

Department of Energy

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

WBS 1.2.9.3

SEP 0 2 1992

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

ISSUANCE OF CORRECTIVE ACTION REQUESTS (CAR) YM-92-070 THROUGH YM-92-072 RESULTING FROM YUCCA MOUNTAIN QUALITY ASSURANCE DIVISION (YMQAD) AUDIT YMP-92-22 OF SANDIA NATIONAL LABORATORIES

Enclosed are CAR YM-92-070 through YM-92-072 generated as a result of YMQAD Audit YMP-92-22.

Please identify the corrective actions to be taken and implemented to correct these deficiencies. CAR Continuation Sheets and instructions for completion have been provided. Send the original of your responses to Nita J. Brogan, Science Applications International Corporation, Las Vegas, Nevada. Responses to these CAR are due by 20 working days from the date of this letter. Any extensions to the due date 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 Frank J. Kratzinger at (702) 794-7163.

R.C. Spera

YMOAD: RBC-5370

Richard E. Spence, Director Yucca Mountain Quality Assurance Division

Enclosure: CAR YM-92-070 through YM-92-072

cc w/encl:

K. R. Hooks, NRC, Washington, DC

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

R. R. Richards, SNL, 6318, Albuquerque, NM

J. H. Rusk, MACTEC, Las Vegas, NV

J. D. Verden, TRW/M&O, Las Vegas, NV

N. J. Brogan, SAIC, Las Vegas, NV, 517/T-12

W. B. Simecka, YMP, NV

cc w/o encl:

J. H. Hines, OQD, AL

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

9209140177 920902 PDR Aud: K. R. Hooks I I I
NHO3: 1,
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Who-



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

CAR NO .:	YM-92-070
	9-1-92
SHEET: _	1 of 1
	QA

	WAGINIO	1011, D.O.	<b></b>	
<del></del>	CORRECTIVE AC	CTION REQUE	ST	<del></del>
1 Controlling Document			2 Related R	eport No.
DOP 3-13			Audit YM	
Responsible Organization	4 6	iscussed With	•	· <del>" · · · · · · · · · · · · · · · · · ·</del>
SNL	٠	John Friend		
5 Requirement:  DOP 3-13, Revision C, Section included with records require  Note: DRC forms are require				i DRC forms are
6 Adverse Condition:  Contrary to the above requi completed for the following	rements, there was no Technical Procedure	o documented evide	ence that DR	C forms were
				, ICN 1
TP-90, ICN 1 TP-9 TP-94, ICN 1 TP-9	1, ICN 1 16, ICN 1	TP-92, ICN 1 TP-201, ICN 1	55 55	, 55 5
9 Does a significant condition	10 Does a stop	work condition exist	?	11 Response Due Date:
adverse to quality exist? Yes If Yes, Circle One: A B C	Nox Yes No	K_; if Yes - Attach co	opy of SWO	20 days after issue
12 Required Actions: X Remedi	al X Extent of Deficien	cy X Preclude R	ecurrence [	Root Cause Determination
13 Recommended Actions: Identify the remedial actic Identify the extent of the	on to be taken to corrected the plant of the	rect the deficien anned corrective	cy identifie action to pr	d in Block 6. event recurrence.
1 Ministr	Date (8/19)	14 Issuance Appro	Sparce	Date 9/2/98
15 Response Accepted	//	16 Response Acc	epted	•
QAR	Date	QADD		Date
7 Amended Response Accepted		18 Amended Resp	onse Accepte	d
QAR	Date	QADD	•	Date
9 Corrective Actions Verified		20 Closure Approv	ved by:	
OAR	Date	OADD		Date

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CAR NO		
DATE:		_
PAGE:	OF	
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RADIOACTIVE WASTE MA U.S. DEPARTMENT OF WASHINGTON, D	ENERGY	PAGE: OF QA
CORRECTIVE ACTION REQUEST	(Continuation P	age)
	,	

### Format for Corrective Action Response

The	CAR re	sponse 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)
	В.	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 CQA)
	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.	resp	each action above, identify the name of the individual assigned onsibility for completion and the anticipated (or actual, if complete) letion date.
3.	Resp	onse Approved: Date: Responsible Manager



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

8 CAR NO.:	YM-92-0/1		
DATE:	9-1-92		
SHEET:	1 OF 1		
	AQ		

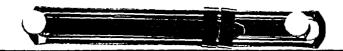
U.S. DEPARTMENT OF ENERGY WASHINGTON, D.C.		QA			
WASH	ing ton, b.c.	<u></u>			
CORRECTIVE	CORRECTIVE ACTION REQUEST				
1 Controlling Document	2 Relate	ed Report No.			
DOP 3-17, Revision 0		YMP-92-22			
3 Responsible Organization	4 Discussed With				
SNL	T. Blejwas, R. Richards				
5 Requirement:					
Procedure DOP 3-17, Revision 0, Paragraph 5.1.1, states that "The final results and outcome of all scientific investigations will be documented in one or more technical information documents. These documents will contain as a minimum, the identification of any and all data that is included in the technical information document (including a specific reference to the origin of the data and the quality assurance level assigned to the activity which generated the data).					
6 Adverse Condition: Contrary to the above requirement, Sandia Re Surficial Geology of Midway Valley Yucca Mou	eport SAND91-0607 "Preliminary untain Project, Nye County, Ne	Mapping of evada Interim Data			
Report does not identify the quality assura	ance level of the report's res	sultant data.			
<sup>9</sup> Does a significant condition 10 Does a	stop work condition exist?	11 Response Due Date:			
adverse to quality exist? YesNo_x Yes	No_x_; if Yes - Attach copy of SW Circle One: A B C D	1 '			
12 Required Actions: 🗓 Remedial 🖫 Extent of Defi	liciency X Preclude Recurrence	Root Cause Determination			
13 Recommended Actions:  Identify the remedial action to be taken to correct the deficiency noted in block 6. Identify the extent of the condition and the planned corrective action to prevent recurrence.					
7 Initiator Jerry Heaney Jerry Heanepate 6-31		nce Date 9/2/92			
15 Response Accepted	16 Response Accepted	,			
QAR Date	QADD	Date			
17 Amended Response Accepted	18 Amended Response Acc	epted			
QAR Date	QADD	Date			
19 Corrective Actions Verified	20 Closure Approved by:				
QAR Date	QADD	Date			

CAR NO	
DATE:	_
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COR	RECTIVE ACTION REQUEST (Co		ane)	
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3.	Respo	onse Approved: Date: Date:



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

8 CAR NO.	YM-92-072
DATE:	9-1-92
SHEET:	1 OF 1
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WASHINGTON, D.C.				
COR	DECTIVE AC	TION REQUES	27	
	RECTIVE AC	HON REGUE		
1 Controlling Document			2 Related Re Audit YM	•
DOP 3-13, Revision C		11001	AUGIE IM	
3 Responsible Organization		scussed With		Ì
SNL		e Jung	<del></del>	<del></del>
5 Requirement:		shee is mark W	the fallow	O
Procedure DOP 3-13, Revision C, Pa placed by the author or resolver in	n the SNL NWRT	Records Manageme	nt System	ing QA records are
"copies of the Document Review relevant marked-up document pages.	and Comment For	m, RD-3, complet	ed for the	review plus any
				j
				ļ
6 Adverse Condition:	<del></del>	<del> </del>		
Contrary to the above requirements	. the marked pa	ges of the docum	ent reviewe	d (Rock Mass
Mechanical Property Estimations fo	r the Yucca Mou	ntain Site Chara	cterization	Project,
SAND92-0450) by J. Jung were not i for verification of incorporation	of sccepted con	review records p ments.	ackage and	cannot be located
				•
				1
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				·
9.5	100			11 Response Due Date:
Does a significant condition	•	ork condition exist?		
adverse to quality exist? YesNo_x If Yes, Circle One: A B C	Yes_No_x_; If Yes - Attach copy of SWO If Yes, Circle One: A B C D		• •	20 days after issue
	<del></del>			
12 Required Actions: X Remedial  Extent of Deficiency  Preclude Recurrence  Root Cause Determination				
13 Recommended Actions: SNL locate the reviewed pages and	chance annough	NOD 2-12 +1	law for the	differentiation
between major and minor comments a	and the differen	nt methods for de	aling with	them.
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				ļ
7 Initiator		14 Issuance Appro	yed by;	/ ;
Ken McFall	Date 8/31/9	QADD AC	Value	Date 9/2/92
15 Response Accepted	10 0/ 21/ 70	16 Response Acce	nted of the	Dail / 0 / 10
ì '		_	ry	
	)ate	QADD		Date
17 Amended Response Accepted		18 Amended Resp	onse Accepte	a
QAR D	)ate	QADD		Date
19 Corrective Actions Verified		20 Closure Approv	ed by:	
QAR D	Date	QADD		Date

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COR	RECTIVE ACTION R	EQUEST (Cont	tinuation Pa	age)		
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3.	Resp	onse Approved: Date: Date: