

Department of Energy

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

WBS 1.2.9.3 QA

DEC 17 1990

Thomas E. Blejwas
Technical Project Officer
for Yucca Mountain
Site Characterization Project
Sandia National Laboratories
Organization 6310
P.O. Box 5800
Albuquerque, NM 87185

ACCEPTANCE OF RESPONSES TO OBSERVATIONS RESULTING FROM YUCCA MOUNTAIN QUALITY ASSURANCE DIVISION (YMQAD) AUDIT 90-04 OF SANDIA NATIONAL LABORATORIES (SNL)

The YMQAD staff has evaluated the responses to Observations 90-04-01 through 06, 08, and 09, generated as a result of YMQAD Audit 90-04 of SNL. The responses to these observations are acceptable. Copies of the observations are enclosed for your information.

If you have any questions, please contact Catherine E. Hampton at (702) 794-7973 or FTS 544-7973, or Stephen R. Dana at (702) 794-7176 or FTS 544-7176.

Donald G. Horton, Director

YMQAD:CEH-1187

Yucca Mountain Quality Assurance Division

Enclosure:

Observations 90-04-01 thru 06, 08, and 09

cc w/encl:

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

N. J. Brogan, SAIC, Las Vegas, NV, 517/T-08

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

K. R. Hooks, NRC, Washington, December 1

cc w/o encl:

J. H. Hines, OQD, AL

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

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FULL TEXT ASCII SCAN

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	YUCCA MOUNT 1YMPO OBSERVAT			N-QA-012 4/89	
	² Noted During: Audit 90-04	³ Identifie	d By: R. Powe	⁴ Date:	
LO O			A. Cocoros	8/24/90	
rganizati	⁵ Organization: SNL	⁶ Person(s) Contacted: R.Sandoval	7 Response Due Date is 20 Days from Date of Transmittal	
O g	⁸ Discussion:				
Completed by Originating Organization	The flow of QAIP 2-10 does no Quality Assurance (QA) Contro Specification Records reflect packages. For example,	1 Specif:	ication Records and that th	ne QA Control	
eted	1. QAIP 2-10 Rev 00 requires	:			
Compl	a) QA Control Specificat	ion Reco	rds to be sent to the Local	l Records	
		Date	10 Branch Manager	Date	
		7/90	Cathery Jungton	9/10/90	
	11 Response:			′ /	
ndee	 A change to QAIP 2-10 will be issued to require that cognizant personnel receive copies of QA Control Specification Records (CSR). Responsible Party: L. J. Klamerus; due date - November 30, 1990. 				
y Respo	 ICN#1 of QAIP 2-10, dated August 23, 1990, requires approval of the QA CSR after QRB acceptance of QA grading packages. 				
Completed by Respondee	 An approved (TPO and QA apgrading packages and QA CS relationship. 		Work Plan is Sandia's <u>basi</u> procedures are written to		
) _ ·			
	12 Signature: Thomas E	Sepu	Date: //-	9 - 2 0	
	13 Response Receipt Acceptable				
.g	Initiator REPone 11,	Date 14/90	QA/Lead Auditor	Date (3/3/92)	
A Or	14Remarks:		- Jus	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Completed by QA Org.					
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YMPO OBSERVATION NO. 90-04-1 CONTINUATION PAGE

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8 Discussion: (continued)

Center (LRC) but not to cognizant personnel.

- b) QA Control Specification Records to be approved prior to project approval of QAG packages.
- 2. Present SNL procedures allow Work Plans (WPs) to be approved and issued prior to completion of all planning, i.e., prior to approval of QAG Packages and approval of QA Control Specification Records. WPs should not be issued until QAG Packages and QA Control Specification Records are approved. QA Package Control Specification Records should not be approved until after the QAG Package approval.

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YUCCA MOUNTAIN PROJECT OFFICE 1 YMPO OBSERVATION NO. 90-04-2

N-QA-012 4/89

`	YMPO OBSERVAT	ION NO.	, 90-04-2	-1100	
on	2Noted During: Audit 90-04	³ Identifie	d By: M.J. Mitchell	4Date: 8/24/90	
rganizati	⁵ Organization: SNL	⁶ Person(s) Contacted: A.Stevens	7 Response Due Date is 20 Days from Date of Transmittal	
Completed by Originating Organization	⁸ Discussion:				
	The requirements for documentation of design analysis information are found in SNL-NWRT-QAPP, Section 3.12.2. The responsibility of ensuring that design information is documented is assigned to the Principal Investigator (PI) per SNL DOP 3-4, Section 7.2. However, the information is not required to be included in the Design Investigation Memo (DIM).				
Somplet	Not passing the requirements weakness. Since the informat				
	9QAE/Lead Auditor	Date	10 Branch Manager	Date	
	manta M. Hehell 19 Sept	40	Cathen Noust	La 9-20-90	
Completed by Respondee	At the time of the audit, QAII on September 5, 1990. QAIP 3 the content and format of Design An assessment shows that it sat the seven requirements from the Documentation of Design Analys Investigator to ensure that the complete.	-4 replacion Investatisfacto he SNL NW sis. It	ees DOP 3-4 as the procedure tigation Memoranda (DIMs). The rily requires the inclusion TRT QAPP, Section 3, paragris the responsibility of the responsibi	on in DIMs of caph 3.12.2, the Principal	
	12Signature: Thomas E (3	Repor	Date: //-	9-90	
	¹³ Response Receipt Acceptable ☑				
		Date	QA/Lead Auditor	Date	
Org.		1/30/90	Slam	N/30/90	
Completed by QA Org.	14Remarks:				
				Page1 of _2	
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YMPO OBSERVATION NO. 90-04-2 CONTINUATION PAGE

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8 Discussion: (continued)

all PIs should be trained in the responsibilities delineated in DOP 3-4, Section 7.2.

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. 44	1YMPO OBSERVAT			4/89	
ion	2Noted During: Audit 90-04	³ Identifie	ed By: M.J. Mitchell	4Date: 8/24/90	
rganizat	⁵ Organization: SNL	⁶ Person(s) Contacted: R. Sandoval		7Response Due Date is 20 Days from Date of Transmittal	
Completed by Originating Organization	**BDiscussion: Work Plan 12611 and ITM-10 which control the ESF Alternatives Study, are inconsistent in their identification of task leaders and delineation of work activities. These documents should be evaluated and ICNs generated.				
)	9 QAE/Lead Auditor Manta f M. Schell 19 Sy	Date n+ 40	10 Branch Manager ;	Date 4-20-90	
Completed by Respondee	11 Response: An assessment of inconsistenc implementing DIMs (DIMs 240 t Revisions to the respective d progress.	hrough 2	52, and DIM 254) has been	completed.	
	12 Signature: Momas ?	Lejo	Date: //-	9-9 ₀	
Completed by QA Org.	Initiator 14 Remarks:	Date	QA/Lead Auditor	Date ル(さ <i>o</i> / <i>g</i> ひ Page <u>1</u> of <u>1</u>	

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	YUCCA MOUNT 1YMPO OBSERVAT	TAIN PROJECT OFFICE TION NO. 90-04-4	N-QA-012 4/89	
	2Noted During: Audit 90-04	3 Identified By: S.D. Harris	4 Date:	
nization		S.D. Harris	8/24/90	
	⁵ Organization: SNL	⁶ Person(s) Contacted: F.	7 Response Due Date is 20 Days from Date of Transmittal	
)rga		Bingham/W. Miller	of Transmittal	
Completed by Originating Organization	OAIP 3-2 does not clearly delineate the detail necessary to determine that prescribed activities, relative to the implementation of computer software controls, have been satisfactorily accomplished. OAE/Lead Auditor Date Date Date Date			
	2). Tavisa 1/1 11 Response:	9/90 Bthun The	A. f. 9/20/90	
Completed by Respondee	QAIP 3-2 will be revised to i	nclude the detail necessary to spec Responsible Party: W. B. Miller; d		
	12 Signature: Thomas {	Rejioz Date: 1/-	9-90	
Completed by QA Org.	S.D. Harris	Date QAVLead Auditor 1-30-90 With comments must be addressed, 1/3) reviewed and accepted to close 1-30-90	Date 1430/90 comments this deservation.	
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			_1 of _1	
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	YUCCA MOUNT 1YMPO OBSERVAT			N-QA-012 4/89
rganization	2Noted During: SNL Audit 90-04	³ Identifie	d By: R. Powe 186 A. Cocoros	4Date : 8/24/90
	⁵ Organization: SNL	1	(s) Contacted: S.Edmund, s, F.Cheek, J.Martin	7 Response Due Date is 20 Days from Date of Transmittal
Completed by Originating Organization	OAIP 5-1, Para. 5.1 requires all appendices that are forms to be marked "Sample". In actual practice, the mark reads "SAMPLE, CONTACT THE CONTROLLED DOCUMENT CENTER STAFF TO OBTAIN THIS FORM". The forms (latest revision) are maintained per procedure, by the Controlled Document Center staff. There are no control ID numbers or dates on the forms. In order to effect better control of forms, it is recommended that form control numbers are tied to dates and which procedure describes the form.			
		Date 19/90	10 Branch Manager	Date 9/20/90
Completed by Respondee	11 Response: Although forms control and man practice. Therefore, effective which is described in detail implemented. Actions complete	ve Novemb in the at	oer 5, 1990, a Forms Manag	ement System,
	12 Signature: Homos & B	lepos	Date: //-	9-90
Completed by QA Org.		THE INITI	ATOR DISAGREES WITH .	SNL POSITION
				Page _1 of _2

YMPO OBSERVATION NO. 90-04-5 CONTINUATION PAGE

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8 Discussion: (continued)

This was discussed with the document control staff and they indicated they had already begun to address better methods of controlling forms. The purpose of this Observation is to obtain SNLs written response as to planned improvements in forms control.

Page

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date: October 17, 1990

to: Distribution

from: Fran Cheek-Martin, 6318, 4-7810

subject: Implementation of the 6310 Forms Management System (FMS)

Background NWRT Department 6310 forms are being standardized in appearance and formalized in usage because:

- o it is necessary in order to eliminate an audit observation
- o the number of forms used in our Yucca Mountain Project (YMP) activities has increased significantly
- o individuals tend to create and use various versions of the same form so that standardized forms do not exist

During the past six weeks, the forms currently being used have been collected, reformatted into a standard format, and assigned a distinct form number.

FMS Criteria

A form's use <u>must be required</u> by a 6310 procedure to be included in the Forms Management System (FMS).

Forms used by an individual or a group to facilitate the performance of their job responsibilities are not subject to the requirements of the FMS.

Example: The procedure coordinator has developed and uses a form to track the status of procedures in process. The form's use is not required by any 6310 procedure and is used only by the procedure coordinator. This form is not subject to the forms management system.

Forms
Included
in
System

The forms currently included in the FMS are required by DOPs, QAIPs, and QAPs. Forms related to other 6310 procedures will be incorporated into the FMS as need dictates.

(RETAIN THIS PAGE FOR FUTURE REFERENCE)

Transition Period Definition of: The period during which the use of existing forms will still be accepted.

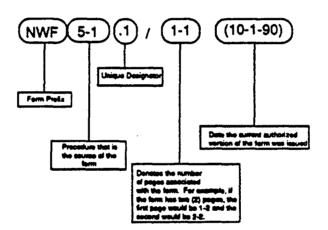
Purpose of: To avoid an overload in the Document Control Center caused by the demand for forms.

Length of: October 22 - November 5,1990

FMS Effective Date November 5, 1990. As of this date, only forms with a revision date of "10-1-90" and issued through the FMS will be acceptable for use.

Form Numbering System An example of a form number is shown below.

NWF 5-1.1/1-1 (10-1-90)



Location of Forms

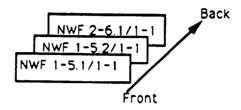
Copies of all forms will be located in the Document Control Center, SNL Albuquerque, Building 823, Room 4003.

The forms will be in a file cabinet inside the door with drawers clearly marked, "Forms (number) - (number)."

(RETAIN THIS PAGE FOR FUTURE REFERENCE)

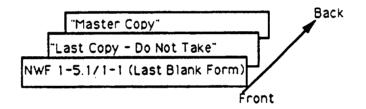
Form File System Forms will be filed in numerical order in individual folders.

Example:



Within the individual folder, there will be a copy of the form stamped "Last Copy - Do Not Take," and a "Master Copy" in a plastic slipcase.

Example:



Reference

Cross-Index A listing of all forms currently required by 6310's procedures will be in a wall-mounted pocket file near the cabinet containing the forms. The forms will be listed:

- numerically (the easiest way to identify the form you need if you know the procedure it is required by) and,
- e alphabetically (in case you know the form's name but not the procedure number).

(RETAIN THIS PAGE FOR FUTURE REFERENCE)

Obtaining Forms Inside Building 823 For those persons in Albuquerque who need forms, forms may be obtained from the Document Control Center staff, Building 823, Room 4003. If no one is there, you will be able to obtain the forms you require by using the information under "Location of Forms," "Form File System," and "Cross-Index Reference."

Replenishing the Forms Supply in Building 823

If the supply of the form you require is down to the "Last Copy - Do Not Take" copy, you may use the "Master Copy" to make copies however; you <u>must</u>:

- o make at least 25 additional "clean" copies of the form and place them in the form folder and,
- o return the "Master Copy" to the plastic slipcase in the form's folder

If the copy you take leaves the "Last Copy - Do Not Take" copy exposed, then you must:

o add the form number to the "Replenish Supply" list that is in a wall-mounted pocket file near the file cabinet containing the forms.

Obtaining Forms Outside of Building 823 If you are not in Building 823 in Albuquerque and need copies of the current forms, complete Attachment A, "Request for Forms" form and return it. (Please request only the forms you use in the performance of your job duties).

One copy of each requested form will be sent to you as soon as possible. Use this form as your "master copy."

Changing A Form

A "Form Change Request" form, number "NWF-FCR," is attached (Attachment B).

This form must be used to request a change to a form.

The form is self-explanatory.

Requests that address format, appearance, and the organization of information on a form will be accumulated and addressed when the form is revised.

Priority, however, will be given to requests that address a form's functionality and its most frequent users' ability to use it to meet their needs.

We are confident that with your cooperation this system can and will work.

HHachment A

To: Document Control Cent Organization 6318 Sandia National Labora P. O. Box 5800		Date
Albuquerque, NM 8718	5-5800	
From:		
Requester Mailing Address (if app	_	Phone
	Request ONLY the forms you need as associated with the procedure numbers I have	checked. (Do not use the
	DOP 2-1; 2-1 is sufficient). Requests from individuked will be returned unfilled. Please check appro	
[] 2.1	Task Definition Statements	
[] 2.4		
[] 2.5	•	
[] 2.6	Qualification and Certification of Personnel	
[] 2.7	Qualification of Quality Assurance Program Au-	dit Personnel
• •	Determination of Applicable QA Controls	
[] 3.2	·	
	Design Change Control	
[] 3.7		
	Reference Information Base Change Process Requirements for Submitting Data to the YMP	Site and Engineering
() 5.1	Properties Data Base (SEPDB)	ore are rightening
[] 3.1	2 Peer Reviews	
[] 3.13	3 Independent Technical and Management Revi	ews of Documents
[] 4.1		
[] 5.1	•	ting Procedures
[] 5.2	•	
[] 5.4	•	res (APQs)
[] 6.1	•	Magnetian Documents
[] 6.2 [] 8.1	0	
[] 6.1	* *	
[] 17.1		
•	Operation of SNL YMP Data Records Manage	ment System (DRMS)
		• •

SNL NWRT 6310	Form Change Request	YM
To: Procedure Coordinator,		Date
To:	Orgn _	Deta
From: Procedure Coordinate		Phone
Request to Change		·
A marked up copy of the cur for your request to receive p	rent form showing the proposed cha roper consideration.	inges <u>must be</u> attached to this for
Reason(s) for the requested	changes:	
	·	
	<u> </u>	
The proposed change(s) has	been:	
The proposed change(s) has	been:	[] Other
[] Accepted		[] Other
[] Accepted		[] Other
		[] Other
[] Accepted		[] Other
[] Accepted		[] Other

	YUCCA MOUNT 1YMPO OBSERVAT			N-QA-012 4/89
on	2Noted During: SNL Audit 90-04	³ Identifie	ed By: J.Martin/C.Prater	4 Date: 8/24/90
Completed by Originating Organization	⁵ Organization: SNL	⁶ Person	(s) Contacted: J. Voigt	7 Response Due Date is 20 Days from Date of Transmittal
	Since January 1990, approximately 37 surveillances have been scheduled with only eleven being performed. The audit team is concerned that, due to manpower, an effective surveillance schedule cannot be maintained.			
		Date 5 - 90	10 Branch Manager	Date
Completed by Respondee	11 Response: For FY91, a surveillance sche work planned to be done, rath schedule will accomplish the activities directed toward th	er than purposes	<u>all</u> work, has been develope of graded QA by keeping ve	ed. This erification
	12 Signature: Thomas E	Cejus	Date: //-	3-9,
Completed by QA Org.	13 Response Receipt Acceptable A Initiator August 14 Remarks:	Date	QA/Lead Auditor	Date 11 / 30/90 Page 1 of 1

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, , ,	YUCCA MOUNT TYMPO OBSERVA		DJECT OFFICE	N-QA-012 4/89
oo	2Noted During: SNL Audit 50-04		ed By: Ć. Warren	4Daté: 8/24/90
Completed by Originating Organization	5 Organization: SNL	6Person Richard	(s) Contacted: R. Price/R.	7 Response Due Date is 20 Days from Date of Transmittal
ompleted by Originating C	SNL-NWRT-QAPP, Revision E, Section 11 requires specific information be specified on test records for engineered items (Section 11.4.2) and acceptance test personnel be qualified in accordance with Appendix C of the QAPP (Section 11.5). Although no testing of engineered items has been performed by SNL, QAIP 11-1, Revision 00 provides for preparation and approval of equipment test procedures (ETPs) without requiring that the above information be included in these procedures.			
O	9QAE/Lead Auditor C.C. Wan 9-1 11 Response:	Date /9.9 ₀	10 Branch Manager	Date 1-4 9/20/90
Completed by Responde⊬	A review of SNL NWRT Quality Audits, against QA Program I requirements are adequately a additional review against NQA Revision 4, also shows that documents for documenting and condition is cited above (not Audit Finding/Observation Review are met by the procedure as	Plan required by the A-1 (1989) the procedure foresees to the procedure foresees to the procedure foresees to the procedure foresees to the procedure procedure foresees to the procedure forest	rements indicates that a ne procedure as currently and the OCRWM QA Required and requirement and audit results. Since an by SNL) resulting from ceduralized, and since all SNL concludes that no act	written. An rements Document, ats of those no adverse not having the requirements
	12 Signature: Thomas E	Repor	- Date: //-	9-90
Completed by QA Org.	13 Response Receipt Acceptable Initiator C.C. Wow. 11-1 14 Remarks:	Date 10 • 9 v	QA/Lead Auditor	Date W3U/QD
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YMPO OBSERVATION NO. 90-04-8 CONTINUATION PAGE

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11. Response:

Because SNL is not currently planning to perform any equipment tests, QAIP 11-1 will be revised to delete all references to equipment test procedures. Should equipment tests be required in the future, a separate procedure will be written for such tests which will incorporate all pertinent requirements from the SNL-NWRT-QAPP (or equivalent). Responsible Party: F. B. Nimick; due date - December 14, 1990.

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	YUCCA MOUNT 1YMPO OBSERVAT			N-QA-012 4/89
ion	2Noted During: SNL Audit 90-04	3 Identifie	ed By: J.Martin/C.Prater	4 Date: 8/24/90
ırganizat	⁵ Organization: SNL	6Person	(s) Contacted: J. Voigt	7 Response Due Date is 20 Days from Date of Transmittal
Completed by Originating Organization	Ourrently, no procedural guidelines exist other than what is listed within Paragraph 4.4 of QAP 18-1 to control audit findings and observations. However, during review of audit reports, it was ascertained that an "Audit Finding Observation Report" (AFOR) form existed but was not proceduralized. The AFOR should be added to QAP 18-1.			
S	9QAE/Lead Auditor	Date	10 Branch Manager	Date 6 9-20-90
Completed by Respondee	A review of SNL NWRT Quality Assurance Procedure 18-1, "Quality Assurance Audits," against QA Program Plan requirements indicates that all such requirements are adequately met by the procedure as currently written. An additional review against NQA-1 (1989) and the OCRWM QA Requirements Document, Revision 4, also shows that the procedure meets all requirements of those documents for documenting and reporting audit results. Since no adverse condition is cited above (nor foreseen by SNL) resulting from not having the Audit Finding/Observation Report proceduralized, and since all requirements are met by the procedure as written, SNL concludes that no action is required in this case.			
	12 Signature: Thomas E	Blej	202 Date: //- 9	7-90
Completed by QA Org.	13 Response Receipt Acceptable Initiator Initiator 14 Remarks:	Date - 30 - 5 4	QA/Lead Auditor	Date 4/30/90
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