



CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES QUALITY ASSURANCE SURVEILLANCE REPORT

PROJECT NO.: 20.06002.01.031

REPORT NO.: 2004-06

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SURVEILLANCE SCOPE: Geology and Geophysics activities including: Igneous Activity and Structural Deformation and Seismicity July 2003-March 2004

REFERENCE DOCUMENTS: QAP-001, Scientific Notebook Control, QAP-002, Review of CNWRA Documents, Reports and Papers, QAP-004, Surveillance Control

STARTING DATE: 03/21/04
QA REPRESENTATIVE: Mark R. Ehnstrom

ENDING DATE: 04/2/04

PERSONS CONDUCTING TEST/EXAM/ACTIVITY: Larry McKague, John Stamatakos, Britt Hill, Brandi Winfrey, Sara Gonzalez, Deborah Waiting, and Shannon Colton

SATISFACTORY FINDINGS:

Surveillance started with a review of Quality Requirements Application Matrix (QRAMs) applicable to the Igneous and Structural Deformation activities. After this review a discussion was held with L. McKague to further define current project activities and staff members responsible for those activities. A second discussion was held with J. Stamatakos. Specific project activities were discussed along with discussions on software and consultants. Based on these two discussions the following activities were performed:

Geology/Geohydrology Deliverable Reviews - The following documents were reviewed and were determined to be compliant with QAP-002 requirements:

- A Physical Analog Model of Extensional Deformation in the Yucca Mountain Region (Q200310270002)
- Key Uncertainties in Calculation Volcanic Risk for the Proposed Yucca Mountain Radioactive Waste Repository, Nevada USA (Q200307080003)
- Review of Seismic and Geotechnical Hazards Assessments for Mixed Oxide Fuel Fabrication Facility, Savannah River, South Carolina (Q200403020001)
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Software Status: The Software Validation Test Plans/Reports for GMS Sys 4.04.08C, Oasis Montaj, Earth Vision 5.1 and Olympus DISS 1.0 are in the review process. EZ Frisk V4.4 is being replaced with version 6.1. Work continues on the validation process for Mag-Parallel V1.0 and Ashplume-P V1.0. Additional evaluation is being performed on Earth Vision 7.5.

Scientific Notebooks: Discussions were held with B. Hill specifically on notebooks 555 and 561. These notebooks were not turned in for review during the last recall in September 2003. Dr. Hill has made repeated attempts with Ms. LeJune and Mr. Phillips to obtain the notebooks with no success (see Recommendations).

Notebooks 609 and 644 belonging to Sara Gonzalez were reviewed and were found to be compliant with procedural requirements.

The notebooks being used by consultants Mary Beth Gray and Ken Ridgeway are still active and were also determined to be compliant with procedural requirements during the last recall.

Scientific Notebook 360 assigned to D. Waiting is in the process of being closed.

UNSATISFACTORY FINDINGS: None
NONCONFORMANCE REPORT NO.: N/A
CORRECTIVE ACTION REQUEST NO.: N/A

ATTACHMENTS: None

RECOMMENDATIONS/ACTIONS: Continued effort should be made in obtaining notebooks 555 and 561 from Ms. LeJune and Mr. Phillips.

APPROVED: 
CENTER DIRECTOR OF QUALITY ASSURANCE

DATE: 4/2/2004

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CNWRA QA DIRECTOR
ORIGINATOR
PRINCIPAL INVESTIGATORS: J. Stamatakos, B. Hill
ELEMENT MANAGER: L. McKague
B. Sagar