

# CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

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## NONCONFORMANCE REPORT

Project No. 20-01402-571

NCR No. 2002-06

### PART 1: DESCRIPTION OF NONCONFORMANCE:

Proto Torque Screwdriver (Serial Number 314047, Asset number 004092) was found to be out of tolerance during a normally scheduled calibration.

Initiated by: Darrell S. Dunn



Date: 7/15/2002

### PART 2: PROPOSED DISPOSITION AND CORRECTIVE ACTION

#### Disposition:

Accept data obtained in tests using this screwdriver as is. Replace Torque Screwdriver

#### Basis of Disposition:

The initiation and repassivation of crevice corrosion on Ni-base alloys at elevated temperatures is not sensitive to the applied torque used to attach Teflon crevice forming washers. Higher torque causes increased creep of the Teflon crevice forming washer. Tests conducted at the CNWRA have used applied torque in the range of 40 to 60 in-oz. Applied torque to test cell hardware is not a factor in the outcome of tests as long as the test cell does not leak. Compression of the O-ring under lid of the test cells and sealing of the test cells would not be affected by the out of tolerance condition.

#### Action to Correct Nonconformance:

Torque Screwdriver was replaced.

Target date for completion: 7/19/2002

Proposed by: Darrell S. Dunn



Date: 7/15/2002

### PART 3: APPROVAL

Element Manager: 

Date: 7/15/02

Director of QA: 

Date: 7/16/02

Comments/Instructions:

### PART 4: CLOSE OUT

Comments:

*No further action required.*

Distribution:

*all EMs  
Technical Director  
D. Dunn*

Verified by: 

Date:

*7/10/02*

**OUT OF TOLERANCE**

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**To:** Darrell Dunn, Div.20, Bldg. 57

**From:** Walt Hill, Metrology Group Leader  
Institute Calibration Laboratory *WHS*

**OUT OF TOLERANCE**

**Date:** Mar. 19, 2002

**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.

**OUT OF TOLERANCE**

**Manufacturer:** Proto **Model:** 6104

**Description:** Torque Screwdriver **Serial Number:** 314047

**Asset Number:** 4092 **User ID Number:** None

**OUT OF TOLERANCE**

**Last Calibration:** June 4, 01

**Date Received for Service:** Dec. 12, 2001 **Work Order Number:** 444046414

**Service Requested:** Scheduled calibration

**OUT OF TOLERANCE**

**Remarks:** No before data obtainable, Torque screwdriver inoperative. Removing Torque Screwdriver from current recall as per Custodian.

**OUT OF TOLERANCE**