

Department of Energy

Office of Civilian Radioactive Waste Management Yucca Mountain Site Characterization Office P.O. Box 98608 Las Vegas, NV 89193-8608

WBS 9.1.2 OA: N/A

MAY 1 8 1994

Larry R. Hayes Technical Project Officer for Yucca Mountain Site Characterization Project U.S. Geological Survey 101 Convention Center Drive Suite 860 Las Vegas, NV 89109

ISSUANCE OF SURVEILLANCE RECORD YMP-SR-94-046 RESULTING FROM YUCCA MOUNTAIN QUALITY ASSURANCE DIVISION (YMOAD) SURVEILLANCE OF U.S. GEOLOGICAL SURVEY (USGS) (SCP: N/A)

Enclosed is the record of Surveillance YMP-SR-94-046 conducted by the YMQAD at the University of Nevada, Reno facilities in Reno, Nevada, April 26-28, 1994.

The purpose of the surveillance was to determine the status of audits performed by USGS personnel on participants performing work to quality-related procedures in support of the Yucca Mountain Site Characterization Project.

No Corrective Action Requests were issued as a result of this surveillance. This surveillance is considered completed and closed as of the date of this letter. A response to this surveillance record and any documented recommendations is not required.

If you have any questions, please contact Robert B. Constable at 794-7945.

Richard E. Spence, Director

Yucca Mountain Quality Assurance Division

Enclosure: Surveillance Record

YMOAD:RBC-3475

YMP-SR-94-046

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urveillance	No.	YMP-S	R-94-46	5

## OFFICE OF RADIOACTIVE WASTE MANAGEMENT U.S. DEPARTMENT OF ENERGY WASHINGTON, D.C.

QUALITY ASSURANCE SURVEILLANCE RECORD					
SURVEILLANCE DATA					
<sup>1</sup> ORGANIZATION/LOCATION: U.S. Geological Survey (USGS) at University of Nevada Reno (UNR)	<sup>2</sup> SUBJECT: USGS Internal Audit of UNR Seismicity Studies of Yucca Mountain Site, Nevada.		<sup>3</sup> DATE: 4/26 - 28, 1994		
*SURVEILLANCE OBJECTIVE:  To determine the status of audits performed by USGS personnel on participants performing subcontract work to quality related procedures in support of Yucca Mountain site characterization.					
<sup>5</sup> SURVEILLANCE SCOPE: To verify the adequacy of USGS personnel and USGS support personnel to perform meaningful audits on participants working to USGS procedures enforced by USGS contracts 1434-93-C-45070 and 1434-94-C-40104, governing studies of earthquakes and other ground motion at Yucca Mountain, Nevada.			SURVEILLANCE TEAM: Team Leader:  R. B. Constable Additional Team Members:  None		
PREPARED BY:  R. B. Constable Bloodie 4/25/94 Surveillance Team Leader Date CONCURRENCE:  A/25/94 Date  CONCURRENCE:  4/25/94 Date					
SURVEILLANCE RESULTS					
BASIS OF EVALUATION/DESCRIPTION	ON OF OBSERVATIONS	S:			
See Page(s)2					
10 SURVEILLANCE CONCLUSIONS:					
See Page(s)3					
11COMPLETED BY:  Surveillance Team Leader	<u>4 · 2 <b>q</b> · <b>94</b></u> Date	12APPROVED BY: QA Division Dir	## 5/17/44 ector Date		

## (Block 9 Continued) BASIS OF EVALUATION/DESCRIPTION OF OBSERVATIONS:

During the surveillance, it was observed that the following formalities took place:

- A definitive audit checklist was utilized.
- b. A pre-audit meeting was held.
- c. An audit closure meeting was held.

The following areas were reviewed by the auditors during the course of the audit:

- a. Actual contract
- b. Organization
- c. Personnel Qualification
- d. Position Description
- e. Training
- f. Procedures
- g. Measuring and Test Equipment Qualification
- h. Software Interface
- i. Procurement Control
- j. Data technical Review
- k. Data Management
- 1. Procurement Control
- m. Document Control
- n. Records Control
- o. Equipment Maintenance
- p. Control of Non-conforming Equipment

## Personnel contacted during the surveillance:

- T. Mendez-Vigo, Lead Quality Implementation Specialist, Science Applications International Corporation (SAIC)
- P. Sheaffer, Quality Implementation Specialist, SAIC
- J. Ziemba, Quality Assurance Specialist/Lead Auditor, SAIC
- J. Brune, Director, Seismic Laboratory, UNR
- D. DePolo, Seismologist, UNR
- C. Middlebrooks, Assistant Software Analyst, UNR
- W. Nicks, Research and Design Engineer, UNR
- D. Von Seggern, Seismic Network Manager, UNR
- T. Chaney, Quality Assurance Manager, USGS
- B. Parks, Associate Chief of Sociological Studies Program USGS

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## (Block 10 Continued) SURVEILLANCE CONCLUSIONS:

It was not the intent of this surveillance to determine the validity of data presented nor the adequacy of UNR to fulfill contractual requirements as identified by contract, but only to determine if USGS can and does perform meaningful audits on participants performing quality related work to USGS procedures. It was felt that the questions represented during the audit, both in scope and in depth were adequate to determine and support the lead auditors conclusions and final summary that UNR meets all contract requirements. USGS will prepare a formal audit report for publication at a later date.