Department of Energy

Washington, DC 20585

APR 1 6 1997

QA: L

L. D. Foust, 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) YM-96-D-104 RESULTING FROM OFFICE OF QUALITY ASSURANCE (OQA) SURVEILLANCE YAP-SR-96-023 OF THE CIVILIAN RADIOACTIVE WASTE MANAGEMENT SYSTEM MANAGEMENT AND OPERATING CONTRACTOR

The OQA staff has verified the corrective action to DR YM-96-D-104 and determined the results to be satisfactory. As a result, the Corrective Action Request is considered closed.

If you have any questions, please contact either James Blaylock at (702) 794-1420 or Donald J. Harris at (702) 794-1467.

OQA:JB-1342

Donald G. Horton, Director Office of Quality Assurance

Enclosure:

DR YM-96-D-104

cc w/encl:

T. A. Wood, DOE/HQ (RW-55) FORS

V. O. Thoma, NRC, Washington, DC S. W. Zimmerman, NWPO, Carson City, NV

B. R. Justice, M&O, Las Vegas, NV

R. A. Morgan, M&O, Las Vegas, NV

cc w/o encl:

W. L. Belke, NRC, Las Vegas, NV D. J. Harris, OQA/QATSS, Las Vegas, NV

D. G. Sult, OQA/QATSS, Las Vegas, NV

M. R. Diaz, DOE/OOA, Las Vegas, NV

210009

9704210047 970416 PDŘ WASTE WM-11

PDR :

Reup: Nmss/Hlure

Wm-11 102.7



☑Deficiency Report

NO.YM-96-D-104

PAGE 1 OF 3 QA: L

PERFORMANCE/DEFICIENCY REPORT 1 Controlling Document: 2 Related Report No. U.S. Department of Energy/RW-0333P, Quality Assurance SR-96-023 Requirements and Description (QARD), Revision 5 3 Responsible Organization: 4 Discussed With: Civilian Radioactive Waste Management System J. Verden, J. Herbert **Management and Operating Contractor** 5 Requirement/Measurement Criteria: Section 5.2 states: "Work shall be performed in accordance with controlled implementing documents." YAP-17.1Q, Revision 0, Section 5.3.3.a and 7 states: "Refer to Attachment 9.5 Record Preparation, for requirements to identify, generate, and prepare records for retention in the Records Management System (RMS) to insure QA records are completed appropriate to the work accomplished." Attachment 9.5 states in part: "When parts of a record are intentionally obliterated, a statement signed and dated by the appropriate Record Source (RS) shall be included with the record that indicates that the obliterated information does not impact the technical meaning or content of the record. Unintentional obliterations will be corrected per Attachment 9.4. Record data on records and drawings in dark markings against a light background. Statements indicating that blank lines and spaces are intentional shall specify the pages of the affected blanks. Ensure that records packages are legible." (See Page 3) 6 Description of Condition: QA records packages accepted and in storage at the RMS have been changed/corrected, obliterated, and enhanced without the identification of the authorized person and the date when those changes took effect. Furthermore, some of these are illegible, with intentional blanks and spaces without any explanatory statements; some have been corrected after authentication took place without being approved by the originating organization. Examples are: Accession Number **Adverse Conditions** MOY. 960528-07 Records corrected after authentication without documented evidence of originating organization approval. (See Page 3) 7 Initiator 9 is condition an isolated occurrence?

Correct the QA records identified as deficient in accordance with procedural requirements. 1. 2. Review and evaluate other QA records to verify compliance with these requirements and make appropriate

Date 9/19/96

M. R. Diaz

Exhibit AP-16,1Q.1

10 Recommended Actions: (Not required for PR)

corrections of deficient records. Provide objective evidence of review, evaluation, and corrective actions taken. 11 QA Review: 12 Response Due Date

□ Yes

⊠ No

I MAK HAMMO PA	Date 9-30-96 20 working days from issua	nce
13 Affected Organization QA manager		
Printed Name Sicher	Signature / Signature	ty Da
22 Corrective Action Verified	OLIA 23 Closure Approved by UH	A YOLPRI
DAR AND LANGE	Date & 6107 Comments	Da

□ Unknown: Must be Yes if PR

Enclosure

PROP NO. YMS	6-D-104
PAGE2	
	QA: L

PERFORMANCE/DEFICIENCY REPORT RESPONSE 14 Remedial Actions: Records are being returned to the sources for correction of discrepancies identified in DR, section 6, Description of Conditions. Other remedial actions are also identified in attached Investigation Plan, Discrepancy Report No. YM-96-D-104, dated October 30, 15 Extent of Condition: (Not required for PR) Extent of Condition to be determined by the attached Investigation Plan. Amended response will be submitted upon completion of investigation. 16 Root Cause Determination: (Not required for PR) Required V Yes A root cause will be determined when an investigation is completed per the Investigation Plan. 17 Action to Preclude Recurrence: (Not required for PR) V Yes □ No Required Will be determined per the investigation Plan. 18 Corrective Action Completion Due Date: 19 Response by: Jan Verden anice W. Veiden V Initial 12/16/96 Date 10/31/96 Amended Phone 794-7770 20 Response Accepted Date 11-8-96 Date / 1//

Exhibit AP-16.10.2

10/30/96 LV. RM. JDV. 10/96-263

Rev. 07/15/96

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Deficiency Report
NO. <u>YM-96-D-1</u> 04
PAGE 3 OF 3

⁸ Performance Report

PAGE 3 OF 3 QA: L

PR/DR CONTINUATION PAGE

5 Requirement/Measurement Criteria: (continued)

Attachment 9.4 states in part: "Changes/corrections to errors shall be made by drawing a single line through the changed/incorrect information and inserting the new information in close proximity along with the initials or signature of the RS or person authorized to make the change/correction and the date the change/correction was made. Insertions and enhancements (e.g., darkening, faint, illegible characters) are considered changes.

To be accepted, records determined to be incomplete or illegible shall be corrected by the RS or authorized individual. Any correction or change of a QA record after authentication shall be approved by the originating organization."

6 Description of Condition: (continued)

6 Description of Cone	aition: (continued)
Accession Number	Adverse Conditions
MOL.19960731.0245	 a) Contains 19 Field Station Data Sheets. Several of them have been corrected without following procedural requirements (drawing a single line through the changed information and inserting the new information in close proximity along with the initials of the RS or authorized person to make the correction and date the correction was made). b) In some cases a line was drawn but the corrected information was not recorded. c) Contains Sheet 27 of the NE/4 BUSTED BUTTE 7.5" QUADRANGLE (which is a map) with recorded information against a dark background which makes it in some cases illegible.
MOL.19960711.0316	 a) Contains forms called Tbm data sheet.xls dated 2/22, 23, 29/96 which have been corrected without following procedural requirements. b) Some of the forms are missing the date when they were used. c) Blanks and spaces were intentionally left without the required clarification statement.
MOL.19960717.0122	 a) Contains Key Technical Data Traceability form that has been corrected without following procedural requirements. b) Scientific Notebook with several corrections without following procedural requirements. c) Contains Observers Report forms with over 35 empty spaces where entries should be made. However, a required statement to identify those pages in the records package does not exist.
MOL.19960716.0132	Scientific Notebook with corrections made without following procedural requirements.
DRC.19960718.0001	 a) In page 4 of Job Package 93-02A correction made without following procedural requirements. b) Daily Drilling Report forms corrections made without following procedural requirements. c) Core Run Record forms corrections made without following procedural requirements.
MOL.19960812.0274	Some Meteorological Equipment Performance Check or Audit forms show some blanks made without following procedural requirements.
MOL.19960812.0303	 a) Page 34 of 56, corrections made without initials and date. b) Page 43 of 56, recorded information done by a computer was manually enhanced without following procedural requirements. c) Page 50 of 56, corrections made without following procedural requirements. d) Page 52 of 56, recorded information done by a computer was manually enhanced without following procedural requirements. e) Page 56 of 56, corrections made without following procedural requirements.

INVESTIGATION PLAN Discrepancy Report No. YM-96-D104 October 30, 1996

Identified Problem

Records are illegible, have been changed or corrected, obliterated, and enhanced without the identification of the authorized individual and date, have intentional blanks without explanatory statements, and corrected after completion without the originating organization's approval.

Investigate Extent of the Problem

Records Management Department created a plan to determine the extent of the problem:

Examine other records from a sample population a) to determine extent of the problem, b) identify responsible record sources, if possible, c) propose further investigation if warranted, and d) propose remedial action to correct deficiencies identified in YM-96-D104. If further investigation is elected, determine the organization(s) responsible for carrying out such investigation and coordinate.

The plan consists of these elements:

I Selection Criteria

The selection criteria are based on:

- 1) the organizations from which the original deficient documents were found:
- 2) the types of records from which the original deficient documents were found:
- 3) the sample will be based on the numbers of records each organization submitted in the previous 12 months, October 1995 through September 1996.
- 4) the sample of records will be documented to identify which records were reviewed.

II Implementation of the Plan

Members of the Records Processing Center and Records Services staff will conduct the investigation.

Documentation will include:

- 1) Record accession no.
- 2) Organization
- 3) Record Type
- 4) Identified Deficiencies, or "None"
- 5) Summary describing results and evaluation of the records examined
- 6) The documentation identified will be provided to the QAR for review.

III Schedule

After the investigation is completed, a supplemental response to YM-96-D104 will be forwarded. The coordination that may be required with the remote sites calls for additional time to be necessary:

a) Determine sample

and record types

2 work days

b) Conduct investigation

5 work days

c) Documentation

5 work days

The time required for the investigation and remedial actions necessitates a scheduled completion of December 16, 1996.

Discrepancy Report No. YM-96-D104 Supplemental Response

- 1. The records packages noted in item 6, page 1 and page 3 of the DR have been corrected. They were defined as having been obliterated, not legible, and missing information, etc., and have been corrected.
- 2. The investigation of the record packages have been completed in accordance with the Investigation Plan, III. Response schedule.

SUMMARY:

- A. A sample of record types was determined and examples are attached.
- B. A list of documents that required correction was defined and sent to the various remote site sources to be corrected.
- C. Documentation was also defined and a list of all documents corrected is listed on the attached "Record Discrepancy Notices."

12/18/04 DS 1/18/10

LV EM. JDV 12/94-287

CRWMS/M&O

Record Discrepancy Notice

Page

1 Of:

Complete only applicable items

1. TO	2. MAIL STOP	3. ORGANIZATION	4. DATE		
D. Coleman / Jeff Gromny	717	DOE	12/05/96		
5. FROM	6. MAIL STOP	7. ORGANIZATION	8. PHONE		
Kelly McConnell/Bunny Washington	423	M+O	(702) 794-7865		
9. IDENTIFIER/TRACKING NO.					
JP 93-02A	·				
10. TITLE OR SUBJECT OF RECORD					
Records Package for Job Package 93-02A, Drill Pad Co	instruction, Drilling, &	l'esting of Borehole U	E-25 NRG-4		
11. Correct the following discrepancy(ies) in the	e attached record:				
Marked pages of the attached reco	ord are illegible. Pleas	se provide a legible	сору.		
Documentation of acceptability of	obliterated informatio	on missing. Please	provide.		
Attachments, enclosures, or pages	Attachments, enclosures, or pages missing. Please provide missing items.				
The following indexing information	is missing. Please p	rovide:			
Title	Reco	rd date	,		
Author's organization	✓ Signa	ture/Initials/Stamp			
Access list for privileged records m	issing. Please provid	le			
Errors in Table of Contents as note	d below. Please corr	ect.			
PLEASE CORRECT THIS DISCREI	PANT RECORD, A	ND RESUBMIT 1	TO THE RPC.		
12. ADDITIONAL COMMENTS: Three records within this package either have illegible p initialing and dating is required by YAP-17.1Q. These CAR will need to be written by yourself against these re what the discrepancy consists of:	discrepancies were ident	ified in an audit and n	eed to be corrected or a		
DRC.19960718.0003 - Job Package YMP/JP93-02A, Recut-off, page 24 has been dated and initialed and is illegiand the date is not legible.		•			
DRC.19960718.0015 - Reeco Daily Drilling Reports Dated June 17 through July 22, 1993 (29 pages) Page 2 contains three write-overs that need initials and dates, page 8 contains two write-overs that need initials and dates, page 11 contains one write-over that needs initials and a date, page 23 contains one write-over that needs initials and a date, page 26 contains one write-over and one cross-out that have been initialed but not dated, page 28 contains four cross-outs and one write-over all need a date and two of the cross-outs and the one write-over need initials, and page 29 contains one cross-out that has been initialed but					
DRC.19960718.0039 - YMP Core Run Records Dated Jand 20 have a cross-out that needs a date and initials.	une 25 through July 21,	1993 (63 pages) Pages	s 2, 4, 6, 8, 10, 14, 16, 18,		

Record Discrepancy Notice

Page:

1 Of:

Complete only applicable items

1. TO	2. MAIL STOP	3. ORGANIZATION	4. DATE
Shannon Mahda		USGS	12/05/96
5. FROM	6. MAIL STOP	7. ORGANIZATION	8. PHONE
Kelly McConnell/Charlene Vondriska	423	M+O	(702) 794-7865
9. IDENTIFIER/TRACKING NO.			
DTN 950208315142.002			
10. TITLE OR SUBJECT OF RECORD			
Thermoluminescence Data: TL-22 through TL-33.	Total Bleach, Partial Ble	each, & Sunlight Sensitiv	vity Tests (Supplement)
11. Correct the following discrepancy(ies) in	n the attached record	l:	
Marked pages of the attached r	ecord are illegible. P	lease provide a legible	сору.
Documentation of acceptability	of obliterated inform	ation missing. Please	provide.
Attachments, enclosures, or pa	ges missing. Please	provide missing items	•
The following indexing informat	ion is missing. Pleas	e provide:	·
Title	Re	cord date	3
Author's organization	Sig	nature/Initials/Stamp	
Access list for privileged record	s missing. Please pro	ovide	
Errors in Table of Contents as n	oted below. Please	correct.	
PLEASE CORRECT THIS DISCR	REPANT RECORD,	AND RESUBMIT	TO THE RPC.
12. ADDITIONAL COMMENTS: A Record Source Audit was conducted recently and package. The discrepancies identified were not the various sources and have the discrepancies corrected experiments for TL-25-27, 30-32 contains write-ove illegible. Page 29 is illegible, page 34 is illegible at write-overs, page 44 is illegible, page 50 has two crenhancements and cross-outs need to be dated and in provided. Please make a new Table of Contents using MOL. 19960812.0302. List the 56 pages of experimental date and initial the identified discrepancies). Submit discrepancy attached within ten days. If you can not fethe RPC does not receive a corrected package or	responsibility of the RPG I to avoid a CAR situations and cross-outs that not has three cross-outs, oss-outs, page 52 has on uitialed and the illegible and the same title as the pents and state that the rest this new corrected pact make the required corrected corrected page to make the required corrected page to the page to the required corrected page to the page	C to correct, however we can. Item 2 on the TOC - eed dating and initialing, page 43 is illegible and he write-over, and page 5 pages need to be enhanced revious package and state cord is correcting MOL kage with a new transmite ections you must initiate	e volunteered to inform the Anomalous Fading and some of the pages are as eighteen sets of 6 has two write-overs. The ed or a legible copy must be the package is correcting 19960812.0303 (be sure to tall to the RPC with the a CAR against the package.

the RPC. If you have any questions please contact Kelly McConnell 794-7865 or Charlene Vondriska 794-7772.

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Record Discrepancy Notice

1 Of:

Com	ipiete only applicat	ve items		
1. TO	2. MAIL STOP	3. ORGANIZATION	4. DATE	
E. Majer		LBL	12/05/96	
5. FROM	6. MAIL STOP	7. ORGANIZATION	8. PHONE	
Kelly McConnell/Charlene Vondriska	423	M+O	(702) 794-7865	
9. IDENTIFIER/TRACKING NO.				
0BB02 & 0BB03				
10. TITLE OR SUBJECT OF RECORD			•	
Results of Geophysical Surveys Along the North-South	and ESF Alignmen	it & Summary Report: Inte	rpretation of Multiple	
11. Correct the following discrepancy(ies) in the Marked pages of the attached reco	he attached reco	rd:		
Documentation of acceptability of		-		
Attachments, enclosures, or pages missing. Please provide missing items. The following indexing information is missing. Please provide:				
Title Record date				
Author's organization Signature/Initials/Stamp				
Access list for privileged records missing. Please provide				
Errors in Table of Contents as note	ed below. Please	correct.		
PLEASE CORRECT THIS DISCRE	PANT RECORD	O, AND RESUBMIT	TO THE RPC.	
12. ADDITIONAL COMMENTS: A Record Source Audit was conducted recently and a compackage. The discrepancies identified were not the resolution sources and have the discrepancies corrected to Traceability form contains a cross-out that needs to be notebook) contains on page sixteen two write-overs, on page 28 there is one write-over, and on page 33 there is notebook) contains four cross-outs on page 5, two cross-outs on page 5, two cross-outs on page 5, two cross-outs on page 5.	ponsibility of the R of avoid a CAR situa dated and initialed. I page 26 there are s one write-over; the	PC to correct, however we tion. Item 4 on the TOC - Item 5 on the TOC - Gravewo write-overs, on page 2 key all need to be dated and	volunteered to inform the Key Technical Data vity Survey Notebook (1st 7 there is one write-over, on 1 initialed. Item 5 (2nd	

cross-outs on page 10, two cross-outs on page 11, three cross-outs on page 12, one cross-out and one write-over on page 13, two cross-outs on page 14, one cross-out on page 15, two cross-outs on page 16, one cross-out on page 17, one cross-out and an illegible line on page 18, one cross-out on page 19, two cross-outs on page 40, and two write-overs on page 52; they all need to be dated and initialed and the illegible page needs to be enhanced or a legible copy provided. Item 7 on the TOC - Observers Report contains blanks that require a statement specifying each page having blanks and that they are not intentional. Please make a new Table of Contents using the same title as the previous package and state the package is correcting MOL.19960717.0122. List the Key Tech Data Form as a record correcting MOL.19960717.0123. List the notebooks as corrections to MOL.19960717.0131 and MOL.19960717.0132. List the Observers Reports as correcting MOL.19960717.0134. Submit this new corrected package with a new transmittal to the RPC with the discrepancy attached within ten days. If you can not make the required corrections you must initiate a CAR against the package. If the RPC does not receive a corrected package or a response from the source within the ten days, a CAR will be initiated by the RPC. If you have any questions please contact

QAP 17-2 (Effective 11/22/96)

Kelly McConnell 794-7865 or Charlene Vondriska 794-7772.

CRWMS/M&O

QAP 17-2 (Effective 11/22/96)

Record Discrepancy Notice

Page:

1 Of:

· Complete only applicable items

1. TO	2. MAIL STOP	3. ORGANIZATION	4. DATE
K. Pruess		LBL	12/05/96
5. FROM	6. MAIL STOP	7. ORGANIZATION	8. PHONE
Kelly McConnell/Charlene Vondriska	423	M+O	(702) 794-7865
9. IDENTIFIER/TRACKING NO.			
Milestone OB14			
10. TITLE OR SUBJECT OF RECORD			
Two-Phase Flow Experiments in Natural Rock	Fractures from Yucca Mount	ain	· .
11. Correct the following discrepancy(i	es) in the attached record	:	
Marked pages of the attack	ned record are illegible. Pl	ease provide a legible	е сору.
Documentation of acceptal	oility of obliterated informa	ation missing. Please	provide.
Attachments, enclosures, o	or pages missing. Please p	provide missing items	•
The following indexing info	rmation is missing. Please	provide:	
Title	Red	cord date	,
Author's organization	Sign	nature/Initials/Stamp	·
Access list for privileged re	cords missing. Please pro	vide	
Errors in Table of Contents	as noted below. Please of	correct.	
PLEASE CORRECT THIS D	SCREPANT RECORD,	AND RESUBMIT	TO THE RPC.
12. ADDITIONAL COMMENTS: A Record Source Audit was conducted recently package. The discrepancies identified were no various sources and have the discrepancies corpaginated 1-147, contains cross-outs and write-four cross-outs, page 9 has two cross-outs, page has three cross-outs, page 55 has a cross-out, phas a cross-out and a write-over, page 90 has a cross-out, page 119 has a cross-out, and page 1 Table of Contents using the same title as the principal of the page counting the two beginn MOL.19960716.0136 (be sure to date and initiatransmittal to the RPC with the discrepancy attinitiate a CAR against the package. If the RPC ten days, a CAR will be initiated by the RPC. Vondriska 794-7772.	t the responsibility of the RPC rected to avoid a CAR situation overs that need to be dated and e 16 has a cross-out, page 17 rage 59 has a cross-out, page 95 has a cross-	C to correct, however we can. Item 3 on the TOC and initialed. Page 1 has has two cross-outs, page 58 has a cross-out, page 96 has a cross-out, page 10 has a cross-out, page 11 has been page 12 has been page 12 has been page 13 has been page 14 has been page 14 has been page 14 has been page 15 has been page 16 has been page 16 has been page 16 has been page 16 has been page 18 has a cross-out, page 18 ha	e volunteered to inform the - Scientific Notebook one cross-out, page 8 has e 26 has a cross-out, page 32 69 has a cross-out, page 75 ss-out, page 102 has a nitialed. Please make a new OL.19960716.0132. List the hat the record is correcting ected package with a new red corrections you must from the source within the

-CRWMS/M&O

Record Discrepancy Notice

Page	
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1 Of:

Complete only applicable items

1. TO	2. MAIL STOP	3. ORGANIZATION	4. DATE	
	4. MAIL STOF	USGS	3	
S. Keller 5. FROM	6. MAIL STOP	7. ORGANIZATION	12/05/96 8. PHONE	
			1	
Kelly McConnell/Charlene Vondriska 9. IDENTIFIER/TRACKING NO.	423	M+O	(702) 794-7865	
			•	
GS940108315142.003 10. TITLE OR SUBJECT OF RECORD.		•		
Field Notes and Station Location Map Supporting Surfici	al Geologic Mapping of	the Northeast 1/4 of	the Busted Butte 7.5' Quad	
11. Correct the following discrepancy(ies) in the	e attached record:			
Marked pages of the attached record	rd are illegible. Pleas	e provide a legible	сору.	
Documentation of acceptability of c	bbliterated information	n missing. Please p	provide.	
Attachments, enclosures, or pages	missing. Please prov	vide missing items.		
The following indexing information	is missing. Please pr	ovide:		
Title	Recor	d date		
Author's organization	Signat	cure/Initials/Stamp	•	
Access list for privileged records mi	ssing. Please provide	e		
Errors in Table of Contents as noted below. Please correct.				
PLEASE CORRECT THIS DISCREP	ANT RECORD, A	ND RESUBMIT 1	O THE RPC.	
12. ADDITIONAL COMMENTS:				
A Record Source Audit was conducted recently and a corpackage. The discrepancies identified were not the responsation of the paginated 1-18 contain cross-outs, write-overs, and illeging has two cross-outs and three write-overs, page 4 has a crwite-over, page 13 has a cross-out, page 16 has two crosthey all need a date and initials. Page 12 contains illegibnew Table of Contents using the same title as the previous the 19 pages of data sheets on the new TOC and state that the identified discrepancies). List the map on the new Tocorrected package with a new transmittal to the RPC with required corrections you must initiate a CAR against the from the source within the ten days, a CAR will be initial McConnell 794-7865 or Charlene Vondriska 794-7772.	possibility of the RPC to a void a CAR situation. It bility. Page 1 contains a coss-out, page 5 has a cross-out, page 17 has three ility, a legible or enhanced date, enhancement or a package and state the at the record is correcting DC stating that it is correcting the discrepancy attached package. If the RPC do	tem 6 on the TOC - Financial Financi	rolunteered to inform the field Station Data Sheets is three write-overs, page 3 cross-out, page 11 has a is 18 has two cross-outs; ided. Item 8 on the TOC - is provided. Please make a MOL.19960731.0245. List 19 (be sure to date and initial 1.0251. Submit this new you can not make the cted package or a response	

Record Discrepancy Notice

P	a	a	e	•
•	•	2	•	3

1 Of:

Complete only applicable items

	,p		
1. TO	2. MAIL STOP	3. ORGANIZATION	4. DATE
M.C. Brady		SNL	12/05/96
5. FROM	6. MAIL STOP	7. ORGANIZATION	8. PHONE
Kelly McConnell/Charlene Vondriska	423	<u>M+0</u>	(702) 794-7865
9. IDENTIFIER/TRACKING NO.		·	
SNF32020196001.007			
10. TITLE OR SUBJECT OF RECORD	- · · · 40 · 15 · · · 44 ·	- AA 3 4	· .
DTP for "Rock Mass Quality Data for ESF Main Drift 11. Correct the following discrepancy(ies) in the		-30 Meters	
Marked pages of the attached reco		ase provide a legible	сору.
Documentation of acceptability of	obliterated informat	ion missing. Please	provide.
Attachments, enclosures, or pages	missing. Please pr	ovide missing items.	
The following indexing information	is missing. Please	provide:	
Title	Rec	ord date	
Author's organization	Sign	nature/Initials/Stamp	
Access list for privileged records n	nissing. Please prov	ide	
Errors in Table of Contents as noted below. Please correct.			
PLEASE CORRECT THIS DISCRE	PANT RECORD,	AND RESUBMIT	TO THE RPC.
12. ADDITIONAL COMMENTS: A Record Source Audit was conducted recently and a compackage. The discrepancies identified were not the responsive sources and have the discrepancies corrected to The data Sheets (paginated 1-43) attached, has a write-package has already been processed by the RPC a correctopy of the 84 pages listed that contain the TBM sheets package and state the package is correcting MOL.19960 correcting MOL.19960711.0319 (be sure to date and in TOC needs to specify which pages (within the 84 pages transmittal back to the RPC with the discrepancy attached initiate a CAR against the package. If the RPC does not days, a CAR will be initiated by the RPC. If you have Vondriska 794-7772.	consibility of the RPC to avoid a CAR situation, over on page 19 and pacted package needs to learn Please make a new TO711.0316. List the 84 itial the two write-overs, per YAP-17.1Q). Sured within ten days. If yet receive a corrected page 19.00 avoid 19.00 a	to correct, however we want to correct, however we want to be submitted. Attached to able of Contents using the pages on the new TOC s). The statement "All the behavior of the page of the corrected you can not make the reackage or a response from the corrected to the corrected of the corrected	volunteered to inform the of Contents - Memo with the and initials. Since this is a copy of the TOC and a the same title as the previous and state that the record is blanks are intentional on the package with a new equired corrections you must om the source within the ten

0003 (Rev. 11/13/96)

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USGS - Batch Number: MOY-960917-22, Data package - Provisional results: Geotechnical data - ESF, North Ramp for Full Periphery Geotechnical Maps of the North Ramp, Exploratory Studies Facility, Stations 8 + 00 to 10 + 00, WBS Number 1.2.3.3.2.2.1.2; Activity Number 8.3.1.4.2.2.4 DTN: GS960408314224.001

USGS - Batch Number: MOY-960917-22, Data package - Provisional results: Geotechnical Report: Full Peripheral maps - North Tamp of the Exploratory Studies Facility, Station 4 + 00 to 8 + 00, WBS Number 1.2.3.2.2.1.2; Activity Number 8.3.1.5.2.2.5 DTN: GS960408314224.004

USGS - Batch Number: MOY-960930-04, Data package - Provisional results: Geotechnical Data - ESF, North Ramp Periphery Geotechnical Maps (drawings OA-46-204 through OA-46-212) and Rock mass Quality Ratings Report for Stations 10 + 00 to 18 + 00, WBS Number 1.2.3.2.2.1.2: Activity Number 8.3.1.4.2.2.4 DTN: GS960408314224.003

LLNL - Batch Number: MOY-961011-04, Data package - Geomechanical analysis of the Large Block Test; Document Number UCRL-ID-122898, Traceability Number LLYMP9609090

LLNL - Batch Number: MOY-961030-10, Data package - Ten-year results from unsaturated drip tests with UO2 at 90C: Implications for the corrosion of Spent Nuclear Fuel, Traceability Number LLYMP0606114

LLNL - Batch Number: MOY-961030-10, Data package - A study of americium (III) carbonate complexation at elevated Temperatures by pulsed laser photoacoustic spectroscopy, Document Number UCRL-JC-125198, Traceability Number LLYMP9610043

LLNL - Batch Number: MOY-961030-10, data package - Complete scientific notebook 00245, p.s. 1-160, issued 12/19/95, Traceability Number LLYMP9610047

Sandia National Laboratories (SNL) - Batch Number: MOY-961101-03, Audit/Surveillance - Surveillance report 96-03, Traceability Number RMS SL*151543

M&O - Batch Number: MOY-961012-06, Audit/Surveillance - Performance audit on hivolumn samplers of 1996

M&O - Batch Number: D.C.-961016-04, Job package - Job package 95-22 records - job package 95-22, Accession numbers DRC.19961023.0059-through-DRC.19961023.0069.

ATTACHMENT I

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

Performance Report Deficiency Report	ort :
NO. <u>YM-96-D-104</u>	
PAGE OF	
04.	

PR/DR CONTINUATION PAGE

Amended Response, 3/12/97

14. Remedial Action:

Records identified as deficient in the Deficiency Report (DR) and a result of the investigation plan were documented on a Records Discrepancy Notice (QAP-17-2) and returned to the Affected Organization's record sources for correction.

- 15. Extent of Condition:
- 1) Record discrepancies of 1-5% of the total population submitted during the period of October 1995 through February 22, 1997. are probable.
- 2) Impact of the Discrepancies:

The discrepancies were reviewed for type and impact. Illegibility impacted nontechnical information, such as numbers, elevations on topographical maps (which could be deduced from surrounding context), etc. RMD staff checked with remote site record sources who confirmed that the types of errors discovered have no significant impact on the technical meaning of the records 16.

16. Root Cause Determination:

See attached Root Cause Determination Questionnaire. The cause category was determined to be 2Aa, Personnel, Lack of Attention to a Task, Carelessness, and applies to the record sources.

- 17. Action to Prelcude Recurrence:
- A. Training was conducted on the Administrative Procedure, AP-17.1Q, Revision 0, in the time preceding its effective date (11/22/96), and afterwards, including classroom training (required for managers/supervisors, Records Coordinators, and RPC staff; self reading was required for everyone else who generates records or records packages). In addition, training (classroom) on the issues identified by this DR, or on similar issues, has been conducted on several occasions.
- B. 1) A confidence level that 100% of records will be error-free is unrealistic and probably unattainable, given the nature of the task and of human beings. To resolve the problem, Records Management Department developed a discrepancy resolution system and incorporated it within Civilian Radioactive Waste Management System Management and Operating Contractor procedure QAP-17-2, 5.4.1.C. This system (after discovery of the discrepancy by the RPC) consists of the following steps:
 - Contact the record source and attempt to resolve the discrepancy informally
 - (If the informal contact was unsuccessful in resolving the discrepancy) document the discrepancy on a Record Discrepancy Notice
 - Forward the Record Discrepancy Notice to the record source for resolution along with the discrepant record or records
 - Elevate disputes to RPC Supervisor or RM Manager, if necessary

In addition, there are time limits imposed both for the informal contact and for the completion of the correction by the record source. This methodology has been in operation for several years.

- 2) The procedure, QAP-17-2, has one drawback: it does not necessarily inform management of trends or repetitive conditions. For that reason, and others, another method has been set up to capture all discrepancies, whether documented or not, divide them into categories, and report them to the applicable Records Coordinator and manager. This method depends on the RPC staff tracking all discrepancies, trending those discrepancies, reporting to the Records Liaison (member of the RPC staff), who then reports to the Records Coordinator and manager for action. This method has been implemented by the RPC staff, but the recent effective date (2/22/97) of the AP has not permitted sufficient time for full implementation.
- C. The issue of AP-17.1Q (issued 11/22/96) ameliorated the problem of a confusing procedure with a clearer, more logical detail and flow. Because of some new requirements the AP imposed, there was a grace period permitted for record sources who had records or records packages in progress on 11/22/96; that period ended 2/22/97. Since 2/22, there have been 19 days in which RPC personnel have checked for noncompliance with the newly revised procedure, hardly sufficient time to implement the Records Liaison system, since the AP now permits 90 days before a record or records package must be submitted to the RPC (instead of the previous requirement of submittal within 20 work days).
- D. The following answers the question, "Why did the RPC not discover the documented discrepancies and contact the record source in accordance with QAP-17-2?":
 - The RPC does not verify all AP-17.1Q-required direction to the sources. They only verify about five or six requirements.
 - Whether a document is legible or illegible is a matter of interpretation of the definition of "legible" in QAP-17-2, which

Exhibit AP-16.1Q.3 LV.RM-JDV.3/97-024 3/12/97

Rev. 07/03/95 140f21

Performance Report Deficiency Report
NO. <u>YM-96-D-104</u>
PAGE OF
04.1

PR/DR CONTINUATION PAGE

Amended Response, 3/12/97, continued

which definition permits the deduction of the illegible information from the context.

* There are also technical imaging concerns that the RPC must meet, e.g., background "clutter," use of color, obliterated information caused by the RPC processing, etc. Many things concern legibility and preparation for scanning such as bent corners, staples, clips, skewed images, dark/light contrast, etc.

OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT ROOT CAUSE DETERMINATION QUESTIONNAIRE

Page 1 of 4

Refer to Subsection 5.2 and 5.3 of AP-16.4Q for amplification of information.

1.	Identify the adverse condition. 1) Submitted records have been changed or corrected, obliterated, enhanced: with no initials & date 2) Submitted records are illegible and have intentional blanks, but no explanatory statement 3) Corrections made after authentication, with no approval by originating organization
2. Las '	Indicate Where the condition was found. Identified records are from various remote sites as well as the M&O (see no. 8 below) were found after receipt and processing by th Vegas M&O Records Processing Center (RPC).
3.	Note When the condition was first found. Surveillance by M. Diaz, 10/5/96
4.	Select which major program element(s) was affected. (Waste Acceptance, Storage, Transportation, or Repository.) Many different records were reviewed, covering different program activities associated with the Exploratory Studies Facility
5.	Denote the specific area(s) or discipline(s) of the major program element the condition occurred. (e.g., engineering, design, ES&H) Various areas are involved
6.	Determine if the condition is isolated or recurring. Recurring for records transmitted from the record sources during the period from October 1995 through February 22, 1997
7.	Determine if the condition is hardware (item) or programmatic (procedures, personnel) related or both. The condition is concerned solely with paperwork, i.e., programmatic
8.	Denote what organizations are affected by this condition (M&O, USGS, Weston, OCRWM, etc.). M&O SNL; LBL; LLNL, USGS

OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT ROOT CAUSE DETERMINATION QUESTIONNAIRE

Page 2 of 4

	Document the changes that have taken Budget reductions to the remote sites caused rds packages for discrepancies. The records have reductions were effective about October 1995.	I the termination of the rece ad been submitted to the re	ords personnel. Their func		
			•	•	
10.	Determine the need for sketches or pho	otographs.			
	N/A				
11.	Determine the need for laboratory tests	•		•	
	N/A			•	
12.	Identify the physical evidence examined N/A	1,			3
	iva			•	
12	Note the relevant documents reviewed.				
13.	The records cited in the original DR plus the		umented in the supplemen	tal response (dated 12/16/96)	
			•		
•					
		•			
•					
14.	Document any other information that m				
	Insttention to detail on the part of records so	urces who may or may not	read the procedure (AP-17	.1Q) prior to completing the rec	voias.
		·			
				•	
	<u>_</u>	_	•		
15.	Interviews conducted:	☑ No		- N	
	If Yes, refer to page 3 of this attachmen	nt.			
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			•	•	
				· · · · · · · · · · · · · · · · · · ·	
	designee: (Print)	Signature:	. 1	Date:	
1. L.	Mueller	Thurst	Var	3-14-97	

Rev. 07/15/96 (つみ)

OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT ROOT CAUSE DETERMINATION QUESTIONNAIRE

Page 4 of 4

Root	Cause	Code:

2Aa

CAR No./DR No.: YM-96-D-104

Root Cause:

Inattention to detail by the record sources.

Justification or Rationale for Selected Root Cause:

The discrepancies noted in the DR and in the DR Investigation Plan Sample confirmed what Records Management (Local Records Centers of the Affected Organizations and the Records Processing Center in Las Vegas) has experienced.

The termination of the Affected Organizations' Local Records Center personnel was a contributing factor, not in the generation of error-free records, but in the records review and correction prior to transmitting to the Records Processing Center. The change in the Procedure from YAP-17.1Q, Records Management Requirements and Responsibilities, to AP-17.1Q, Record Source Responsibilities for Inclusionary Records, did not occur soon enough to be a factor in this issue.

During the time from October 1995 through February 22, 1997, the RPC staff screened the records submitted from the record sources. They accepted many of the illegibilities detected because the information could be deduced if not discerned directly.

In conclusion, the root cause of this documented problem is palced at the records source for creating records incorrectly. The cause category was determined to be Category 2Aa, "Personnel; Lack of Attention to a Task; Carelessness."

Neglecting to add initials and date to a change, illegibility of a number, etc. are recurring problems. Records will probably always have these kinds of discrepancies to a 1-5% of the total population. The change in the procedure (AP-17.1Q) did not occur soon enough to be a factor in this issue: Termination of many records people at the remote sites was a contributing factor, not in the generation of error-free records, but in their subsequent review and correction. The RPC staff's review of the records accepted many of the "illegibilities" because the information could be deduced if not discerned directly. Therefore, the root cause must be placed at those responsible for creating the records incorrectly in the first place. Category 2Aa, "Personnel; Lack of Attention to a Task; Carelessness" applies.

Designee: (Print) T. MUZLLER	Signature: 1 Uluz Var	Date: 3-14-97
RI: (Print)	Signature:	Date:
J. D. VERDEN	Veri L. Badredine	3-14-97

⁸ □Performance
Report
☑Deficiency Report
NO. <u>YM-96-D-104</u>

PAGE _1_ OF_3_

QA: L

PR/DR CONTINUATION PAGE

BLOCK 22, CORRECTIVE ACTION VERIFICATION

Remedial Action

Verified by Sample of Records returned to the records source for correction on a Records Discrepancy Notice that the identified records deficiencies were corrected and resubmitted to the Records Processing Center for the following record packages:

The types of discrepancies noted were:

Cross-outs (No Initial/Date)

Write-overs (No Initial/Date)

Legibility

Initial or Date (Not Legible or Missing)

22 each

3 each

2 each

Discussed the percentage of discrepancies with Terri Badredine, Records Processing Center Supervisor, and Terry L. Mueller, Record Services Supervisors. It was a consensus that less than 5% of the total population of records submitted between October 1995 and February 1997 contained discrepancies. It was also a consensus that the type of discrepancies would not impact the technical aspect of the records.

Root Cause

A Root Cause Determination was completed and resulted in a cause determination that there was a lack of attention and carelessness on the part of the record sources.

Action to Preclude Recurrence

a) Verified by Review of Training Records that formal classroom training to AP-17.1Q, Revision 0, was provided in accordance with an approved Lesson Plan QA-96006, duration 1.5 hours, on the following dates:

Exhibit AP-16.1Q.3

Rev. 07/03/95

⁸ ☐Performance Report ☑Deficiency Report

NO. YM-96-D-104

PAGE_2__OF_3

QA: L

PR/DR CONTINUATION PAGE

11/25/96	Number of personnel attended	3
11/26/96	•	5
11/27/96		6
12/3/96		14
12/5/96	··	3
12/6/96		3
12/6/96		16
12/10/96		20
12/11/96	·	6
12/13/96		13
12/1 7 /96	•	10
12/18/96	•	19
12/19/96		5
12/21/96		6
1/8/97		8
1/9/97		6
1/14/97		11
1/15/97		15
1/21/97		16
1/22/97		9
1/23/97		12
1/29/97		16
1/30/97		3
2/11/97		_. 13
2/20/97	•	15
2/25/97		1
2/26/97	·	33
3/5/97		1
3/11/97	•	37

- b) Verified that QAP 17-2, Revision 3, Receiving and Processing Inclusionary Records, Section 5.4.1 addresses the Records Management Staff Screening the Records, Section 5.4.1C addresses Resolution of Identified Discrepancies and Documenting the Discrepancy on a "Record Discrepancy Notice."
- c) Verified that Records Management instituted a Record Source Requirement Checklist which should capture all record discrepancies, categorize the discrepancies into types and identify the source (M&O, LANL, SNL, etc.), including the individual name. This information is provided to the Records Coordinators and Management, which in turn is reported to the Records Liaison. This

Exhibit AP-16.1Q.3 Rev. 07/03/95

BDeficiency Report

NO. <u>YM-96-D-</u>

PAGE 3 OF 3

QA: L

PR/DR CONTINUATION PAGE

Source to preclude future problems. This Records Management Discrepancy Trending came effective February 22, 1997.

Verified through discussions with the Records Processing Center's Records Coordinators; Sandra Bolden (M&O), Cheryl Shannon (USGS), Jercqueline Bogashewicz (SNL/LANL/LBNL/LLNL), and Bill Smith, the Records Coordinator over the remote locations records coordinators. The Records Coordinators were familiar with the requirements in QAP 17-2 and the new method of tracking/trending records discrepancies. The Records Coordinators stated that the most recent records from the source have been problem free. Consequently, they have not initiated Records Discrepancy Notices since the 2/22/97 date, therefore no trend information was available.

Records Management acknowledged that a backlog of approximately 13,000 records still exist. This is down from October 1995 in which 50,000 plus records were backlogged.

Monald Harris, QA Representative

April 3, 1997