



**Department of Energy**  
Office of Civilian Radioactive Waste Management  
Yucca Mountain Site Characterization Office  
P.O. Box 98608  
Las Vegas, NV 89193-8608

SEP 09 1996

L. D. Foust  
Technical Project Officer  
for Yucca Mountain  
Site Characterization Project  
TRW Environmental Safety Systems, Inc.  
Bank of America Center, Suite P-110  
101 Convention Center Drive  
Las Vegas, NV 89109

**EVALUATION OF RESPONSE TO DEFICIENCY REPORT (DR) YM-96-C-008  
RESULTING FROM YUCCA MOUNTAIN QUALITY ASSURANCE DIVISION'S  
(YMQAD) AUDIT YM-ARP-96-08 OF THE CIVILIAN RADIOACTIVE WASTE  
MANAGEMENT SYSTEM MANAGEMENT AND OPERATING CONTRACTOR**

The YMQAD staff has evaluated the response to DR YM-96-C-008. The response has been determined to be satisfactory. Verification of completion of the corrective action will be performed after the effective date provided. Any extension to this date must be requested in writing, with appropriate justification, prior to the date. Please send a copy of extension requests to Deborah Sult, YMQAD/QATSS, P.O. Box 98608, Mail Stop 455, Las Vegas, Nevada 89193-8608.

If you have any questions, please contact either Robert B. Constable at (702) 794-5580 or Franklin B. Smith at (702) 794-1329.

Richard E. Spence, Director  
Yucca Mountain Quality Assurance Division

YMQAD:RBC-2571

Enclosure:  
DR YM-96-C-008

cc w/encl:  
T. A. Wood, DOE/HQ (RW-14) FORS  
J. G. Spraul, NRC, Washington, DC  
S. W. Zimmerman, NWPO, Carson City, NV  
R. L. Strickler, M&O, Vienna, VA  
B. R. Justice, M&O, Las Vegas, NV  
R. P. Ruth, M&O, Las Vegas, NV  
Records Processing Center

cc w/o encl:  
W. L. Belke, NRC, Las Vegas, NV  
F. B. Smith, YMQAD/QATSS, Las Vegas, NV  
D. G. Sult, YMQAD/QATSS, Las Vegas, NV  
D. G. Horton, DOE/OQA, Las Vegas, NV

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PDR WASTE  
WM-11 PDR

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add: JG spraul

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OFFICE OF CIVILIAN  
RADIOACTIVE WASTE MANAGEMENT  
U.S. DEPARTMENT OF ENERGY  
WASHINGTON, D.C.8 CAR NO. YM-96-C-008  
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## CORRECTIVE ACTION REQUEST

## 1 Controlling Document:

YLP-2.1Q-YMSCO, Rev. 1, ICN 2

## 2 Related Report No.:

Audit No. YM-ARP-96-08

## 3 Responsible Organization:

CRWMS M&amp;O

## 4 Discussed With:

N/A

## 5 Requirement:

## 5.3.2 The Employee:

5.3.2c) completes Required Self-Study Assignment, or attends scheduled formal instruction, briefing, or OJT and completes associated documentation, as applicable, by the assigned completion date;

5.3.2d) transmits completed Required Self-Study Assignment to Training Department if completed by the effective date . . . ; or

5.3.2e) transmits completed Required Self-Study Assignment to Supervisor if completed after the effective date . . .

## 5.3.3 The Supervisor:

5.3.3c) transmits completed Required Self-Study Assignment to Training Officer.

## 5.3.4 The Training Officer:

files documentation indicating completion of training in training files.

## 6 Description of Condition:

Contrary to the above requirements, as of July 19, 1996, the records of training for the individuals on the attached lists do not include evidence of completion of Required Self-Study Assignment forms for the documents indicated. These individuals were identified as requiring maintenance of proficiency in the indicated procedures as identified on their respective Training Assignment form (YMP-027-R7).

This condition was identified during the conduct of the investigative actions required as a result of DR YMQAD-96-D047. The M&O Training Department reviewed all notifications sent out as of January 1, 1996, to determine if the condition identified in that DR existed in other areas. Of the 153 individuals who were delinquent, 108 (over 70 percent) were CRWMS M&O employees.

In a letter dated May 31, 1996, the CRWMS M&O was asked to (1) take immediate action to ensure the CRWMS M&O employees identified completed required training maintenance; (2) ensure each supervisor determined the impact to quality for each employee's work performance and submitted required documentation to the CRWMS M&O Training Department; (3) confirm in writing by June 21, 1996, that these requirements had been met; and (4) describe in that written response actions being taken to preclude recurrence of this situation. The CRWMS M&O has not completed the required actions.

## 7 Initiator:

Susan E. Davis  
J. Russell Dyer

Date 07/24/96

## 9. Does a stop work condition exist?

Yes \_\_\_ No ☒ ; If Yes, Attach copy of SWOIf Yes, Check One: ☐ A ☐ B ☐ C ☐ D

## 10. Recommended Actions:

1. For those individuals identified on the corrective action, complete post-effective date Required Self-Study Assignments for the procedures indicated. As an alternative, revise the individual's Training Assignment to delete the requirement to maintain proficiency in the applicable document if they no longer work to the affected procedure.
2. Determine the extent of this condition and provide an analysis of its impact.
3. Identify and document the root cause of this condition.
4. Indicate steps that have or will be taken to preclude the condition's recurrence in the future.

## 11 QA Review:

OAR *Stan E. Polo Smith* Date 7/25/96

## 12 Response Due Date:

20 working days from issuance

## 13 Affected Organization QA Manager Issuance Approval:

Printed Name *Richard E. Science*Signature *R. E. Science*

Date 7/30/96

## 22 Corrective Actions Verified

OAR

Date

## 23 Closure Approved by:

AOQAM

Date

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

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CORRECTIVE ACTION REQUEST RESPONSE

14 Remedial Actions:

Evaluate the extent of the deficiency by identifying individuals that are delinquent in training completion, complete the required training, or alternatively identify deletion of training requirements for those individuals. This action to be completed by 9/13/96.

Complete impact analysis for affect on work accomplished by October 11, 1996

15 Extent of Condition and Impact:

16 Root Cause Determination prepared in accordance with AP-16.4Q is attached.

17 Action to Preclude Recurrence:

18 Corrective Action Completion Due Date:

10/11/96

19 Response by:

☒ Initial

☐ Amended

Date 8.28.96

Phon (702) 295-1804

20 Response Accepted

QAR

SDR

Date

9/6/96

21 Response Accepted

AOQAM

Robert B. Cantrell

Date

9.10.96

10/11/90  
M&O TRAINING DATABASE (D)  
OUTSTANDING TRAINING REQUIREMENTS (BY SUBJECT CODE)

Report Generated: 19-jul-1996

Page 1

Subject Code: QAP 1.1 *Organization* QA: Y REV/PCN: 3/0

<u>Employee Name</u>	<u>Assign Dt</u>	<u>Due Dt</u>	<u>Manager Name</u>
- C.T. STATTON	03/01/96	03/31/96	L.D. FOUST
- D.W. GWYN	03/01/96	03/31/96	P.S. HASTINGS
- F. AFSHAR	03/01/96	03/31/96	R.D. SNELL
- H.A. BENTON	03/01/96	03/31/96	A.M. SEGREST
- [REDACTED]	03/01/96	03/31/96	W.E. BARNES
- N.E. BIGGAR	03/01/96	03/31/96	C.T. STATTON
- P.S. HASTINGS	03/01/96	03/31/96	T.C. GEER
- R.G. MUSICK JR	03/01/96	03/31/96	K.J. LOBO
- R.W. NELSON	03/01/96	03/31/96	R.L. ANDREWS
- S.E. LE ROY	03/01/96	03/31/96	J.L. YOUNKER
- T.W. DOERING	03/01/96	03/31/96	D. STAHL
- [REDACTED]	03/01/96	03/31/96	W.E. BARNES

M&O TRAINING DATABASE (D)  
OUTSTANDING TRAINING REQUIREMENTS (By SUBJECT CODE)

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Page 1

Subject Code: QAP 5.1

QA: Y

REV/PCN: 7/0

*Quality Assurance Program Procedures*

Employee Name	Assign Dt	Due Dt	Manager Name
-----	-----	-----	-----
-C.D. POWERS	03/01/96	03/31/96	G.A. FASANO
C.T. STATTON	03/01/96	03/31/96	L.D. FOUST
-G.K. BEALL	03/01/96	03/31/96	T.C. GEER
-J.M. WALKER	03/01/96	03/31/96	M.A. RODGERS
-K.J. LOBO	03/01/96	03/31/96	C.F. METZGER
-M.G. HANNIGAN	03/01/96	03/31/96	D.B. ABEL
-M.S. RINDSKOPF	03/01/96	03/31/96	T.C. GEER
-M.W. PENDLETON	03/01/96	03/31/96	J.L. YOUNKER
-N.J. CHAPPELL	03/01/96	03/31/96	K.M. CLINE
-R.C. MCDONALD	03/01/96	03/31/96	T.E. TOUCHSTONE
-R.N. DATTA	03/01/96	03/31/96	D.S. KESSEL
-R.P. MORISSETTE	03/01/96	03/31/96	P.S. HASTINGS
-R.W. NELSON	03/01/96	03/31/96	R.L. ANDREWS
-S.E. LE ROY	03/01/96	03/31/96	J.L. YOUNKER
-T.A. GRANT	03/01/96	03/31/96	R.E. SMITH
-T.F. MYETTE	03/01/96	03/31/96	G.K. BEALL
-T.W. DOERING	03/01/96	03/31/96	D. STAHL
-W.D. SCHUTT	03/01/96	03/31/96	L.D. FOUST

M&O TRAINING DATABASE (D)  
OUTSTANDING TRAINING REQUIREMENTS (BY SUBJECT CODE)

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Page 1

Subject Code: QAP 6.2  
*(Document Review)*

QA: Y

REV/PCN: 3/0

Employee Name	Assign Dt	Due Dt	Manager Name
- B.R. HURST	03/01/96	03/31/96	C.F. METZGER
- C.D. POWERS	03/01/96	03/31/96	G.A. FASANO
- D.T. HOXIE	03/01/96	03/31/96	C.T. STATTON
- F. AFSHAR	03/01/96	03/31/96	R.D. SNELL
- F.J. SCHELLING	03/01/96	03/31/96	D.T. HOXIE
- G.N. KIMURA	02/02/96	02/09/96	J.L. NAAF
- H. EBNER	03/01/96	03/31/96	J.W. FRANK
- H.E. ADKINS	03/01/96	03/31/96	C.F. METZGER
- J.K. MCCOY	03/01/96	03/31/96	H.A. BENTON
- J.L. ROBERTSON	03/01/96	03/31/96	T.C. GEER
- J.M. WALKER	03/01/96	03/31/96	M.A. RODGERS
- J.W. FRANK	03/01/96	03/31/96	C.F. METZGER
- K.J. LOBO	03/01/96	03/31/96	C.F. METZGER
- M.G. HANNIGAN	03/01/96	03/31/96	D.B. ABEL
- M.S. RINDSKOPF	03/01/96	03/31/96	T.C. GEER
- M.W. PENDLETON	03/01/96	03/31/96	J.L. YOUNKER
- N.W. HODGSON	03/01/96	03/31/96	W.D. SCHUTT
- R.C. MCDONALD	03/01/96	03/31/96	T.E. TOUCHSTONE
- R.P. MORISSETTE	03/01/96	03/31/96	P.S. HASTINGS
- R.W. NELSON	03/01/96	03/31/96	R.L. ANDREWS
- T.M. MESSETT	03/01/96	03/31/96	H.E. ADKINS
- T.W. DOERING	03/01/96	03/31/96	D. STAHL
- W.C. SMITH	03/01/96	03/31/96	T.L. MUELLER

S M&O TRAINING DATABASE (ID)  
OUTSTANDING TRAINING REQUIREMENTS (by SUBJECT CODE)

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Subject Code: QAP 6.2

QA: Y

REV/PCN: 3/0

Employee Name -----	Assign Dt -----	Due Dt -----	Manager Name -----
W.D. SCHUTT	03/01/96	03/31/96	L.D. FOUST

6  
M&O TRAINING DATABASE (TRID)  
OUTSTANDING TRAINING REQUIREMENTS (BY SUBJECT CODE)

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Page 1

Subject Code: QAP 18.2 *Internal Audit Prq* QA: Y

REV/PCN: 7/0

Employee Name -----	Assign Dt -----	Due Dt -----	Manager Name -----
C.T. STATTON	03/01/96	03/31/96	L.D. FOUST
F. AFSHAR	03/01/96	03/31/96	R.D. SNELL
J.D. AGNEW	03/01/96	03/31/96	R.E. SMITH
L.J. OLGUIN	03/01/96	03/31/96	K.K. BHATTACHARYYA
R.M. SANDIFER	03/01/96	03/31/96	L.D. FOUST
T.W. DOERING	03/01/96	03/31/96	D. STAHL



17740  
[REDACTED] AS M&O TRAINING DATABASE (ID)  
OUTSTANDING TRAINING REQUIREMENTS (BY SUBJECT CODE)

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Page 1

Subject Code: YAP-2.6Q

QA: Y

REV/PCN: 1/0

*Participant Planning Sheet Process*

Employee Name		Assign Dt	Due Dt	Manager Name
-----		-----	-----	-----
C.J. NESBITT	Rev1	03/22/96	04/21/96	R.M. SANDIFER
	ICN1	03/22/96	04/21/96	R.M. SANDIFER
[REDACTED]	Rev1	09/19/95	10/19/95	W.E. BARNES
	ICN1	09/19/95	10/19/95	W.E. BARNES

7  
M&O TRAINING DATABASE (D)  
OUTSTANDING TRAINING REQUIREMENTS (BY SUBJECT CODE)

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Subject Code: YAP-2.8Q

QA: Y

REV/PCN: 1/0

*Tracers, Fluids, and Materials Data Reporting and Management*

Employee Name	Assign Dt	Due Dt	Manager Name
-----	-----	-----	-----
C.L. PEARCE	01/05/96	02/04/96	W.R. KENNEDY
D.L. SEAMANS	01/05/96	02/04/96	P.S. HASTINGS
K.O. WIRTZ	01/05/96	02/04/96	G.A. FASANO
R.L. MORTON	01/05/96	02/04/96	E.W. MCCANN

CD'S M&O TRAINING DATABASE (ID)  
OUTSTANDING TRAINING REQUIREMENTS (SUBJECT CODE)

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QA: Y

REV/PCN: 2/1

*Control of Performance*

Employee Name	Assign Dt	Due Dt	Manager Name
C.L. GUITTARD	03/26/96	04/25/96	W.R. KENNEDY
D.A. MCCORMICK	03/26/96	04/25/96	J.J. SALCHAK
 New assign.	06/03/96	07/03/96	S.J. BROCOUM
L.R. MORRISON	03/26/96	04/25/96	W.R. KENNEDY
R.E. SMITH	03/26/96	04/25/96	C.T. STATTON
S.W. GOODIN	03/26/96	04/25/96	W.R. KENNEDY

S M&O TRAINING DATABASE (ID)  
OUTSTANDING TRAINING REQUIREMENTS (BY SUBJECT CODE)

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Subject Code: YAP-30.10

QA: N

REV/PCN: 2/0

*Authorization TO/IS Regulated Hazardous Substances & Materials*

Employee Name -----	Assign Dt -----	Due Dt -----	Manager Name -----
- C.D. POWERS	01/16/96	02/15/96	G.A. FASANO
- D.M. BRADFORD	01/16/96	02/15/96	J.S. FISHER
- K.O. WIRTZ	01/16/96	02/15/96	G.A. FASANO
- L.K. MOORE	01/16/96	02/15/96	H.C. STAFFORD
- M.R. WESTCAMP	01/16/96	02/15/96	L.K. MOORE

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Subject Code: YAP-30.54

QA: N

REV/PCN: 0/0

*Collection Prevention Opportunity Assessment*

Employee Name -----	Assign Dt -----	Due Dt -----	Manager Name -----
- C.D. POWERS	03/07/96	03/17/96	G.A. FASANO
- K.O. WIRTZ	03/07/96	03/17/96	G.A. FASANO
- M.A. RODGERS	03/07/96	03/17/96	D.B. ABEL
- M.J. STOVER	03/07/96	03/17/96	T.H. PYSTO
- S.C. SMITH	03/07/96	03/17/96	E.M GARDINER

M&O TRAINING DATABASE (MID)  
OUTSTANDING TRAINING REQUIREMENTS (BY SUBJECT CODE)

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Subject Code: YMP/91-35

QA: N

REV/PCN: 1/0

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<u>Employee Name</u>	<u>Assign Dt</u>	<u>Due Dt</u>	<u>Manager Name</u>
J.J. LEFEVER	03/01/96	03/31/96	K.W. ROBERTS

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

8 ☒ Corrective Action  
☐ Request

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**CAR/SWO CONTINUATION PAGE**

Actions for responding to CAR-YM-96-C-008:

1. Formulate a team of senior management to oversee the closure efforts for this corrective action report.
2. Formulate an additional team of the M&O Managers to assure the completion or modification of training assignments.
3. Using the same team as established in the previous item, complete the necessary impact analyses. The team will determine what work was done and complete the necessary impact analyses; documentation of no impact should be required.
4. Formulate another team to complete the root cause analysis and develop the long-term, effective measures to preclude recurrence. Root cause analysis to be completed by 10/11/96. Long term measures to prevent recurrence will be completed and in place by December 31, 1996.