

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 number 10126) was found to be out of tolerance during initial calibration.

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: [Signature] Date: 3/28/03

Director of QA: [Signature] Date: 4/1/2003

Comments/Instructions:

PART 4: CLOSE OUT

Comments: *No further action required. This was discovered during the initial certification and the screwdriver had not been used during any testing activities.*

Verified by: [Signature] Date: 4/2/03

Distribution:

D. Dunn
M. Ehnstrom
QA Director
All Element managers
Orig To NCR Folder
B. Sagar, P. Mackin

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, Div 20, Bld 57**From:** Walt Hill, Metrology Group Leader
Institute Calibration Laboratory**Date:** Mar. 20, 2003**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: Proto **Model:** 6104**Description:** Torque Screwdriver **Serial Number:** 918697**Asset Number:** 10126 **User ID Number:****Last Calibration:** UNKNOWN**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.

Calibration Results

SwRI Calibration Laboratory

TI: PROTO 6104
TORQUE SCREWDRIVER
Serial No: 918697
Asset No. 010126

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:

WorkOrder#: 444052783

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:

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 PARAMETER	TRUE VALUE	----- READING	TEST INSTRUMENT TOLERANCE	----- TI ERROR	ERROR in (% of Tol)
20% F.S.					
20.000in/lbs		17.760	1.2in/lbs	-2.24in/lbs	187
20.000in/lbs		17.390	1.2in/lbs	-2.61in/lbs	217
20.000in/lbs		18.260	1.2in/lbs	-1.74in/lbs	145
60%F.S.					
60.000in/lbs		54.450	3.6in/lbs	-5.55in/lbs	154
60.000in/lbs		55.480	3.6in/lbs	-4.52in/lbs	126
60.000in/lbs		57.860	3.6in/lbs	-2.14in/lbs	59
100%F.S.					
100.000in/lbs		93.980	6in/lbs	-6.02in/lbs	100
100.000in/lbs		91.580	6in/lbs	-8.42in/lbs	140
100.000in/lbs		91.610	6in/lbs	-8.39in/lbs	140
Result of Operator Evaluation Clockwise					FAIL
Result of Operator Evaluation					PASS <i>PC</i>
100% FS					

End of Test Data

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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

Manufacturer: Proto Model: 6104 Description: Torque Screwdriver

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