CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES
QUALITY ASSURANCE
SURVEILLANCE REPORT

PROJECT NO.: 20.06002.01.330	REPORT NO.: 2004-20	PAGE 1 OF 2

SURVEILLANCE SCOPE: Mining, Geotechnical & Facility Engineering activities including: Repository Design and Thermal - Mechanical Effects March 2004-November 2004

REFERENCE DOCUMENTS: QAP-001, Scientific Notebook Control; QAP-002, Review of CNWRA Documents, Reports and Papers; QAP-004, Surveillance Control; QAP-005, Quality Indoctrination and Training; and QAP-007, Professional Personnel Qualification.

STARTING DATE: 11/12/04 ENDING DATE: 11/30/04
QA REPRESENTATIVE: Mark R. Ehnstrom MRE

PERSONS CONDUCTING TEST/EXAM/ACTIVITY:
A. Chowdhury, S. Hsiung, A. Ghosh, D. Gute, B. Dasgupta, G. Ofoegbu, and G. Adams

SATISFACTORY FINDINGS:
Surveillance started with a review of Quality Requirements Application Matrix (QRAMs) applicable to the Mining, Geotechnical, & Process Engineering group. After this review, a discussion was held with A. Chowdhury to identify individual areas of responsibility and activities within the group.

Deliverable Reviews
The following recently completed documents were reviewed and determined to be compliant with QAP-002 requirements:

- Preliminary Draft Technical Evaluation of the Integrated Safety Analysis Summaries for the Westinghouse Uranyl Nitrate Bulk Storage and Wastewater Treatment Systems
- Numerical Simulation of Thermal-Hydrological and Thermal-Mechanical Process Observed at the Drift-Scale Heater test at Yucca Mountain, Nevada
- Review of Seismic, Tornado, and High-Wind hazards and Structural Design Assessments of Louisiana Energy Services Notional Enrichment Facility, Lee County, New Mexico
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Software Status and Activity:
The surveillance found that multiple codes are being used by group members. Codes currently used include ABAQUS, UDEC, and SAP 2000. ABAQUS and UDEC have been validated while SAP 2000 validation is planned by 12/31/2004.

Scientific Notebooks:
Only one Scientific Notebook has new entries since the last Scientific Notebook recall. Entries into Scientific Notebook No. 612-8E were reviewed and were found to be compliant with QAP-001 requirements. No laboratory or field activities were being conducted by this organization.

Consultants/Subcontractors:
Professional Personnel Qualification files for consultants performing activities in the Mining, Geotechnical, and Facility Engineering were reviewed for compliance to QAP-005, "Quality Indoctrination and Training," and QAP-007, "Professional Personnel Qualification". The files were found to be complete and current. The files reviewed were for D. Pomerening, S. Green, A. Garabedian, D. Thorne, and N. Eisenburg.

UNSATISFACTORY FINDINGS: None

NONCONFORMANCE REPORT NO.: N/A

CORRECTIVE ACTION REQUEST NO.:N/A

ATTACHMENTS: None

RECOMMENDATIONS/ACTIONS: None

APPROVED: _____
CENTER DIRECTOR OF QUALITY ASSURANCE

DATE: 11/30/2004

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ORIGINATOR
PRINCIPAL INVESTIGATORS: A. Ghosh, D. Gute, S. Hsiung, B. Dasgupta, G. Ofoegbu, G. Adams
ELEMENT MANAGER: A. Chowdhury
B. Sagar