



# CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES QUALITY ASSURANCE SURVEILLANCE REPORT

PROJECT NO.: 20-1402-159

REPORT NO.: 99-13

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**SURVEILLANCE SCOPE:** Surveillance Activity on the Spent Fuel Projects Phases

**REFERENCE DOCUMENTS:** Spent Fuel Projects Office Operations Plan; CNWRA Program Manager's Periodic Report on Activities of the Center for Nuclear Waste Regulatory Analysis for Period 8-FY 1999; QAP-004, Surveillance Control Procedure

**STARTING DATE:** 5/26/99

**ENDING DATE:** 5/27/99

**QA REPRESENTATIVE:** Mark R. Ehnstrom

**PERSONS CONDUCTING TEST/EXAM/ACTIVITY:** A. Chowdhury

**SATISFACTORY FINDINGS:** The CNWRA Spent Fuels Project Office (SFPO) is a multi-faceted operation, which includes the issuance of many different evaluation reports and reviews. Among the individual phases of research and analysis are:

- Three Mile Island Unit 2 Independent Spent Fuel Storage Installation
- Dry Transfer System
- Private Fuel Storage Facility
- Centralized Interim Storage Facility
- Savannah River Site Aluminum-Based Spent Fuel

Discussions were held with A. Chowdhury on activities associated with the Spent Fuels Projects Office (SFPO). The discussions first concentrated on computer software issues. The Quality Requirements Application Matrix for the individual phases in the SFPO identified the potential use of the software code titled ABAQUS Version 5.6. The CNWRA Master Directory of Scientific & Engineering Software currently contains ABAQUS Version 5.8. Dr. Chowdhury explained that no project work had been performed using the ABAQUS code, and when the time arises, Version 5.8 would be the appropriate software for use. During additional reviews in this surveillance, it was noted in the CNWRA Program Manager's Periodic Report that ongoing activities were being performed with the software RISKIND. At this time these activities are only literature searches to evaluate international parameters to calculate dose from a loss of containment at a spent fuel storage facility. If future activities require the use of this code for obtaining, presenting, or manipulating data, RISKIND will be placed under appropriate TOP-018 controls, according to Dr. Chowdhury.

Individual Personnel Qualification files and QA indoctrination files for project personnel and two consultants, Dr. T. Kranthammer and Dr. S. Abt, were reviewed. No unsatisfactory comments resulted from this review.

The following is a list of deliverable milestone documents reviewed during this surveillance for compliance to QAP-002, Review of CNWRA Documents, Reports and Papers. Again, no unsatisfactory comments resulted from the review:

Q199807020002- Seismic Ground Motion At Three Mile Island Unit 2 Independent Spent Fuel Storage Installation Site In Idaho National Engineering And Environmental Laboratory- Final Report

Q199812150006- Operations Plan for Technical Assistance to the Spent Fuel Project Office on NWPA-Related Projects

Q199903030001- Safety Evaluation Report of Three Mile Island Unit 2 Independent Spent Fuel Storage Installation Safety Analysis Report -Final Report

**UNSATISFACTORY FINDINGS:** None

**NONCONFORMANCE REPORT NO.:** N/A

**ATTACHMENTS:** None

**RECOMMENDATIONS/ACTIONS:** None

APPROVED:

CENTER DIRECTOR OF QUALITY ASSURANCE

DATE:

5/31/99

**DISTRIBUTION:**

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