CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES
QUALITY ASSURANCE
SURVEILLANCE REPORT

PROJECT NO:20-5708-570	REPORT NO:96-08	PAGE 1 OF 1

SURVEILLANCE SCOPE: Container Life and Source Term KTI Activities

REFERENCE DOCUMENTS: HLW Operations Plans, Quality Requirements Application Matrices

STARTING DATE: May 30, 1996 ENDING DATE: May 31, 1996

QA REPRESENTATIVE: R.D. Brient

PERSONS CONDUCTING TEST/EXAM/ACTIVITY: N. Sridhar, G. Cragnolino, S. Mohanty, D. Dunn, P. Angell

SATISFACTORY FINDINGS:

Task 1—Technical Assistance: Corrosion and material degradation model development activities have been conducted and an empirical equation for EBSPAC is being developed. An intermediate milestone report was recently delivered which covered earlier laboratory investigations and data analysis. The review documentation for this deliverable was examined and found acceptable. To date, scientific notebooks have not been used on this task.

Task 2—Code Development—EBSPAC: A software requirements description was prepared and delivered to NRC as a milestone in March 1996. A revision to the SRD will be prepared to address the NRC comments. Scientific Notebook #170 documents the EBSPAC development, and was reviewed. This notebook is in electronic form, and was initiated in April 1996, so has not yet been captured in hard copy. The notebook had thorough initial and in-process entries. EBSPAC is currently in the design and development phase, but no definite dates for subsequent software control milestones could be identified yet.

Task 3—Applied Technical Investigations: Laboratory investigations from the former EBSER research project are being continued in materials stability, long term potentiostatic tests, galvanic corrosion, and microbial influenced corrosion. In the corrosion lab, scientific notebooks #103, 157, and 149 were reviewed and found to document specimens, reagents and solution preparation, and test equipment. A few solutions were identified which expired during the month, and were removed during the surveillance. Test equipment calibrations were also verified (see attachment). In the microbial lab, notebooks #134 and 138 were reviewed, finding the same good level of documentation. Notebook #138 documents preparation of media and of cultures, while notebook documents experiments of the Container Life and Near-field KTI applied technical investigations.

The Scientific Notebooks reviewed were all acceptable, and the few minor errors corrected.

Personnel qualifications and QA indoctrination documents were verified for N. Sridhar, G. Cragnolino, S. Mohanty, D. Dunn, P. Angell, A. Stone, and Y.-M. Pan.

UNSATISFACTORY FINDINGS: None

NONCONFORMANCE REPORT NO: None

ATTACHMENTS: None

RECOMMENDATIONS/ACTIONS: None

APPROVED: R Brient
for CNWRA DIRECTOR OF QUALITY ASSURANCE

DATE: 6/3/96

DISTRIBUTION:
ORIGINAL - CNWRA QA DIRECTOR
ORIGINATOR
TASK LEADERS - G. Cragnolino, S. Mohanty
ELEMENT MANAGER - N. Sridhar
B. Sagar, H. Garcia

CALIBRATIONS VERIFIED
SURVEILLANCE 96-08

Item	Serial Number
Corrosion Lab:	
Mercury Thermometers	183305, 183302, 183301, 183303
Satorious Balance	10704379
Orion 720A	5885
Accumet 950	3340
Load cell and amplifier	314431
YSI Model 35	900014379
Keithley 6517	0599913
Fluke 8050A	5005110
Microbial Lab:	
Mercury Thermometer	0323007
Keithley 617	531418, 0579628
Keithley 614	467374
Keithley 485	509163
Orion 940	2330
Orion 920	S001A