INSTITUTE RESEARCH SOUTHWEST 6220 CULEBRA ROAD • POST OFFICE DRAWER 28510 • SAN ANTONIO, TEXAS, 78228-0510 • TEL (210) 522-5215 • FAX (210) 522-3692 LERANGE Darrell Dunn, Div 20, Bld 57 Walt Hill, Metrology Group Leader From: Institute Calibration Laboratory Mar. 20, 2003 Date: ERANCE Out-of-tolerance Notice Subject: 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 on 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: Model: 6104 **Serial Number:** 918697 **Description:** Torque Screwdriver **User ID Number:** 10126 **Asset Number:** UNKNOWN Last Calibration: Date Received for Service: Mar. 20, 2003 Work Order Number: 444052783 Service Requested: Scheduled calibration

Remarks: All points checked on unit indicated low. Please refer to data sheet

TOLERANG

Calibration Results

SwRI Calibration Laboratory

TI: PROTO 6104

TORQUE SCREWDRIVER

Serial No: 918697 Asset No. 010126

Note: All TAR's are greater than 4:1 unless noted on TAR column.

Calibration Procedure: HAND TORQUE TOOLS, NOV 2000 (0-100in.oz.)

Notes

Result: FAIL

Performed on: 3/17/03 at 16:49:15

Performed by: Perry Carpenter

Environment: Temp. 68.0°F Humid. 37 % Condition F/L: AS-FOUND

Procedure Completed:

Work Order#: 444052783

Standards Used								
Asset	Mfg	Model	Description	Cal. Date	Due Date			
007010	CDI	1001-0-TTTP	TORQUE TRANSDUCER	20-Dec-02	20-Mar-03			

Test Data					
STD	TRUE	T	EST INSTRUMEN	IT	ERROR in
PARAMETER	VALUE	READING	TOLERANCE	TI ERROR	(% of Tol)
20% F.S.					
20.000in/lb	S	17.760	1.2in/lbs	-2.24in/lbs	
20.000in/lb	S	17.390	1.2in/lbs	-2.61in/lbs	217
20.000in/lb	S	18.260	1.2in/lbs	-1.74in/lbs	145
60%F.S.					
60.000in/lb	S	54.450	3.6in/lbs	-5.55in/lbs	
60.000in/lb	S	55.480	3.6in/lbs	-4.52in/lbs	126
60.000in/lb	S	57.860	3.6in/lbs	-2.14in/lbs	59
100%F.S.					
100.000in/l	bs	93.980	6in/lbs	-6.02in/lbs	100
100.000in/l		91.580	6in/lbs	-8.42in/lbs	140
100.000in/l		91.610	6in/lbs	-8.39in/lbs	140
Result of Operator Evaluation					FAIL
Clockwise					pue
Result of Operator E				PASS	
100% FS					

End of Test Data

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

From:

Institute Calibration Laboratory

Date:

March 25, 2003

Subject:

Returned Equipment

The equipment described below is being return for the reason(s) indicated. If we can be of further assistance, please contact the Calibration Laboratory at 522-5215.

Unit Received: March 10, 2003 Work Requested: Scheduled calibration

Description: Torque Screwdriver

Manufacturer: Proto

Model: 6104

Serial Number: 918617

Asset Number: 10126

User ID Number:

Reason for return without calibration or repair:

- (X) Requested by the owning organization.
- Required accessories or items listed in remarks were not provided. ()
- () Lack of technical data.
- () Parts are no longer available.
- Lack of support by manufacturer. ()
- () Other

Remarks: Unit indicates out of tolerance at all points checked. All readings were low.

Walt Hill, Metrology Group Leader Institute Calibration Laboratory

CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

NONCONFORMANCE REPORT

Project No. 20.06002.01.081	NCR No. 2003-03				
PART 1: DESCRIPTION OF NONCONFORMANCE: Proto Torque Screwdriver (Serial Number 918697, Asset numbe calibration.	r 10126) was found to be out of tolerance during initial				
Initiated by: Darrell S. Dunn	Date: 3/27/2003				
PART 2: PROPOSED DISPOSITION AND CORRECTIVE ACTION					
Disposition: Return torque screwdriver to vendor and replace with torque screwdriver from another manufacturer. No data are affected by the out of tolerance condition					
Basis of Disposition: Torque screwdriver is new and should not have been received in the out of tolerance condition. Because this was an initial calibration performed immediately after the torque screwdriver was received, the torque screwdriver was not used in any tests.					
Action to Correct Nonconformance: Torque Screwdriver was returned to vendor.					
·	Target date for completion: 4/4/2003				
Proposed by: Darrell S. Dunn	Date: 3/27/2003				
PART 3: APPROVAL					
Element Manager: Date: 3 28 03					
Director of QA: Comments/Instructions: Date: 3/15/05 Date: 4/1/2003					
PART 4: CLOSE OUT	Distribution:				
comments: No further action required. This was discovered during the initial certification and the screwdzives and not been used	D. Duwa M. Ehustrom QA Disector				
during any testing activities. Verified by: March R. Throstom Date: 4/2/03	Orig To NCR Folder B. Sman, P. Mackin				



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MEMORANDUM

To:

SwRI Calibration Lab

From:

Darrell S. Dunn

Date:

April 7, 2003

Subject:

Removal of Equipment from the Calibration Recall List

The following equipment are no longer within tolerance and need to be removed from the calibration recall list. A copy of this memorandum will be placed in the Division 20 calibration records.

Manufacturer	Model	Serial Number	Asset Number
Unknown	25 x 0.01 mm	20-M-1	002186
Proto	6103	#2	001443
Proto	6104	918697	010126
Fisher	14-983-10B	0323004	002042

Please contact me at extension 6090 if you have any questions.