



# CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES QUALITY ASSURANCE SURVEILLANCE REPORT

14

PROJECT NO.: 20-5708-460

REPORT NO.: 96-13

PAGE 1 OF 1

SURVEILLANCE SCOPE: Igneous Activity KTI Activities

REFERENCE DOCUMENTS: HLW Operations Plans, Quality Requirements Application Matrices, Current Program Managers' Periodic Report

STARTING DATE: September 4, 1996

ENDING DATE: September 9, 1996

QA REPRESENTATIVE: R.D. Brient *RDB*

PERSONS CONDUCTING TEST/EXAM/ACTIVITY: L. McKague, B. Hill, C. Connor, B. Henderson, P. La Femina, S. Magsino, M. Miklas

### SATISFACTORY FINDINGS:

**Task 1: Technical Assistance:** The primary activities are the bounding analysis for igneous activity performance models and preparation of the annual report. An internal report on modeling small volume basaltic eruptions using a modified Suzuki Ash Dispersal Model (P. La Femina) was reviewed. It appears to have sufficient detail in objectives, methods, input and output data to serve as a scientific notebook. This would also capture this documentation in the QA records (see recommendations below).

**Task 2: Code Development - PVHVIEW:** A Software Requirements Description has been drafted which will guide development of the code. A preliminary review of the SRD indicates that it meets TOP-018 requirements. Scientific Notebook #113 was reviewed which documents the preliminary development of the code.

**Task 3: Applied Technical Investigations:** Work in this task primarily involves collecting and data reduction of ground magnetic surveys. Electronic Notebook #115 was reviewed and found to adequately describe objectives, methods, data, and results. The notebook entry dates reflect the dates of printing, rather than the dates that the entries were actually made (see recommendations below). Scientific Notebooks #056 and #088 were reviewed, and found to adequately describe objectives, methods, and results. The sample custody log was reviewed and found to properly document sample and subsample identification and location. Samples from the August 1996 field activities have not yet been entered.

Personnel qualifications and QA indoctrination documents were verified for L. McKague, B. Hill, C. Connor, B. Henderson, S. Magsino, M. Conway, P. La Femina, and M. Miklas.

**UNSATISFACTORY FINDINGS:** Scientific Notebook #088 refers to measurements taken during the 8/95 field activities in Russia, however the methods and instrumentation requirements are not described in this or another notebook. Upon further investigation, it was determined that detailed information concerning this field activity has not yet been compiled into a notebook, but remain a collection of loose pages and notes. NR 96-08 was initiated to address this condition.

NONCONFORMANCE REPORT NO.: 96-08

For SEISM 1.1, a nonconformance report is not required. The condition has been identified in CAR 96-01 during investigation of the extent of the conditions. Corrective action for CAR 96-01 will address action required for SEISM 1.1 as well as for other affected software.

ATTACHMENTS: NCR 96-08

RECOMMENDATIONS/ACTIONS: to be addressed in NCR 96-08 and CAR 96-01.

APPROVED: *[Signature]*  
CNWRA DIRECTOR OF QUALITY ASSURANCE

DATE: 9/10/96

### DISTRIBUTION:

ORIGINAL - CNWRA QA DIRECTOR  
ORIGINATOR  
TASK LEADER - B. Hill, C. Connor  
ELEMENT MANAGER - L. McKague  
*EMS / Technical Director*

# CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

15

## NONCONFORMANCE REPORT

Project No. 20-5708-463

NCR No. 96-08

### PART 1: DESCRIPTION OF NONCONFORMANCE

Scientific Notebook entries have not yet been prepared to fully document the August 1995 field activities in Russia. In particular, Scientific Notebook #088 mentions "calibrated dial thermometer", altimeter, thermocouple, triple beam balance, "electret 5050," CO<sub>2</sub> detectors, and Radon detectors however, the measurement parameters, methods, instrumentation and accuracy requirements, calibration status, and the specific instrument identification required by QAP-001 have not been documented in that or other notebooks.

Initiated by: R. Brient

Date: 9/9/96

### PART 2: PROPOSED DISPOSITION AND CORRECTIVE ACTION (L. McKague, due 9/20/96)

Disposition:

Basis of Disposition:

Action to correct nonconformance:

Target date for completion: \_\_\_\_\_

Proposed by:

Date:

### PART 3: APPROVAL

Element Manager: \_\_\_\_\_ Date: \_\_\_\_\_

Director of QA: \_\_\_\_\_ Date: \_\_\_\_\_

Comments/Instructions:

### PART 4: CLOSE OUT

Comments:

Verified by:

Date:

Distribution: L. McKague

B. Hill

C. Connor

B. Sagar