



**GEOSCIENCES AND ENGINEERING DIVISION
QUALITY ASSURANCE
SURVEILLANCE REPORT**

PROJECT NO.:20.06002.01.161,
.352, .362, .372

REPORT No.:2005-14

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SURVEILLANCE SCOPE: Performance Assessment (PA) Element Activities

REFERENCE DOCUMENTS: QAP-001, Evaluation of Potential for Conflict of Interest; QAP-001, Scientific Notebook Control; QAP-002, Review of CNWRA Documents, Reports and Papers; QAP-004, Surveillance Control; QAP-005, Quality Indoctrination and Training; QAP-007, Professional Personnel Qualification; QAP-013, Quality Planning; and TOP-016, Field Collection of Geologic Samples

START DATE: 07/6/05

END DATE: 07/15/05

QA REPRESENTATIVE:
Mark R. Ehnstrom

PERSONS CONDUCTING ACTIVITY: J. Winterle, O. Pensado, R. Benke, O. Pevotko, R. Nes, P. LaPlante, D. Hooper, G. Wittmeyer, and M. Juckett

SATISFACTORY FINDINGS:

The following PA Integrated Subissues (ISI's) were evaluated during the surveillance: Biosphere Characterization, Support Regulatory Framework, Methology and Overall System Performance, Total Performance Assessment, Redistribution of Radionuclides in Soil, and Public Outreach. Quality Requirements Application Matrixes (QRAM's) for the ISIs were reviewed and confirmed for applicability to current project activity. No QRAM had been prepared for the Support Regulatory Framework ISI, but this task is very general and has very low activity.

Biosphere Characteristic activities include literature searches and report reviews. Data and parameters supplied to the TPA code are being reviewed as part of the major ongoing TPA review. No other code development or research activities are being performed in this ISI.

Support Regulatory Framework has no current research activities being performed and no code is being developed. This ISI is in early, preparatory stages and may have increased activity after the Environmental Protection Agency standard changes.

Methology and Overall System Performance (MOSP) activities are concentrated on testing associated with the Department of Energy's GoldSim total system performance assessment program. These testing activities compare GoldSim results with TPA results and comparisons of the GoldSim results and current DOE documents. MOSP activities are also performing analysis on different scenarios proposed by the DOE.

Total Performance Assessment activities will be evaluated during software surveillance scheduled in August.

Redistribution of Radionuclides in Soil (RRS) upcoming field activities will measure the amount of dust generated in certain scenarios. Requirements of Technical Operating Procedure TOP-016, Field Collection of Geologic Samples were discussed with project staff, as well as information required in field notebooks. A report on ash remobilization is about to start the review process. No critical measuring and test equipment or consultants or subcontractors were used in the development of this report. Software used to develop data in the report included ArcGIS 8.3, Arc/INFO 7.0.2, and ArcView 3.2, which are under control and have been validated.

Public Outreach activities include staff input to the NRC Communication Plan and a milestone involving creating a brochure that will help explain 10 CRF Part 63 to the general public. The text for this brochure is currently in the review process. No scientific notebooks or consultants were used in Public Outreach activities.

Professional Personnel Qualification files were reviewed for those Geosciences and Engineering staff contacted during this surveillance as well as for several consultants contributing to PA tasks; D. Steed, C. Scherer, and J. Menchaca. This review verified QA program indoctrination, evaluation of conflict of interest, and training in procedures appropriate to their job activities. The records for J. Menchaca did not identify assignment of TOP-018, Development and Control of Scientific and Engineering Software. While assignment of TOP-018 to Mr. Menchaca may not be essential for him to perform his assigned tasks, he was assigned TOP-018 during the surveillance nevertheless.

The following scientific notebooks used in PA activities were reviewed and determined to be satisfactory: 303, 355, 396E, 493, 534, 573E. In addition, completed scientific notebook 565E was closed during the surveillance.

UNSATISFACTORY FINDINGS: None

NCR NO.:N/A

CAR NO.: N/A

ATTACHMENTS: None

RECOMMENDATIONS/ACTIONS:

Consider issuing a QRAM for the Support Regulatory Framework ISI.

APPROVED: *K. L. Sauer*

DATE: 7/20/2005

DISTRIBUTION:

ORIGINAL—QA RECORDS

ASSISTANT DIRECTOR: S. Mohanty

MANAGER: J. Winterle

B. Sagar, W. Patrick