

### **Department of Energy**

Washington, DC 20585

APR 1 0 1998

OA: L

D. R. Wilkins, Technical Project Officer for Yucca Mountain Site
Characterization Project
TRW Environmental Safety Systems, Inc.
1180 Town Center Drive, M/S 423
Las Vegas, NV 89134

VERIFICATION OF CORRECTIVE ACTION AND CLOSURE OF DEFICIENCY REPORT (DR) LVMO-98-D-006 RESULTING FROM THE OFFICE OF QUALITY ASSURANCE (OOA) SURVEILLANCE M&O-SR-97-064

The OQA staff has evaluated the corrective action of DR LVMO-98-D-006 and determined the result 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 or John R. Doyle at (702) 295-2822.

Donald G. Horton, Director Office of Quality Assurance

**OQA:JB-1482** 

Enclosure:

DR LVMO-98-D-006

cc w/encl:

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PDR WASTE WM-11

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

Pe De	rformance Report ficiency Report
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THIS THE THE STAMP

NO. LVMO-98-D-006

U.S. DEP/	ARTMENT OF ENERGY		
	SHINGTON, D.C.		PAGE 1 OF 2
••••			QA: L
PERFORMAN	NCE/DEFICIENCY REPORT		<u> </u>
1 Controlling Document:	TOLIDE TOLERO TILL ON	2 Related Report	No
Field Work Package (FWP) -SB-97-005, Rev. 0, Quality As Description (QARD), Department of Energy/RW-0333P, R	lev. 7		Report M&O-SR-97-064
3 Responsible Organization: Civilian Radioactive Waste Management System Management and Operating Contractor (CRWMS M&O)	4 Discussed With: Eddie Wright, Alan Mitch	hell	
5 Requirement/Measurement Criteria:			
QARD Sub-Section 12.2.1A, Calibration, states in part:	•		
"Measuring and test equipment including equipment that co		nable software	shall be calibrated, adjusted.
and maintained as a unit at prescribed intervals, or prior to			
•			•
Field Work Package (FWP)-SB-97-005, Rev. 0, page 17,	, second general item, states	<b>::</b>	
"QA: The INJECTION COORDINATOR or DESIGNE	EE will halt drilling/coring of	peration when	the cylinder pressure drops
below 500 psig."			
6 Description of Condition:	· · · · · · · · · · · · · · · · · · ·		
y description of designation.			
Contrary to the above requirement, Matheson gauges (1-10	00 psig P/N 63-3113 and 1-4	000 psig P/N	63-3143) measuring tracer
gas injection pressure were not calibrated during drilling op	perations at USW WT-24. TI	ne FWP manda	ites that this is a Q control
and require calibration.			
			•
			·
•			
7 Initiator Shundoy L.	9 is condition an isolated o	ccurrence?	
John R. Doyle ) Date 10/08/	97 🔽 Yes 🗌	No Unk	nown; Must be Yes if PR
10 Recommended Actions: (Not required for PR)			
•			
Calibrate gauges described in Block 6 and determine any in	npact on quality of data colle	cted.	
	•		
			•
· · · · · · · · · · · · · · · · · · ·			
OAR John/R. Doyle Date 10/09/9	12 Response Due Date 20 working days from	n issuance	
3 Director, OUA Issuance Approval: (OAR for PR)	5 70		
DC Haganil	Jane Blan	elesk to	Date 12/5/97
Three trains	Signature  23 Closure Approved by: (	Hts for BE	Date C13 177
22 Corrective Actions Provided	52 CHOSHLE WHOLORED BY:	MY ICH PKI	. •
Date Spay 9	B ANGELLE	Holo	Date 4/8/98
Ahibit AP 16.10.1			Rev. 06/02/

ENCLOSURE 4. 104 3

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

PR/DR NO. <u>LVMO-98-D-006</u>			
PAGE	OF		
	OA: L		

WASHINGTON, D.C.					
PERFORMANCE/DEF	FICIENCY RE	PORT RE	SPONSE		
14 Remedial Actions: The statement directing replacement of the SF6 tank when QA scientific needs. Field Work Package FWP-SB-97-005 to QA:N/A. Due 12/20/97.					
Gages PN 63-3113 & 63-3143 will be obtained and recalibr	rated to determin	e if they are	within tolerar	ices.	
15 Extent of Condition: (Not required for PR) FWP-ESF-96-003, FWP-ESF-96-004, FWP-ESF-96-006, F	WP_ESE_06_011	FWP-FSF-	97-002 and F	WP_SR_07_002 elso	
incorrectly identify the 500 psig item as a Q requirement. The until such time as the FWPs are revised. Q gages have been ESF injections of SF6 prior to air injections, but no later that	he TCO will ensite installed for sur	ire calibrate	d gages are pr	ovided for air SF6 injections	
No adverse impacts have resulted from the use of non-Q gascientific data. Instrumentation used to ensure the absence of the control of the co					
16 Root Cause Determination: (Not required for PR)	Required:	☐ Yes	<b>₩</b> No		
	•				
•					
				·	
17 Action to Preclude Recurrence: (Not required for PR)	Required:	☐ Yes	☑ No		
•					
				·	
•					
8 Corrective Action Completion Due Date: 19 Respons	se by: Andrew	Burningham	· · · · · · · · · · · · · · · · · · ·		
03/16/98	M	Date 0	2/18/98	Phone 5-5070	
OAR Plant Day & Date 2/21/9	21 Respon	SCOOPTE	d (N/A for PR	Date 3/7/78	
chibi AP 16.10.2 2/20/98 LV.SCD. AGB. 02/9				Rev. 06/02/97 → 3 0 3	

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

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#### PR/DR CONTINUATION PAGE

#### VERIFICATION OF CORRECTIVE ACTIONS TO DR LVMO-98-D-006

#### **Block 14 Remedial Actions:**

- A. Verified control copy (102450.1) of FWP-SB--97-005 " Drilling and Testing of USW WT-24 " Rev. 1 located in the K/PB Document Control Trailer that the requirement for 500 PSI tank replacement was revised to QA:/NA.
- B. Verified Bechtel Nevada Calibration Reports (312072 and 312073) dtd. 10/29/97 for manifold regulator R90862 gauges PN 63-3113 and 63-3143. Gauges were within tolerances.

#### **Block 15 Extent of Condition:**

A. Verified that calibrated gauges at the following Surfaced Based Testing locations:

Borehole	Manifold Regulator	Gauge	Calibration Cert. #	Date
USW WT-24	R90873	0 - 1000 PSI 0 - 4000 PSI	312051 312052	10/17/97 10/17/97
USW SD-6	CF003834E	0 - 1000 PSI 0 - 3000 PSI	998877 998875	10/06/97 10/06/97

B. No Q gauges are presently utilized for ESF tracer operations. If gauges are required for tracer boreholes, they are calibrated and available for use. Calibrated gauges are located in a locked Sample Management trailer at the ESF verified additional calibration reports 998878, 998876, 310429, 310250, 998573, 998570 and 998572 for these gauges.

#### **Block 16 Root Cause Determination:**

None Required

#### **Block 17 action to Prevent Recurrence:**

None Required

The Above Corrective Actions have been satisfactorily verified:

This Deficiency Report is considered closed.

John R. Doyle

Date: 3/24/98 /