



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

NOV 29 1994

Les E. Shephard  
Technical Project Officer  
for Yucca Mountain  
Site Characterization Project  
Sandia National Laboratories  
P.O. Box 5800, Mail Stop 1333  
Albuquerque, NM 87185

VERIFICATION OF CORRECTIVE ACTION AND CLOSURE OF CORRECTIVE ACTION REQUEST (CAR) YM-94-088 RESULTING FROM YUCCA MOUNTAIN QUALITY ASSURANCE DIVISION (YMQAD) AUDIT YMP-94-09 OF SANDIA NATIONAL LABORATORIES (SCPB: N/A)

The YMQAD staff has verified the corrective action to CAR YM-94-088 and determined the results to be satisfactory. As a result, the CAR is considered closed.

If you have any questions, please contact either Robert B. Constable at (702) 794-7945 or Kenneth T. McFall at (702) 794-7280.

Richard E. Spence, Director  
Yucca Mountain Quality Assurance Division

YMQAD:RBC-994

Enclosure:  
CAR YM-94-088

cc w/encl:

~~V. G. Spraul~~ NRC, Washington, DC  
S. W. Zimmerman, NWPO, Carson City, NV  
R. R. Richards, SNL, Albuquerque, NM, M/S 1333  
M. C. Brady, SNL, Las Vegas, NV  
J. H. Hines, OQD, AL

cc w/o encl:

W. L. Belke, NRC, Las Vegas, NV  
D. G. Sult, YMQAD/QATSS, Las Vegas, NV

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

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CORRECTIVE ACTION REQUEST (CONTINUATION PAGE)

A. Remedial Action: None, as explained below.

Work Agreement

Individual Responsible for Revising WA

WA-0040

N/A - this is an upper-tier WA, not a WA that governs the specific conduct of scientific investigation.

WA-0131

N/A - this is an upper-tier WA, not a WA that governs the specific conduct of scientific investigation.

WA-0095

No scientific investigation activities involving scientific notebooks was ever performed under this WA and the need for the support called for by the WA has ended. The WA has been closed.

WA-0096

N/A - this is a WA that directs calculational analysis, not scientific investigation.

WA-0097

N/A - this is a WA that governs development and validation of a computer program, not scientific investigation.

B. Extent of the Deficiency: Although, of the 5 WAs cited as examples, only one (WA-0095) suffered from the stated deficiency, all currently active lower-tier WAs will be screened to determine if they: a) govern the conduct of scientific investigation activities, and b) do not cite related TPs and do not address "elements 'a' through 'k'" from QAIP 1-5. If additional instances of the cited deficiency are found, SNL YMP CARs will be generated to initiate action to remedy the condition. (Responsible Individual: D. R. Hawkinson; Anticipated Completion Date: November 4, 1994)

C. Not required.

D. Action to Preclude Recurrence:

1. QAIP 1-5 will be revised to clearly indicate that the cited requirements apply to lower-tier, detailed, work-activity-instruction Work Agreements, rather than upper-tier WAs. (Responsible Party: J. C. Friend; Anticipated Due Date: November 15, 1994, for revision approval).
2. If the results of the investigative action in B, above, indicates no additional occurrences of the deficiency, no other actions will be taken. If any additional occurrences are discovered, information that clarifies and emphasizes the cited requirement will be disseminated to all YMP scientific investigation Task Leaders by means of a "Quality Assurance Advisory." (Responsible Individual: R. R. Richards; Anticipated Completion Date: November 18, 1994 [if any action needed]).
3. A standard checklist for QA review of Work Agreements, which includes criteria based on the cited requirements, will be developed. (Responsible Individual: J. V. Voigt; Anticipated Completion Date: October 31, 1994)

  
for L. E. Shephard  
SNL YMP Technical Project Officer

10/13/94 LTR. SHEPARD TO SPENCE

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**CORRECTIVE ACTION REQUEST**

|   |  |   |  |
|---|--|---|--|
| 1 Controlling Document<br>QAIP 01-05, Revision 07   |  | 2 Related Report No.<br>YMP-94-09   |  |
| 3 Responsible Organization<br>SNL   |  | 4 Discussed With<br>R. Richards   |  |
| 5 Requirement:<br><br>QARD DOE/RW-0333P, Revision 0, Section 5.2.2, A through I, specifies the "Content of Implementing Documents." SNL QAIP 01-05, Revision 07, Section 4.1 states in part that if Work Agreements (WAs) govern scientific investigation work, then the WA needs to reference Technical Procedures (TPs) that address elements a. through k., or if a scientific notebook is used without TPs, then elements a. through k. need to be addressed in the WA. |  |   |  |
| 6 Adverse Condition:<br>Contrary to the above requirements, WAs are not referencing TPs or if the Scientific Notebook method is used, the WAs are not addressing the required Section 4.1, Step 1, Note 2, No. 2, a. through k. elements. A review of the WAs produced numerous examples of the deficient condition.<br><br>Some examples of this condition include: WA-0040, WA-0131, and WA-0095, -0096 and -0097.  |  |   |  |
| 9 Does a Significant Condition Adverse to Quality exist? Yes ___ No <u>X</u><br>If Yes, Check One: <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E   |  | 10 Does a stop work condition exist? Yes ___ No <u>X</u> ; If Yes - Attach copy of SWO<br>If Yes, Check One: <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C |  |
| 13 Response Due Date:<br>20 Working Days From Issuance  |  |   |  |
| 11 Required Actions: <input checked="" type="checkbox"/> Remedial <input checked="" type="checkbox"/> Extent of Deficiency <input checked="" type="checkbox"/> Preclude Recurrence <input type="checkbox"/> Root Cause Determination  |  |   |  |
| 12 Recommended Actions:   |  |   |  |
| 7 Initiator<br>James George <i>Kenneth McFall for</i> 9/18/94   |  | 14 Issuance Approved by:<br>QADD <i>[Signature]</i> for Date 9/22/94  |  |
| 15 Response Accepted<br>QAR <i>Kenneth McFall</i> Date 11/2/94  |  | 16 Response Accepted<br>QADD <i>[Signature]</i> for Date 11-3-94  |  |
| 17 Amended Response Accepted<br>QAR _____ Date _____  |  | 18 Amended Response Accepted<br>QADD _____ Date _____   |  |
| 19 Corrective Actions Verified<br>QAR <i>Kenneth McFall</i> Date 11/23/94   |  | 20 Closure Approved by:<br>QADD <i>[Signature]</i> Date 11/28/94  |  |

**ENCLOSURE**

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**CORRECTIVE ACTION REQUEST (CONTINUATION PAGE)**

VERIFICATION STATEMENT FOR CAR YM-94-088

On November 22, 1994, R. Richards of SNL hand delivered documentation to YMQAD concerning CAR YM-94-088. Included in the documentation was:

- \* An SNL Quality Assurance Advisory concerning the content of Work Agreements
- \* Work Agreement Review Checklist
- \* Interim Change Notice 01 to QAIP 1-5, Establishing Work Agreements
- \* SNL Corrective Action Request 95-03 concerning Work Agreements

Examination of this documentation showed that all committed to actions have taken place to allow closure of CAR YM-94-088. This CAR is considered closed.

  
\_\_\_\_\_  
Kenneth T. McFall, QAR

11/23/94  
Date