

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

MAR 1 8 1993

L. Dale Foust Technical Project Officer for Yucca Mountain Site Characterization Project TRW Environmental Safety Systems Inc. Bank of America Center, Suite P-110 101 Convention Center Drive Las Vegas, NV 89109

ISSUANCE OF CORRECTIVE ACTION REQUEST (CAR) YM-93-034, YM-93-036, AND YM-93-037 RESULTING FROM YUCCA MOUNTAIN QUALITY ASSURANCE DIVISION (YMQAD) AUDIT YMP-93-07 OF MANAGEMENT AND OPERATING CONTRACTOR/TRW ENVIRONMENTAL SAFETY SYSTEMS, INC.

Enclosed are CARs YM-93-034, YM-93-036, and YM-93-037 generated as a result of YMQAD Audit YMP-93-07.

Please identify the corrective actions to be taken and implemented to correct the deficiencies. CAR Continuation Sheets and instructions for completion have been provided. Send the originals of your responses to Nita J. Brogan, Science Applications International Corporation, Las Vegas, Nevada. Responses to the CARs are due 20 working days from the date of this letter. Extensions to due dates must be requested in writing, with appropriate justification, prior to the due dates.

If you have any questions, please contact either Robert B. Constable at 794-7945 or Richard E. Powe at 794-7749.

Richard E. Spence, Director Yucca Mountain Quality Assurance Division

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YMQAD:RBC-3143

Enclosures: 1. CAR YM-93-034 2. CAR YM-93-036 3. CAR YM-93-037

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ADD: Ken Hooks UM: Encl.

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(CORRECTIVE A	CTION REQUES	T	
1 Controlling Document				Report No. MP-93-07
M&O QAPD, Revision 3 3 Responsible Organization	141	Discussed With	Audit	IMP-93-0/
Maganization Mag		J. Brackett/J. Jack	son	
 5 Requirement: The MiO QAPD, Revision 3, Par the MiO organizational struct interfaces" Paragraph 2. used to control quality-affec instructions are restricted t functional area." 6 Adverse Condition: Contrary to the above, the Mi Items" does not address QAPD, the A/E for the IMPO, has res Implementing procedures descr during the audit. 	.ure, quality-affect 1.4 states, "MAO In ting activities whe o an MAO geographic o QAPD, Section 15 Section 2.0 requir ponsibility for the	ting responsibiliti mplementing Line Pr ere detailed implem c location or an in .0, "Control of Non rements. The MEO, e disposition of NC	es, ocedures enting dividual conformi acting a Rs.	are MiO ng S
	YesNo_	work condition exist? <u>x</u> ; if Yes - Attach cop one: A B C D cy Preclude Rec		11 Response Due Date: 20 Working Days from Issuance Root Cause Determination
13 Recommended Actions:				÷
7 Initiator Gerard Beaney A. Heaven 15 Response Accepted	3-11-93 Date	14 Issuance Approv QADD 16 Response Agcep	ed by: <u>/////</u>	Date 3/15/93
QAR	Date	QADD		Date `
17 Amended Response Accepted	Vait	18 Amended Respon	nse Acce	
QAR	Date	QADD	·	Date
19 Corrective Actions Verified		20 Closure Approve	d by:	
QAR	Date	QADD		Date

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Format for Corrective Action Response

The CAR response shall include the following information:

- 1. Corrective Action Response for CAR #
 - A. Remedial Action Actions taken to correct specific deficiencies noted.

(Required for all CARs)

B. Investigative Action - Actions taken to determine the extent of the condition.

(Required for all significant conditions adverse to quality or any Condition Adverse to Quality if requested by OQA)

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C. Root Cause Determination - Identification of the root cause of the condition.

(Required for all significant conditions adverse to quality or any Condition Adverse to Quality if requested by OQA)

D. Corrective Action to Preclude Recurrence - Actions taken to address the root cause and preclude recurrence of the condition.

(Required for all significant conditions adverse to quality or any Condition Adverse to Quality if requested by OQA)

- 2. For each action above, identify the name of the individual assigned responsibility for completion and the anticipated (or actual, if complete) completion date.
- 3. Response Approved: _

Responsible Manager

Date:

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			TE MANAGEMEN NT OF ENERGY	8 CAR NO.: <u>14-93-036</u> DATE: <u>3/11/93</u> SHEET: <u>1</u> OF <u>3</u> QA
	COR	RECTIVE AC	TION REQUEST	
	1 Controlling Document CRWMS MGO QAP 5-1, Revision 1, PCN	P01		•
	3 Responsible Organization CRWMS M&O-Nevada		scussed With Justice/T. Redding/E	. Arth
	5 Requirement: QAP 5-1, Revision 1, PCN P01		·	
	 Paragraph 5.3.2 states in part responsible manager using an i with a PRR. The PRR shall be (see Attachment III, Standard Paragraph 5.2.1 of Revision 0 shall submit the draft procedu manager of each interfacing on (Continued on next page) 	interoffice memo completed with Review Criteria stated in part, ire with review	to the reviewing mar review instructions/c) for performing the "The development mar	agers criteria review" hager
	 6 Adverse Condition: The CRWMS M&O, Nevada Operations has 1. There were no review criteria NSP-17-1, Revision 0. The Doc Instruction/Criteria Prepared no review criteria were found review/instructions criteria w Review Record for QLP-2-1, Rev (Continued on next page) 	for the review rument Review Re by:" blocks wer in the records was not identifi	of NSP-6-2, Revision cords, "Review e signed and dated; t package. Furthermore	0, and nowever, the
	 ⁹ Does a significant condition adverse to quality exist? Yes X No	YesNo <u>_x_</u>	ork condition exist? ; if Yes - Attach copy of : Dine: A B C D	11 Response Due Date: SWO 20 Working Days from Issuance
	¹² Required Actions: X Remedial X E 13 Recommended Actions:	L		nce X Root Cause Determination
	 Correct the examples identifie Investigate to determine if th Determine root cause(s) and to 	bere are similar	deficiencies. eclude recurrence.	
	A. I. Arceo	3/15/98 Date	14 Issuance Approved of QADD	2 Date 3/15/93
	15 Response Accepted		16 Response Accepted	
	QAR I 17 Amended Response Accepted	Date	QADD 18 Amended Response /	
;	QAR [19 Corrective Actions Verified	Date	QADD 20 Closure Approved by:	AGEMENT DATE: <u>3717733</u> SHERGY SHEET: <u>1</u> OF <u>3</u> QUEST QA QUEST 2 Related Report No. Audit YMP-93-07 Audit YMP-93-07 Redding/F. Arth Aredding/F. Arth Arth Aredding/F. Arth Arth Aredding/F. Arth Arth Appendix Area Arth Aredding/F. Arth Arth Appendix Arth Arth Aredding/F. Arth Aredit Aredding
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	OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT U.S. DEPARTMENT OF ENERGY WASHINGTON, D.C.	8 CAR NO.: <u>YM-93-036</u> DATE: <u>3/11/93</u> SHEET: <u>2</u> OF <u>3</u> QA
	CORRECTIVE ACTION REQUEST (Continuation	Page)
5 Reg 2.	puirements (continued) Paragraph 5.3.10 states in part, "The responsible manager shall final training requirements and the effective date of the QAP/ILP on the QA Training Coordination Sheet. If formal classroom training is require Training Manager shall be consulted concerning the effective date formal classroom training is not required, the training recommendatio be documented by the responsible manager on the QAP/ILP Training Coordination Sheet and sent to the Training Manager for tracking."	P/ILP d, the If
3.	Paragraph 5.5.2.A states in part, "Changes in the QAP/ILP revision sh be designated by change bars in the retyped QAP/ILP"	all
4.	Paragraph 5.5.4.C states, "The Document Control Center shall distribu cancellation notice and a revised Table of Contents in accordance wit	te the h QAP 6-1."
	Paragraph 5.7.3 states in part, "After approval, the PCN shall be giv the Document Control Center for distribution to all manual holders in accordance with QAP 6-1. The PCN shall be distributed with an update Table of Contents"	en to d
5.	Paragraph 5.8.5 states in part, "Memos documenting the QAP/ILP review to changes in upper documents shall be submitted to the LRC in accord with QAP 17-1."	due ance
6.	Section 6 states in part, "Documents generated as a result of this pr shall be collected and maintained in accordance with QAP 17-1 As minimum, the following shall be considered program records and shall is submitted through the Local Records Centers Program Records: Procedu Review Records and non-mandatory comments with distribution memo and of the draft submitted for review"	be re
6 Adv	erse Condition (continued)	
2.	a. There was no QAP/ILP Training Coordination Sheet for NSP-6-2, Re 0, "Nevada Site Document Tracking."	vision
	b. The QAP/ILP Training Coordination Sheet for QLP-2-1, Revision 1, "Certification of QC Inspectors"	
	 was not signed and dated by the Responsible Manager in the Preliminary Training Requirements Determination block, and 	
	 the Final Determination of Training Requirements block was n filled in. 	ot
	NOTE: Item b. was resolved on 3/2/93 by resubmitting corrected QAP/I Training Coordination Sheet to NNA.921105.0037 records package.	LP
3.	Changes to NSP-6-1, Revision 1, and NSP-17-1, Revision 1 were not ind by change bars. The CRWMS M&O had decided that change bars were not when the revision was so extensive that the revision constituted a complete revision; however, the CRWMS M&O had not revised QAP 5-1 to reflect current practice.	icated needed
٩.	The Document Control Center distributes Cancellation Notices and Proc Change Notices without Table of Contents. There is no Table of Conte for implementing procedures.	edure nts
5.	There was no documented evidence indicating that ILPs were reviewed f impact when upper-tier documents are changed.	or
6.	a. Records packages for the development of implementing procedures NSP-6-1, Revision 1, "Yucca Mountain Site Office: Document and Records Center: Document Control Operations" and NSP-17-1, Revis 1, "Yucca Mountain Site Office: Document and Records Center: Rec Services Operations" were not submitted to the LRC.	ion ords

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

8 CAR NO.: <u>YM-93-036</u> DATE: <u>3/11/93</u> SHEET: <u>3</u> OF <u>3</u> QA

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CORRECTIVE ACTION REQUEST (Continuation Page)

6 Adverse Condition (continued)

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b. Record package for QLP-2-1, Revision 1 did not contain the draft procedure submitted for review.

NOTE: Item a. was resolved on 3/3/93 by transmittal of records packages to the LRC and Item b. was resolved on 3/8/93 by transmittal of the draft procedure to the LRC.

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· ·	OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT U.S. DEPARTMENT OF ENERGY WASHINGTON, D.C.	CAR NO DATE: PAGE:OF QA
CORI	RECTIVE ACTION REQUEST (Continuation I	Page)
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Format for Corrective Action Response

The CAR response shall include the following information:

- Corrective Action Response for CAR # 1.
 - Remedial Action Actions taken to correct specific deficiencies noted. Α.

(Required for all CARs)

Investigative Action - Actions taken to determine the extent of the В. condition.

(Required for all significant conditions adverse to quality or any Condition Adverse to Quality if requested by OQA)

Root Cause Determination - Identification of the root cause of the C. condition.

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Corrective Action to Preclude Recurrence - Actions taken to address the D. root cause and preclude recurrence of the condition.

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- 2. For each action above, identify the name of the individual assigned responsibility for completion and the anticipated (or actual, if complete) completion date.
- 3. **Response** Approved: Date:

Responsible Manager

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RADIOAC		TE MANAGEN	MENT	CAR NO.: <u>YM-93-037</u> DATE: <u>3/12/93</u> SHEET: <u>1</u> OF <u>2</u> QA
CORR	ECTIVE AC	TION REQUES	ST	
1 Controlling Document CRWMS MEO QAPD, Revision 3			2 Related F Audit YM	•
3 Responsible Organization	4 D	iscussed With		
CRWMS MEO-Nevada	L	. D. Foust, J. Ja	ckson	
⁵ Requirement:	• • • • •			
CRWMS MGO QAPD, Revision 3, Section "The MGO Quality Administrative incorporate the committed requirement that all applicable quality assurance	Procedures (QAPs) and Impleme applicable sectio	ns of the C	ARD. OA ensures
 6 Adverse Condition: The CRWMS M&O Implementing Line Prod CRWMS M&O QAPD and in some instances are inadequate or do not reflect cur 1. NSP-6-1, Revision 1, PCNs PO1 and Records Center: Document Control Paragraph 5.1.6.1 states, "Upon 1 the DRC staff shall destroy all 1 including applicable incorporated CRWMS M&O personnel were not dest Instead they are marking the cop personnel. The documents are rer completed and the Job Package is to be revised to reflect this cur 	s do not reflerent practic i PO2, Yucca i Operations receipt of an hard copies o l change docu croying the h ies as obsole moved once th submitted to	ect current pract e that were found Mountain Site Off approved master f the superceded ments." ard copies of the te and keeping th e activity associ the Central Reco	ice. Examp during Aud ice: Docume of a design or obsolete superceded em for refe ated with t	<pre>bles of ILPs that lit YMP-93-07 are: ent Control and a document revision, e (old) documents, d or obsolete document. erence by field the Job Package is</pre>
Does a significant condition adverse to quality exist? Yes X No If Yes, Circle One: A B C	Yes No <u>_x</u>	work condition exist? _; if Yes - Attach co One: A B C D	py of SWO	11 Response Due Date: 20 work days from issuance
12 Required Actions: X Remedial X Exte	ent of Deficienc	y 🕅 Preclude Re	currence [Root Cause Determination
 13 Recommended Actions: 1) Correct the deficiencies identify deficiency; 3) determine if M&O period procedures and what to a port cause (s); and 5) take action to a solution to a s	sonnel are su to if a proce	fficiently traine dure needs to be	d regarding	vorking
سنان البربيسيين فالمتنقلي ويستعلم المتناقي والمتحد والمتحدة والمتحدة والمتحدة والمتحدة والمتحدة والمتحدة	e 3/15/93	14 Issuance Appro	Some	L Date 3/15/93
15 Response Accepted		16 Response Acce	pter	/-/-
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OFFICE OF CIVILIAI RADIOACTIVE WASTE MANA U.S. DEPARTMENT OF EN WASHINGTON, D.C	AGEMENT NERGY DATE: 3712/93 SHEET: 2 OF 2 QA
CORRECTIVE ACTION REQUEST (C	ontinuation Page)
6 Adverse Condition (continued)	
 NSP-17-1, Revision 1, Yucca Mountain Site Office: Docume Services Operations 	ant and Records Center; Record
a. CRWMS M&O QAPD, Revision 3, Section 17.6 states in pa time they are completed until they are stored in pred requirements of the OCRWM QARD. The storage procedur	etermined locations that meet the
f. The method for maintaining control of and accoun from the storage area"	tability for records removed
NSP-17-1, Revision 1, does not provide a method for c storage that are returned to the Record Source.	controlling documents in temporary
b. NSP-17-1, Revision 1, paragraph 5.1.8.1 states in par with applicable QA requirements to prevent loss, dama pressure, excessive light, electromagnetic fields, an	ge from moisture, temperature,
NSP-17-1 does not provide acceptance criteria for the e.g. there is no criteria for what constitutes excess or other hazards.	prevention measures required, ive light, electromagnatic fields,
3. General, all ILPs	:
CRWMS M&O QAPD, Revision 3, Section 2.1.2 states in part organizational structure, quality-affecting responsibili Section 2.1.4 states in part, "M&O Implementing Line Pro quality-affecting activities where detailed implementing an M&O geographic location or individual functional area	ties, interfaces" and cedures are used to control instructions are restricted to
M&O ILPs do not reference interfacing Yucca Mountain Sit Administrative Procedures such as AP 3.50 and AP 6.170.	e Characterization Project Office
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- 3. Response Approved: Date: Responsible Manager

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L. Dale Foust

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MAR 1 8 1993

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cc w/encls: D. G. Horton, HQ (RW-3) FORS Trudy Wood, HQ (RW-52) FORS K. R. Hooks, NRC, Washington, DC S. W. Zimmerman, NWPO, Carson City, NV T. L. Badredine, M&O/TRW, Las Vegas, NV R. J. Brackett, M&O/TRW, Vienna, VA J. A. Jackson, M&O/TRW, Las Vegas, NV R. L. Robertson, M&O/TRW, Vienna, VA C. P. Gertz, YMP, NV cc w/o encls:

J. W. Gilray, NRC, Las Vegas, NV N. J. Brogan, SAIC, Las Vegas, NV

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

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