



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

WBS 1.2.9.3
QA

JAN 15 1992

Carl P. Gertz, Project Manager, YMP, NV

VERIFICATION OF CORRECTIVE ACTION AND CLOSURE OF CORRECTIVE ACTION REQUEST
(CAR) YM-92-013 RESULTING FROM YUCCA MOUNTAIN QUALITY ASSURANCE DIVISION
(YMQAD) AUDIT YMP-91-I-01 OF YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT
OFFICE

The YMQAD staff has verified the corrective action to CAR YM-92-013 and
determined the results to be satisfactory. As a result, the CAR is
considered closed.

If you have any questions, please contact either Robert B. Constable at
794-7945 or Richard L. Maudlin at 794-7290.

R.E. Spence

Richard E. Spence, Director
Yucca Mountain Quality Assurance Division

YMQAD:RBC-1625

Enclosure:
CAR YM-92-013

cc w/encl:
K. R. Hooks, NRC, Washington, DC
S. W. Zimmerman, NWPO, Carson City, NV

cc w/o encl:
J. W. Gilray, NRC, Las Vegas, NV
N. J. Brogan, SAIC, Las Vegas, NV, 517/T-08
J. W. Estella, SAIC, Las Vegas, NV, 517/T-22
B. J. Verna, MACTEC, Las Vegas, NV

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9202030269 920115
PDR WASTE
MW-11 PDR

YMP-5

ADD: Ken Hooks
Ltr. Encl.

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WM-11
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**OFFICE OF CIVILIAN
RADIOACTIVE WASTE MANAGEMENT
U.S. DEPARTMENT OF ENERGY
WASHINGTON, D.C.**

14 CAR NO.: YM-92-013
DATE: 11/8/91
SHEET: 1 OF 2
QA
WBS No.: 1.2.9.3

CORRECTIVE ACTION REQUEST

1 Controlling Document BTP-SMF-013, Revision 0, QAAP 16.1, Revision 3	2 Related Report No. Audit YMP-91-I-01
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3 Responsible Organization YMPO (SMF)	4 Discussed With J. Peck/C. Lewis
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10 Response Due 20 days from issuance	11 Responsibility for Corrective Action C. P. Gertz	12 Stop Work Order Y or N No
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5 Requirement:

BTP-SMF-013, Revision 0, Staging, Packaging, Documenting Neutron-access Borehole Samples, Step 9 states in part: "Videotape the core run with high resolution video camera."

QAAP 16.1, Revision 3, Corrective Action Requests, Section 4.3, Subsection 4.3.1 states in part: "OCRWM personnel (including direct-support personnel) are responsible for: Identifying and reporting deficiencies observed in the conduct of program activities or in the characteristics of program products."

QAAP 16.1, Revision 3, Section 6.0, subsection 6.1.1 states in part: "Upon discovering an apparent deficiency, OCRWM personnel shall initiate a CAR...."

6 Adverse Condition:

Contrary to the above, there is no documented evidence which indicates the videotaping of neutron access borehole core run No. 58 and this program deficiency was not documented on a CAR.

An entry was made in the Daily Activities Log (at the neutron access borehole) by an SMF staff person that the deficiency occurred.

7 Recommended Action(s):

a. Videotape the core run 58 or provide justification for why compliance with the procedure cannot be obtained. Determine what the affect on quality is in the absence of videotaping the run.

8 Initiator <i>R. L. Maudlin</i> Date: <u>11/12/91</u>	9 Severity Level - 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/>	13 Approved By: <u>James Blayford</u> Date: <u>11/14/92</u>
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15 Verification of Corrective Action:

Completed 1-13-92 see attached verification 1-13-92

16 Corrective Action Completed and Accepted: QAR <i>[Signature]</i> Date <u>1-13-92</u>	17 Closure Approved By: QCA <i>[Signature]</i> <u>1/15/92</u>
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**OFFICE OF CIVILIAN
RADIOACTIVE WASTE MANAGEMENT
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WASHINGTON, D.C.**

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**CORRECTIVE ACTION REQUEST
(continuation sheet)**

7 Recommended Action(s) (continued)

- b. Investigate to determine if there are similar deficiencies and take action to preclude recurrence.

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

8 CAR NO.: YM-92-013
DATE: 12/6/91
SHEET: 1 OF 1
QA

CORRECTIVE ACTION REQUEST (Continuation Page)

1. CORRECTIVE ACTION RESPONSE FOR CAR #YM-92-013

- A. Remedial Action: The following remedial action has been taken to address this deficiency:

- (1) A camera checklist was posted at the field trailer. The checklist provides the sequence of steps to follow to successfully complete videotaping. Chris Scroggins was responsible for this action which was completed on November 1, 1991.

Discussion: Videotaping of core runs 1 and 58 are no longer feasible. The core is packaged in lexan and tin specimen cans to preserve moisture content, and the original condition of the core cannot be recovered. Videotaping the packaged core now would serve no useful purpose as the videotaping is meant to provide an interim record of the core until it is transferred to the SMF or to the PI from the field. Core from runs 1 and 58 was duly logged into the SMF so there is no longer a need for an interim record for these runs. The absence of videotaping of runs 1 and 58 would affect quality only if the core had been lost or damaged in transit to the SMF, and the videotape was needed to show the original orientation and condition of the core. Removing core from the lexan and tin can packaging to videotape the runs at this time would adversely affect quality because it would expose the core to drying and interfere with the analysis being conducted by the PI.

- B. Investigative Action: A review of all core run videotapes was conducted to investigate the extent of the adverse condition. The condition was found to exist for core runs 1 and 58.
- C. Root Cause Determination: The absence of a videotape for these runs was due to the fact that the video camera had unknowingly been turned off. The root cause for this deficiency, however, was determined to be twofold: (1) a video camera operations checklist or a means to verify that the camera was recording was not available, and (2) field personnel were not familiar with the requirements of QAAP 16.1.
- D. Corrective Action to Preclude Recurrence: In addition to the remedial action discussed previously, the following actions have or will be taken to prevent recurrence:
- (1) A TV monitor was installed which allows information being recorded by the video camera to be seen as it is recorded. No recurrence of the condition has been found since the installation of the monitor. John Doyle was responsible for this action which was completed prior to the audit on October 22, 1991.
- (2) To reinforce the requirements and responsibilities of personnel to identify and report, through means of a CAR, any apparent deficiency, John Peck has scheduled two training sessions for field personnel on QAAP 16.1, Rev. 4. Field personnel will be baselined on this procedure and have completed their training to QAAP 16.1, Rev. 4 by December 20, 1991.

Response Approved


Responsible Manager

12/16/91
Date

Str dtd 12/17/91- YMP:RUB-1323

ENCLOSURE 2

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

CAR NO. YM-92-013
DATE: 12/17/91
PAGE: _____ OF _____
QA

CORRECTIVE ACTION REQUEST (Continuation Page)

Response Accepted: Richard L. Mancini 12-18-91
QAR Date

Response Accepted: R. C. Sykes 12/20/91
OQA Date

YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT
PROCEDURE COMPLIANCE DOCUMENTATION FORM

I have read, and understood and complied with Document QAP 16.1, Rev 3 ICN# N/A
in accomplishing my responsibilities in this procedure.

Signature Richard L. Maudlin Name (Printed) RICHARD L. MAUDLIN

Title CORRECTIVE ACTION REQUEST Date 11-12-91

I have read, and understood and complied with Document QAP 16.1, Rev 3* ICN# NA
in accomplishing my responsibilities in this procedure. regarding CAR YM-92-013.
* QAP 16.1 Rev 4 effective 11/12/91 was not used. CAR was started using Rev 3.

Signature R.E. Powe Name (Printed) R.E. Powe

Title QA Eng. III, AD ^{ASP 11/14/91} AUDIT TEAM LEADER ^{ASP 11/14/91} Date 11-12-91

I have read, and understood and complied with Document QAP 14, Rev 3 ICN# _____
in accomplishing my responsibilities in this procedure.

Signature James Blaylock Name (Printed) JAMES BLAYLOCK

Title GEN ENG Date 11/14/91

I have read, and understood and complied with Document QAP 16.1, Rev 4 ICN# _____
in accomplishing my responsibilities in this procedure.

Signature Richard L. Maudlin Name (Printed) RICHARD L. MAUDLIN

Title QA Specialist Date 12-10-91

I have read, and understood and complied with Document QAP 16.1, Rev 4 ICN# N/A
in accomplishing my responsibilities in this procedure.

Signature R.E. Spence Name (Printed) Richard E. Spence

Title Director YMQAD Date 12/20/91

I have read, and understood and complied with Document 16.1, Rev 4 ICN# N/A
in accomplishing my responsibilities in this procedure.

Signature J.S. Martin Name (Printed) John S. Martin

Title QAR Date 1-18-92

YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT
PROCEDURE COMPLIANCE DOCUMENTATION FORM

I have read, and understood and complied with Document QAAP16.1, Rev 4 ICN# N/A
in accomplishing my responsibilities in this procedure.

Signature R.E. Spence Name (Printed) Richard E. Spence

Title Director YMQAD Date 1/15/92

I have read, and understood and complied with Document _____, Rev _____ ICN# _____
in accomplishing my responsibilities in this procedure.

Signature _____ Name (Printed) _____

Title _____ Date _____

I have read, and understood and complied with Document _____, Rev _____ ICN# _____
in accomplishing my responsibilities in this procedure.

Signature _____ Name (Printed) _____

Title _____ Date _____

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in accomplishing my responsibilities in this procedure.

Signature _____ Name (Printed) _____

Title _____ Date _____

I have read, and understood and complied with Document _____, Rev _____ ICN# _____
in accomplishing my responsibilities in this procedure.

Signature _____ Name (Printed) _____

Title _____ Date _____

VERIFICATION OF CAR No. YM-92-013

Verification of CAR No. YM-92-013 was performed to on January 9 and 10, 1992.

COMMITTED CORRECTIVE ACTION:

Verification consisted of ensuring that the following corrective action had been completed as committed:

- I. Posting of a camera checklist listing the sequence of steps to follow to successfully complete videotaping.
- II. Installation of a TV monitor which allows information being recorded by the video camera to be seen.
- III. Training of field personnel to QAAP-16.1

In addition, a verification of the core for Neutron Access Borehole UZ-N55 runs 1 through 80 were visually observed to verify that investigative actions had in fact identified all core runs for which taping was not accomplished.

VERIFICATION:

Field observation was accomplished to assure that the completion of items I and II, as noted above, were completed. Observation provided evidence that these items were completed as committed.

Documentation review for item III, as noted above, was also found to be satisfactory. Personnel records were reviewed for required training for the following personnel:

Baird, Frank A.
Doyle, John R.
Guerino, Kim G.
Hattler, Diane Y.
Jorgensen, Carl R.
Lewis, Chirs C.
Lugo, Candace L.
Merritt, David W.
Paige, Al A.
Sanchez, Danny

Davis, John H.
Edwards, Mark D.
Hartley, John
Hermes, Chirs J.
Kersch, Keith M.
Linden, Linda S.
Matthusen, Augie C.
Moyer, Jim L.
Peck, John H.
Scroggins Kris (Claude)

Visual observation of the video for Neutron Access Borehole UZ-N55 coincided with the findings of the Sample Management Facility in that only core runs No. 1 and 58 had been missed from video-tapping.

Based upon acceptance of the response and successful verification, no further action is required relative to CAR YM-92-013 at this time. This CAR is considered closed.

 1-13-92
JOHN S. MARTUS