CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES
QUALITY ASSURANCE
SURVEILLANCE REPORT

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SURVEILLANCE SCOPE: Total System Performance Assessment KTI Activities

REFERENCE DOCUMENTS: HLW Operations Plans, Current PMPR

STARTING DATE: 7/29/97 ENDING DATE: 7/30/97

QA REPRESENTATIVE: R. D. Brient

PERSONS CONDUCTING TEST/EXAM/ACTIVITY: R. Baca, S. Mohanty, R. Janetzke, M. Jarzemba, J. Weldy, M. Ahola and consultants J. Bogan, G. Rice, R. Rice

SATISFACTORY FINDINGS:

Task 1, Technical Assistance

Model Abstraction: Work was ongoing in the development of the issue resolution status report. No calculations are involved, so no scientific notebook is being employed.

Comparison of TPA and RIP Data Sets: A report covering this topic was submitted last month. Since no calculations or other analysis were involved, no scientific notebook was used.

Drift Stability: A report closing out this activity was issued last month. Scientific notebooks 179 and 206 were used, and have been turned over for archiving in QA records, along with data tapes of calculations (i.e., input and output files). Review documentation for the final report was examined, and found to be in order. Review criteria for calculation verifications were added by the Programmatic Reviewer, and the Technical Reviewer added calculation checks to his review.

EBSPAC Version 1.1 Technical Description and User's Manual: Scientific Notebook #170 was used to document development of this stand-alone module. Entries for software design-checking tools, installation tests, and comparisons to the results from TPA were documented.

ASHPLUME Version 1.0: Scientific Notebook #164 documents the development of this code, and #221 documented its testing. Entries for hand calculation verifications were noted, as well as detailed input and output data files. This work was completed in February, 1997, but updated with some revised information last month.

Galvanic Coupling Auxiliary Analysis: This activity involves conducting a number of calculations in which input corrosion conditions are varied. Initial and in-process entries, which include input and output files and discussion, are documented in Scientific Notebook #213.

Task 2, TPA Code Development

Version 3.1 of TPA is under development, both in terms of correction of problems with Version 3.0, and in terms of iterative improvements. Around 33 Software Problem/Change Reports (SPCRs) have been initiated on TPA Version 3.0. In addition, less significant changes are being made, documenting them in Scientific Notebook #170. The configuration management tool SCCS is being used to track all of the changes, both major (via SPCR) and minor. Testing of the code is being done by a number of persons, with problems encountered generally addressed by the SPCR and changes are tracked by the SCCS.

All Scientific Notebooks reviewed appeared to contain the required information in sufficient detail. Several review documentation packages for the deliverables were examined and were found to contain the required information. Reviews appeared to comply with QAP-002.

Personnel qualifications and QA indoctrination were verified for the individuals listed above.

UNSATISFACTORY FINDINGS: none

NONCONFORMANCE REPORT NO: none

ATTACHMENTS: none

RECOMMENDATIONS/ACTIONS: none

APPROVED: _____
CENTER DIRECTOR OF QUALITY ASSURANCE

DATE: 8/1/97

DISTRIBUTION:
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