

LABORATORY NOTEBOOK

NOTEBOOK NO. _____

CONTINUED FROM NOTEBOOK NO. _____ CONTINUED TO NOTEBOOK NO. _____

ASSIGNED TO:

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DATE NOTEBOOK COMPLETED _____ NUMBER OF PAGES FILLED IN _____

NOTES:

Project # 20.14002.01.191

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COPY *802* *10/18/07*
915

INITIAL ENTRIES

Scientific Note Book: # 915

Issued to: Luis Ibarra

Issue Date: 10/18/07

Printing Period: 6 months

Project Title: Drip Shield-Waste Package Mechanical Interaction Experiment

Project Staff: Luis Ibarra and Karol Hricisak

This scientific notebook is maintained in accordance with CNWRA QA, procedure QAP-001, Rev 8 Ch 1. The notebook documents the second phase of the drip shield-waste package mechanical interaction experiment.

Qualification requirements for this project are: Structural analysis (linear, non-linear, and dynamic), numerical modeling. Expertise of the staff participating in this project is as follows:

Luis Ibarra: Seismic Analysis, Structural analysis, and numerical modeling


03/28/08

PAG

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The second phase of the drip shield-waste package mechanical interaction experiment has been cancelled to apply the staff resources to the precicensing and licensing activities of the potential geologic repository. On June 4, 2008, L. Ibarra and K. Chiang verified that the material acquired for the second phase of the experiment was properly stored.

The material was stored in Building 57, Room Corrosion Lab. L111 of SwRI. The different samples identified in this room are the following:

- A) "Waste Package Outer Shell"¹ samples made of Alloy 22.
 - 2 tested samples (identified as S-1 and S-2)
 - 15 untested machined samples (S-1 through S7)
 - 1 non-machined sample

The samples include the following information:

HT # 2277-6-3120
mo# 27-44 5669-01
ASME SB-575
UNS# N06022

B) "Plate Samples Representing a Drip Shield Component with Different Contact Angles."

- 2 tested samples with contact angles of 45° (S-1 and S-2)
- 7 untested machined samples with contact angles of 45° (S-1 through S7)
- 3 untested machined samples with contact angles of 15° (S-1 through S3)
- 6 raw block samples (S-1 through S6)

The samples include the following information:

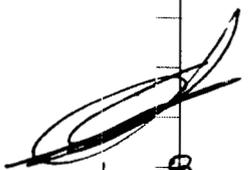
Ti-5
ASTM B265
A21A (Heat number)

C) "Steel Waste Package Holder" made of stainless steel.

- 2 samples (S-1 and S-2)

D) "Steel Holder for Titanium Grade 5" made of stainless steel.

- 2 samples (S-1 and S-2)


06/04/2008

¹ The samples names are based on Appendix A of the "Experimental Tests on Drip Shield-Waste Package Mechanical Interaction—Progress Report." CNWRA. September 2007