



CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES QUALITY ASSURANCE SURVEILLANCE REPORT

PROJECT NO: 20-1402-671	REPORT NO: 98-12	PAGE <u>1</u> OF <u>1</u>
SURVEILLANCE SCOPE: Repository Design and Thermal-Mechanical Effects		
REFERENCE DOCUMENTS: Quality Assurance Application Matrix; CNWRA HLW Operations Plans, Rev 10 Chg 2; QAP-002 Review of CNWRA Documents, Reports and Papers; QAP-004 Surveillance Control Procedure		
STARTING DATE: July 16, 1998		ENDING DATE: July 16, 1998
QA REPRESENTATIVE: Mark R. Ehnstrom <i>MRE</i>		
PERSONS CONDUCTING TEST/EXAM/ACTIVITY: Simon Hsiung and Goodluck Ofoegbu		
<p>SATISFACTORY FINDINGS: A discussion was held with Mr. Hsiung to gather information on project activities. A letter report had recently been issued to the NRC concerning Repository Design and Thermal-Mechanical Effects (Milestone Number 20-1402-671-810; Report Number Q 199806080003). Review of the referenced reports documentation file showed that the proper reviews had been performed and the documentation initiated during the review process showed the process was performed in accordance with procedure QAP-002 titled Review Of CNWRA Documents, Reports And Papers. Discussions associated with the data gathering activities found that software programs ABACUS and UDEC were used. Reviews found that these programs are currently under software controls identified in TOP-18 titled Development And Control of Scientific And Engineering Software. Scientific Notebook No.196 was reviewed during the surveillance. The review found the notebook to be complete, easy to follow and understand, and meeting the requirements of QAP-001, Scientific Notebook Control.</p>		
UNSATISFACTORY FINDINGS: None		
NONCONFORMANCE REPORT NO: N/A		
ATTACHMENTS: None		
RECOMMENDATIONS/ACTIONS: None		
<p>APPROVED: <i>Simon Hsiung</i> CENTER DIRECTOR OF QUALITY ASSURANCE</p> <p>DATE: <u>8/13/98</u></p>	<p>DISTRIBUTION: ORIGINAL - CENTER QA DIRECTOR QA Records ORIGINATOR <i>M. EHNSTROM</i> PRINCIPAL ENGINEERS ELEMENT MANAGERS, B. Sagar, <i>H. GARCIA</i></p>	