

Department of Energy

Yucca Mountain Site Characterization **Project Office** P. O. Box 98608 Las Vegas, NV 89193-8608 MAR 3 0 1993

WBS 1.2.11 OA: N/A

Les E. Shephard Technical project Officer for Yucca Mountain Site Characterization Project Sandia National Laboratories P.O. Box 5800 Organization 6302 Albuquerque, NM 87185

VERIFICATION OF CORRECTIVE ACTION AND CLOSURE OF CORRECTIVE ACTION REQUEST (CAR) YM-93-023 RESULTING FROM YUCCA MOUNTAIN QUALITY ASSURANCE DIVISION (YMQAD) AUDIT YMP-93-03 OF SANDIA NATIONAL LABORATORIES

The YMQAD staff has verified the corrective action of CAR YM-93-023 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 Donald J. Harris at (702) 794-7356.

AD: Ken Hooks Utr. Enel.

Richard E. Spence, Director Yucca Mountain Quality Assurance Division

YMOAD:RBC-3439

Enclosure: CAR YM-93-023

cc w/encl: K. R. Hooks, NRC, Washington, DC S. W. Zimmerman, NWPO, Carson City, NV R. R. Richards, SNL, 6319, Albuquerque, NM J. F. Schelling, SNL, Las Vegas, NV R. L. Maudlin, MACTEC, Las Vegas, NV C. J. Henkel, EEI, Las Vegas, NV cc w/o encl:

J. H. Hines, OQD, AL J. W. Gilray, NRC, Las Vegas, NV N. J. Brogan, SAIC, Las Vegas, NV B. J. Verna, YMP, NV A. V. Gil, YMP, NV

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		DACTIVE WAS	F CIVILIAN STE MANAGEI ENT OF ENER(TON, D.C.	MENT	THIS IS A RED STAM CAR NO.: YM-93-023 DATE: 12/8/92 SHEET: 1 OF 2 QA
<u></u>	CO	RRECTIVE AC	CTION REQUE	ST	
1 Controlling D				2 Related	•
3 Responsible	Revision 00		Discussed With	YMP-93-	
SNL	Organization	-	. Richards		
5 Requirement:	•				
SNL QAIP 1	8-1, Revision 00, Qual	ity Assurance Av	dits, Paragraph	4.1, Schedu	ling, states in part:
Step 1	PI for audits shall performing quality-a identifying contract documented.	ffecting activit	ies at least ann	ually. Thi	s evaluation.
Step 2	PI for audits shall, on an annual basis, develop an audit schedule for internal and external audits and periodically review and revise the audit schedule.				
	Appendix A, Audit Sc	heduling			
Step 3	Contractor audits sh	all be scheduled	and performed of	n a trienni	al basis, when
 The S R. R. 17, 1 Trogr Labor Contrary t SNL a calib calib quali Does a signifi adverse to qu if Yes, Circle Required Act Recommend SNL should 		f SNL contractor awkinson, subjec n evaluation of ration services, ats 2 and 4 al years 1993 an ystem Corporatio w England Resear s of WBS 1232713 10 Does a stop YesNo_X If Yes, Circle Extent of Deficience	t: Proposed SNL New England Reset e.g., MTS System and 1992 failed to bon, ESSCO Laborate tch, who is current and work condition exist tch; if Yes - Attach co One: A B C I Cy [X] Preclude R	audit sche arch (worki ms Corporat include th ory and Ome ntly perfor ? oppy of SWO D decurrence ified by co	<pre>dule, dated October ng under SNL QA ion, ESSCO e suppliers of ga, who provide ming 11Response Due Date: 20 Working Days from Issuance □ Root Cause Determinatio ntractors working</pre>
QAR () 19 Corrective A	<u>R. I. M. Hold</u> ccepted_ esponse Accepted Marris	Date 12/8/90 Date Date 2/19/93	14 Issuance Appro 2_ OADD 11 16 Response Acco QADD 18 Amended Best QADD 4 20 Closure Approx	prieg ponse Accept	Date 2/15/9 Date ed Date 2/23/9
OAR AL	Marris	Date 3/23/93	3 QADD/9	- <u>Sph</u> ENI	LOSURE REV.08

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

8	CAR NO .:	YM-93-02	3
	DATE:	12/8/92	
	SHEET:	2 OF	2
		QA	

CORRECTIVE ACTION REQUEST (Continuation Page)

5 Requirements (continued)

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supplemented by annual evaluations.

Step 4

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At least annually (triennial for contractors) or at least once during the life of the activity affecting quality, whichever is shorter, an audit of the adequacy and effectiveness of the QA program shall be performed.

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Response to CAR YM-93-023

<u>Note</u>: Careful reading of the Requirements in comparison with the cited Adverse Condition reveals that no violations of the Requirements occurred (e.g., Step 1 refers to "SNL contractors"; the cited contractors are not SNL contractors). Nevertheless, the QARD seems to indicate that participants are responsible for evaluating the implementation of QA at subtier contractors where the upper-tier contractor works to the participant's QA Program. Therefore, the following response is provided.

1. Corrective Action Response for CAR# YM-93-023.

1A. Remedial Action

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An evaluation of the nature of the work being conducted by the SNL QA Audit Schedule for FY93 may be revised to include audits of NER calibration services subcontractors:

- MTS Systems Corporation
- ESSCO Laboratory
- Omega Corporation

1B. Investigative Action

The extent of this CAR deficiency will be determined by identification of subtier contractors who:

- are subcontractors to a SNL contractor who works under the SNL QA Program, and
- are performing or will perform work subject to the QA Program.

The nature of the work of those subtier contractors will be evaluated. If appropriate, they will be added to the SNL QA Audit Schedule.

1C. Root Cause Determination N/A this CAR.

1D. Corrective Action to Preclude Recurrence

SNL Procedure 4-1, "Procurement" and Appendix A Procurement Planning Checklist, Section 3 standard clause (F) will be clarified to require all contractors provided with procurement responsibility to inform SNL of the names of subtier contractors used and methodology of qualification.

SNL Procedure 18-1, "Quality Assurance Audits," will be revised to call for evaluation of subcontractors of SNL contractors who work under the SNL QA Program for determination of whether they must be audited.

2. 1A,B,C and D R. R. Richards

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Estimated completion date for 1A, 1B, and 1D - October 1, 1993

Response Approved:

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Manager, YMP Management Dept.

YM-93-023

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Department of Energy

Yucca Mountain Site Characterization Project Office P. O. Box 98608 Las Vegas, NV 89193-8608 WBS 1.2.11 QA: N/A

FEB 0 5 1993

Les E. Shephard Technical Project Officer for Yucca Mountain Site Characterization Project Sandia National Laboratories P.O. Box 5800 Organization 6302 Albuquerque, NM 87185

EVALUATION OF RESPONSE TO CORRECTIVE ACTION REQUEST (CAR) YM-93-023 RESULTING FROM YUCCA MOUNTAIN QUALITY ASSURANCE DIVISION (YMQAD) AUDIT YMP-93-03 OF SANDIA NATIONAL LABORATORIES (SNL)

The YMQAD staff has evaluated the response to CAR YM-93-023. The response has been determined to be unsatisfactory based on the following:

- 1. YMQAD is in disagreement with the note contained in the SNL response. The note infers that no requirements were violated. New England Research (NER) is a contractor currently working to and under the SNL quality assurance (QA) program. Consequently, NER is responsible to perform in accordance with the contract, similar to augmented staff under the direct management of SNL. Therefore, SNL is responsible to assure that their QA program is being implemented effectively through internal and external audits or annual performance evaluations of SNL's suppliers.
- 2. Response 1a, Remedial Action is not clearly stated.
- 3. The Quality Assurance Requirements Document DOE/RW-0214, Element 16, basic requirement requires conditions adverse to quality to be corrected as soon as practical. It appears that eight months for the limited corrective action is not timely, especially when it does not include the performance of an audit of those suppliers place on the audit schedule as a result of this CAR.
- 4. The Office of Civilian Radioactive Waste Management Quality Assurance Administrative Procedure 16.1, Corrective Action, Attachment III, requires the name of the assigned individual and the anticipated completion date for each phase, e.g., remedial, investigative and action to preclude recurrence to be entered on the CAR response.

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Les E. Shephard

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An amended response is required to be submitted to this office within ten working days of the date of this letter. Send the original of your response to Nita J. Brogan, Science Applications International Corporation, Las Vegas, Nevada. If an extension to the due date is necessary, it must be requested in writing, with appropriate justification, prior to that date.

If you have any questions, please contact either Robert B. Constable at (702) 794-7945 or Donald J. Harris at (702) 794-7356.

Richard E. Spence, Director Yucca Mountain Quality Assurance Division

YMQAD:REC-2270

Enclosure: CAR YM-93-023

cc w/encl:

K. R. Hooks, NRC, Washington, DC

S. W. Zimmerman, NWPO, Carson City, NV

R. R. Richards, SNL, 6319, Albuquerque, NM

R. L. Maudlin, MACTEC, Las Vegas, NV

F. J. Schelling, SNL, Las Vegas, NV

cc w/o encl:

J. H. Hines, OQD, AL

J. W. Gilray, NRC, Las Vegas, NV

N. J. Brogan, SAIC, Las Vegas, NV

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Response to CAR YM-93-023

<u>Note</u>: Careful reading of the Requirements in comparison with the cited Adverse Condition reveals that no violations of the Requirements occurred (e.g., Step 1 refers to "SNL contractors"; the cited contractors are not SNL contractors). Nevertheless, the QARD seems to indicate that participants are responsible for evaluating the implementation of QA at subtier contractors where the upper-tier contractor works to the participant's QA Program. Therefore, the following response is provided.

1. Corrective Action Response for CAR# YM-93-023.

1A. Remedial Action

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An evaluation of the nature of the work being conducted by the-subtier contractors listed below will be performed. Based on the results of that evaluation, the SNL QA Audit Schedule for FY93 will be revised, as appropriate, to include audits of NER calibration services subcontractors:

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- MTS Systems Corporation
- ESSCO Laboratory
- Caley and Whitcomb Corp.

1B. Investigative Action

The extent of this CAR deficiency will be determined by identification of subtier contractors who:

- are subcontractors to a SNL contractor who works under the SNL QA Program, and
- are performing or will perform work subject to the QA Program. -

The nature of the work of those subtier contractors will be evaluated. If appropriate, they will be added to the SNL QA Audit Schedule.

1C. Root Cause Determination N/A this CAR.

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1D. Corrective Action to Preclude Recurrence

SNL Procedure 4-1, "Procurement" and Appendix A Procurement Planning Checklist, Section 3 standard clause (F) will be clarified to require all contractors provided with procurement responsibility to inform SNL of the names of subtier contractors used and methodology of qualification.

SNL Procedure 18-1, "Quality Assurance Audits," will be revised to call for evaluation of subcontractors of SNL contractors who work under the SNL QA Program for determination of whether they must be audited.

2. 1A, B, and D R. R. Richards

Estimated completion date for:

1A — March 1, 1993 1B — April 1, 1993 1D — May 1, 1993

YMP Management Dept. Response Approved: ______ C & Wo 3.

2/12/93 Date

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

CORRECTIVE ACTION REQUEST (Continuation Page)

YM-93-023	
03-26-93	
OF	
QA	
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Block 19 Corrective Action Verification

Remedial Action

Verified the SNL YMP Audit Schedule Revision 2, dated 2/24/93 Incorporated MTS Systems Corporation, ESSCO Laboratory and Caley and Whilcomb Corporation scheduled audits

Investigative Action

Verified the problem was limited to New England Research (NER) at the Current time, Holometrex in currently performing scoping activities which are not under the SNL QA program. During the audit YMP 93-03 it was verified that the only active WBS were for NER & Holometrix

Root cause

NONE was required

Corrective Action to Preclude Recurrence

Verified QAIP 4-1. Revision 03, Change Number 02, (effective 4/22/93) Para. 4.3.2 incorporated a requirement to extend QA requirements to Sub-tier Suppliers who perform work for a supplier who works under the SNL QA program.

Verified QAIP 18-1, Revision 01 Change Number 01 (effective 3/22/93) Page 13 (Appendix A-Number 3) was change to require annual evaluation to include a review of subcontractors to SNL who work under the SNL QA Program to determine whether their suppliers must be audited.

_____ Date <u>3/23/93</u>