this email. If you have questions or require additional information please call 522-5215.

Unit Received: Aug 08, 2005

Work Requested: Cal

Manufacturer: Orion

Model: EX 920

Description: Expandable Analyzer

Serial Number: TV64A

Asset Number: 5352

User ID:

Cause of Review: CH 2 Out of Tolerance. Requires repair. Do you want the item repaired, limited to CH 1 only or returned AS IS?

If no relpy has been received by Sep 16, 2005 the unit will be returned without action.

Approved () Disapproved return unit as is ()

Instructions () As per Xihva He, Ph.D: if this can be repaired for \$500 or

less then proceed with repair. If the cost of repair is greater than \$500 then no repair is authorized. In that case only calibrate Ch. 1.

Authorized by $\, \underline{\mathcal{D}}$ on

Thank you for your timely response,

Nalt Hill, Metrology Group Leader nstitute calibration Laboratory

9/9/2005