

### **Department of Energy**

Washington, DC 20585

QA: L

AUG 18 1997

W. E. Barnes, Project Manager ATTN: J. R. Compton U.S. Department of Energy Yucca Mountain Site Characterization Office, M/S 523 P.O. Box 30307 North Las Vegas, NV 89036-0307

EVALUATION OF AMENDED RESPONSE AND VERIFICATION OF CORRECTIVE ACTION AND CLOSURE OF DEFICIENCY REPORT (DR) YM-96-D-091 RESULTING FROM OFFICE OF QUALITY ASSURANCE (OQA) SURVEILLANCE YMP-SR-96-022 OF SCIENTIFIC PROGRAMS

The OQA staff has evaluated the amended response and verified the corrective action for DR YM-96-D-091 and determined the results to be satisfactory. As a result, the DR is considered closed.

If you have any questions, please contact either James Blaylock at (702) 794-1420 and Daniel J. Tunney (702) 794-1353.

Donald G. Horton, Director Office of Quality Assurance

OQA:JB-2104

Enclosure: DR YM-96-D-091

cc w/encl:

J. O. Thoma, NRC, Washington, DC

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

J. A. Hall, M&O, Las Vegas, NV

D. H. Coleman, DOE/YMSCO, Mercury, NV, M/S 763

cc w/o encl:

W. L. Belke, NRC, Las Vegas, NV

D. J. Tunney, OQA/QATSS, Las Vegas, NV

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Reup: NMSS/PAHL

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Till Seriomagoe Report ☑Deficiency Report

NO. YM-96-D-091, Rev. 1

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					_			QA:
		PERFORM	ANCE/DE	FICIENC	Y REPORT			
1 Contro	olling Document:				Related Report No			
YMP/	TPP T-93-8, Revision 0 JP 94-21, March 1995;			n 2; Y	MP-SR-96-02	22		
	nsible Organization:			4 Discusse	d With:			
	Department of Energy(D	·	anager	A. G. B	urningham, D	. L. Edwards, A.	J. Mitche	11
	ientific Programs (AMS	P)		<u>i                                     </u>				
5 Requir	rement/Measurement Criteria:				•		•	•
<b>a</b> .	Test Planning Packa paragraph, state, "Th activities have been a	e following Quali						
	PARTICIPANT	QAGR	WBS		SUBJECT			
t	USGS	G1233124	1.2.3.3	3.1.2.4	Char of YM I	Perc in the Unsa	Zone-ES	SF"
b.	Job Packages YMP/s operate under the fol		paragraph	h, and YM	IP/JP 95-1, A	.1.b, last paragra	aph, state	, "USGS will
	PARTICIPANT	QAGR	WBS		SUBJECT			
	USGS	G1233124	1.2.3.3	3	Char of YM	Perc in the Unsat	Zone-ES	SF"
								•
YMP/、	Same Line	at operations be	conducte	9 Is conditi	on an isolated occ	cancelled QAGF	₹.	
	I J. Tunney	() Date		□ Yes	■ No	□ Unknown;	Must be	Yes if PR
10 Reco	mmended Action: (Not required Correct the above list		and test p	planning <b>r</b>	oackages.			
b.	Evaluate whether sin	nilar deficiencies	exist, iden	ntify any s	milar deficier	ncies, and correc	t these.	
C.	Evaluate whether the appropriate corrective		ons have a	an impact	on any work	performed and if	f affected	, take
11 QA R	eview:			12 Respon	se Due Date			<u> </u>
QAR	Daniel & Times	م Date الم	26/416	1 .	ing Days from	n Issuance	<i>t</i>	
13 Affect	ted Organization QA manager is	suance Approval: (QA	R for PR)	$\overline{}$	11 111/0		1.00	
Prir	nted Name RESP	ENCE	Signatu	ure	TOTAL!	rolatic)	HEY	Date 9-27.9
22 Corre	ctive Action Verified			23	Closure Approved	by: (N/A for PR)	$\overline{}$	, , ,
QAR	Dallmiz	Date 7	30/97		AOQAM >		2.1	Date 8/12/9/7
	P-16.1Q.1							Rev. 07/15/

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PERFORMANCE/DE	FICIENCY REPORT RESPONSE
(Design & Construction). The process of performing work	Test Planning Packages: Surface-Based Testing, ESF Testing & CMO /testing is now done under new procedures (Field Work Package) for 5.11Q). A new procedure for CMO is being formulated & is expected to
The Surface-Based Testing group has a target date of Octob These two will be converted or completed.	ber 1, 1996, to close out all but two JPs issued under the old procedure.
(Continued next page)	
1996. Several more have been closed out since August 15, no longer in use in February 1994 due to a revision of their contain a reference to obsolete QAGRs. There is very little	Ps have been issued. Of these 48 had been closed out as of August 15.  1996. The Surface Based group began noting that obsolete QAGRs were JP process. There are likely no active JPs from Surface Based group that Surface-Based work currently under TPPs. The ESF group has hance that any of their open JPs/TPPs could contain a reference to the Ps, & may or may not contain the obsolete reference.
16 Root Cause Determination: (Not required for PR) Not required to remedy the deficiency.	Required Yes 🗹 No
17 Action to Preclude Recurrence: (Not required for PR) No further actions need be taken to preclude recurrence. The either in place or are being prepared. The new process will	Required Yes V No he three new procedures that govern work for the various groups are preclude reference to obsolete QAGRs.
18 Corrective Action Completion Due Date: 19 Responsible Initial Initi	
20 Response Accepted  QAR  QAR  Date  9 23 94	21 Response Accepted (N/A for PR):  AOQAM  Date / C /   C / C / C / C / C / C / C / C /
xhibit AP-16.1Q.2 ・・ シンカナミン・ドボン・フィック・	Rev. 07.15/96

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#### PERFORMANCE/DEFICIENCY REPORT RESPONSE

14 Remedial Actions cont'd:

The ESF Testing group has set an internal target date to close out or convert all JP's/TPPs by October 28. 1996.

The CMO group (Design & Construction group) is on top of their Job Packages & plans to convert as soon as possible after their new procedure is in place (expected November or December 1996). Once their new Field Work Package procedure is in place the old procedures governing JP's and TPPs will be obsolete.

In association with obsoleting the governing documents, the Surface-Based group plans to obsolete all TPPs. Any Surface-Based work will require issuance of one of the new Field Work Packages.

Thus steps for ensuring that all facets of JP'S and TPPs are up to date are to convert active JP'S/TPPs to Field Work Packages, or obsolete JP'S/TPPs and require additional work to be done under a Field Work Package. This will ensure that there are no references to obsolete QAGRs.

A proposed target date for completion of the remedial actions is January 31, 1997, in order to allow time for the CMO & construction group to issue a new YAP governing work & to ensure that TPPs are obsoleted.

15 Extent of Condition and Impact cont'd:

There are 44 open TPPs that could contain outdated references.

The impact of the references to outdated QAGRs is thought to be nil because the relevant information is contained in the PACS system.

<sup>8</sup> □Performance Report ⊠Deficiency Report

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#### PR/DR CONTINUATION PAGE

REVISION TO DEFICIENCY REPORT NO. DR YM-96-D-091

Justification:

The Responsible Organization is being changed from U.S. Geological Survey (USGS) to DOE/AMSP since DOE/AMSP is the responsible manager for the job packages.

Daniel Tunney, QAR

Date

Date

Performance Report

⊠ Deficiency Report

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	•						PAGE 1_ UF 2 QA:1
		PERFORM	ANCE/DEI	FICIENC	Y REPORT		
YMP	olling Document: /TPP T-93-8, Revision ( /IP/JP 94-21, March 19			YMF	ted Report No. P-SR-96-022		
<del>U.S.</del>	onsible Organization: 고구 & Geological Survey (US	121196 GS <del>) - DOE/AMST</del>	PIZUIAL USGS	4 Discusse A. G. B		. L. Edwards, A. J.	Mitchell .
5 Requ	irement/Measurement Criteria:						
a.	Test Planning Packa paragraph, state, "T activities have been	he following Quali					
	PARTICIPANT	OAGR	WBS		SUBJECT		
	USGS	G1233124	1.2.3.3.	1.2.4	Char of YM I	Perc in the Unsat 2	Zone -ESF"
<b>o</b> .	Job Packages YMP operate under the fo		paragraph	, and YN	/IP/JP 95-1, A	.1.b, last paragrap	h, state, "USGS will
	PARTICIPANT	<u>OAGR</u>	WBS		SUBJECT		
	USGS	G1233124	1.2.3.3		Char of YM I	Perc in the Unsat 2	Zone-ESF"
7 Initiat			· · · · · · · · · · · · · · · · · · ·	O la candit	ion an isolated occ		
7 Initiat Danie	al J. Tunney	<b>√¦</b> ı≀ Date	196	□ Yes	on an isolated occ ⊠ No		flust be Yes if PR
10 Rec 3.	Correct the above lis	sted job packages	•		_	ncies, and correct (	these.
C.	Evaluate whether the appropriate corrective		ons have a	n impaci	on any work	performed and if a	affected, take
	"THIS DR R	FLYCED	BY I	)	im -ab-	D-201	<u>)                                    </u>
	Review:						
<b>QAR</b>	Daniel St	D-4- 8/	1100	•	se Due Date	(	
3 Affe	Cted Organization QA manager	Date 8/	1	•	se Due Date	m Issuance	
Pri	cted Organization QA manager Inted Name VESPE		1	20 Worl	king Days from	skill like	Date & . [A. 4]
Pri	cted Organization QA manager		R for PR)	20 Worl		skill like	Date & . [A. 9]

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#### VERIFICATION OF DR RESPONSE IMPLEMENTATION

Obtained the Master Controlled Document Report, Dated June 10, 1997. This report was used to determine which Job Packages and Test Planning Packages are open.

The following Job Packages were reviewed:

JP 94-05, Rev. 0, JP 94-07, Rev. 0, JP 94-10, Rev. 0, JP 94-16, Rev. 0, JP 94-19 Rev. 0, JP 95-02, Rev. 0, JP 95-3, Rev. 0, JP 95-04, Rev 0, JP 95-05, Rev. 0, 95-07, Rev. 0, JP 95-08, Rev. 0, JP 95-9, Rev. 0, JP 95-10, Rev. 0, JP 95-11, Rev. 0, JP 95-13, Rev. 0, JP 95-16, Rev. 0, JP 95-17, Rev. 0, JP 95-19, Rev. 0, JP 95-21, Rev. 0, JP 95-22, Rev. 0, JP 95-23, Rev. 0, JP 95-24, Rev. 0, JP 95-26, Rev. 0, JP 95-31, Rev. 0, JP 95-36, Rev. 0

Note: Job Packages YMP/94-21 and YMP/JP 95-1 have been canceled.

Reviewed Controlled Document Issue Authorization dated 5/29/97 to cancel YMP/TPP-91-5.

Reviewed Controlled Document Issue Authorization dated 6/12/97 to cancel the following Test Planning Packages: YMP/TPP-92-02, YMP/TPP-92-03, YMP/TPP-95-16, YMP/TPP-95-17, YMP/TPP-7-93-1, YMP/TPP-7-94-03, YMP/TPP-94-12, YMP/TPP-94-13, YMP/TPP-95-5.

Note: Test Planning Packages YMP T-93-8 and YMP 92-13 have been canceled.

Verified that YAP-5.9Q, Revision 0, "Yucca Mountain Site Characterization Project Site Characterization Site Construction Authorization Process" has been issued with an effective date of 3/18/97.

The implementation of the the response is unsatisfactory because the following open Test Planning Packages were found to include reference to QAGRs in the section noted:

- 1 YMP/TPP-91-34, "Evaluation of Natural Infiltration (Neutron-Access Boreholes) Test Planning Package," Rev. 2, Section 7;
- 2. YMP/TPP-92-15, "Test Planning Package NRG-6 Drilling and Testing," Rev. 0, Section 7;
- 3. YMP/TPP-T-93-09, "Test Planning Package (TPP) T-93-09 Borehole USW SD-12 Drilling and Testing," Rev. 2, Section G;
- 4. YMP/TPP-T-94-01, "T-94-01 Borehole USW SD-9 Drilling and Testing," Rev. 3, Item G

The implementation is also unsatisfactory because all Job Packages and Test Planning Packages have not been converted or canceled.

Individual Contacted to Verify Actions: Andrew Burningham

Quality Assurance Reprensentative: Dilled 2 Tull 2 Date 6/16/47

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		NCE/DEFIC					
4 Remedial Actions:				•			-1.2 8971.
The subject planning and i				e been cance	lled and repla	iced with Fig	eid Work
ackages that do not conta	in references to supe	erseded QARGs.					•
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5 Extent of Condition:							,
review of controlled field	d activation documer	nts (i.e. Job Paci	cages) conduct	ted in June 1	997 confirme	d that all Jol	b Packages v
eferences to QAGRs have	been cancelled or re	vised to delete t	he outdated re	ferences. Te	st Planning Pa	ackages are	not impleme
ocuments and therefore a	re not impacted by the	his DR.					
		•					
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		•				•	
6 Root Cause Determina	tion: (Not required	for PR)	Required:	Yes	☑ No		
o most oddae Determina	them ther redained	10	ricquires.		621 HO		
		•					
•							
7 Action to Preclude Rec	:urrence: (Not requ	ired for PR)	Required:	Yes	V) No		··- <u>-</u> _
			Required: documents no	Yes	No No ire references	to QAGRs.	No addition
AP-5.7Q and YAP-5.9Q	that now govern field					to QAGRs.	No addition
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AP-5.7Q and YAP-5.9Q ation to preclude recurrent of the preclude recur	that now govern fieldice is required.	19 Response	by: Drew Fol	leman	ire references	Phone	
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AP-5.7Q and YAP-5.9Q tion to preclude recurrents  8 Corrective Action Com 07/21/97	that now govern fieldice is required.	d implementing	by: Drew Fol	leman	ire references	Phone	5-7825

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#### VERIFICATION OF AMENDED DR RESPONSE IMPLEMENTATION

Verified that YAP-5.7Q, Revision 1 and YAP-5.9Q, Revision 0 do not require references to QAGRs. Objective evidence verified for this deficiency is also documented on the PR/DR continuation page dated June 16, 1997. The QAR concurs with the amended response which indicates that Test Planning Packages are not implementing documents and are not impacted by this DR. The amended response does not require the cancellation of Test Planning Packages with references to Quality Assurance Grading Packages. Based on the amended response dated July 11, 1997, and the objective evidence reviewed this verification is acceptable.

Quality Assurance Representative Do Two 2 Date 7/30/97