



CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES QUALITY ASSURANCE SURVEILLANCE REPORT

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PROJECT NO: 20-5708-771

REPORT NO: 96-11

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SURVEILLANCE SCOPE: Revision to EPA and NRC Regulations KTI Activities

REFERENCE DOCUMENTS: HLW Operations Plans, Quality Requirements Application Matrices

STARTING DATE: July 15, 1996

ENDING DATE: July 29, 1996

QA REPRESENTATIVE: R.D. Brient 

PERSONS CONDUCTING TEST/EXAM/ACTIVITY: P. Mackin, M. Jarzempa, R. Manteufel, P. LaPlante

SATISFACTORY FINDINGS:

This KTI has a single task involving calculations performed to evaluate the proposed EPA standard. Two IMs and an AI have been prepared documenting these analyses which will provide input for a NUREG. Activities conducted so far include calculations of dose due to volcanic events, an initial approach to defining reference biospheres, and relative hazard of high-level waste over long time periods, IMs 5708-771-610 and -620, and AI 5708-771-615, respectively.

For IM 20-5708-771-610, Scientific Notebook #164 was used to document some of the calculations (see recommendations below). Much of the basis of the report was from CNWRA 95-018. No notebook was used for CNWRA 95-018, but the calculations were fully documented in the report. For IM 20-5708-771-620, no notebook was necessary because no data or calculations were involved. For AI 20-5708-771-615, the report, along with clarification provided in the technical review records, provide the documentation (no Scientific Notebook was needed).

Review records for the three reports were reviewed and found acceptable.

Personnel qualifications and QA indoctrination documents were verified for P. Mackin, R. Manteufel, R. Baca, M. Jarzempa, P. LaPlante, and D. Thorne.

UNSATISFACTORY FINDINGS: none

NONCONFORMANCE REPORT NO: none

ATTACHMENTS: none

RECOMMENDATIONS/ACTIONS: (i) Scientific Notebook #164 did not adequately describe the method (i.e., software) used to perform the calculations. The notebook was annotated to include this information. (2) With the prospect of a dose based EPA standard, dose calculations have been performed using GENII-S (this was also identified in a CAR covering several examples in the July 23-26, 1996 audit). It is anticipated that GENII-S may be used in regulatory reviews, so the Quality Requirements Application Matrix for this task should be revised, and GENII-S should be added to the active software listing for control in accordance with TOP-018.

APPROVED: 

CNWRA DIRECTOR OF QUALITY ASSURANCE

DATE: 7/30/96**DISTRIBUTION:**

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