



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

WBS 1.2.11
 QA: N/A

JUL 28 1993

William C. Kopatich
 Technical Project Officer
 for Yucca Mountain
 Site Characterization Project
 Raytheon Services Nevada
 101 Convention Center Drive
 Phase II, Suite P-250
 Las Vegas, NV 89109

ISSUANCE OF CORRECTIVE ACTION REQUEST (CAR) YM-93-076 THROUGH CAR YM-93-083
 RESULTING FROM YUCCA MOUNTAIN QUALITY ASSURANCE DIVISION (YMQAD) AUDIT
 YMP-93-13 OF RAYTHEON SERVICES NEVADA (SCP: N/A)

Enclosed are CARs YM-93-076 through YM-93-083 generated as a result of YMQAD
 Audit YMP-93-13.

Please identify the corrective actions to be taken and implemented to correct
 the deficiencies. CAR Continuation Sheets and instructions for completion
 have been provided. Send the originals of your responses to Nita J. Brogan,
 YMQAD/QATSS, 101 Convention Center Drive, Suite 640, Las Vegas, Nevada 89109.
 Responses to the CARs are due 20 working days from the date of this letter.
 Extensions to due dates must be requested in writing, with appropriate
 justification, prior to the due dates.

If you have any questions, please contact either Robert B. Constable at
 794-7945 or John S. Martin at 794-7881.

Richard E. Spence, Director
 Yucca Mountain Quality Assurance Division

YMQAD:RBC-5247

Enclosure:
 CARs YM-93-076 through YM-93-083

cc w/encl:
 S. W. Zimmerman, NWPO, Carson City, NV
 K. R. Hooks, NRC, Washington, DC
 T. L. Badredine, M&O/TRW, Las Vegas, NV
 D. J. Tunney, RSN, Las Vegas, NV

cc w/o encl:
 J. W. Gilray, NRC, Las Vegas, NV
 N. J. Brogan, YMQAD/QATSS, Las Vegas, NV

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102.7
 WM-11
 NHD3 1/1

9308050112 930728
 PDR WASTE
 WM-11 PDR

YMP-5

ADD: Ken Hooks
 W. Encl.

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

⁸ CAR NO. YM-93-076
DATE: 7/21/93
PAGE: 1 OF 2
QA

CORRECTIVE ACTION REQUEST

¹ Controlling Document
QARD, Rev. 0 & PP-02-08, Rev. 1, Training,...of MTL Personnel

² Related Report No.
YMP-93-13

³ Responsible Organization
RSN

⁴ Discussed With
W. Kopatch & J. Rue

⁵ Requirement

QARD Section 2.2.11, states in part "Each affected organization shall establish a program for the evaluation, selection, indoctrination, training, and qualification of personnel performing work subject to QARD requirements. The program shall: F. Ensure minimum education and experience are verified or, when minimum education and experience cannot be specifically be verified, provide a statement and justification for the personnel assignment. G. Ensure supervisors evaluate and assess the need for additional indoctrination and training as assignments, positions, and implementing documents change. H. Ensure the required indoctrination and training for a specified task is completed prior to performing the task."

⁶ Adverse Condition:

The following deficiencies were found:

- 1) Documented verification of education and experience had not been accomplished for V. Thummala.
- 2) The annual evaluation for Level I, Level II, and Level III MTL personnel was not documented on the Record of Certification.
- 3) Training to ASTM C 42-90 was not accomplished prior to work initiation for D. Anderson nor D. Herrington.

⁹ Does a significant condition adverse to quality exist? Yes___ No X
If Yes, Circle One: A B C

¹⁰ Does a stop work condition exist? Yes___ No X; If Yes - Attach copy of SWC
If Yes, Circle One: A B C D

¹¹ Response Due Date:
20 Working Days
from Issuance

¹² Required Actions: Remedial Extent of Deficiency Preclude Recurrence Root Cause Determination

¹³ Recommended Actions:

Identify the remedial action to be taken to correct the deficiencies identified in Block 6.
Identify the extent of the condition and the planned corrective action to prevent recurrence.
In addition, identify the root cause of the deficiencies.

⁷ Initiator
S. Jones Date 7/21/93

¹⁴ Issuance Approved by:
QADD *[Signature]* Date 7/27/93

¹⁵ Response Accepted
QAR Date

¹⁶ Response Accepted
QADD Date

¹⁷ Amended Response Accepted
QAR Date

¹⁸ Amended Response Accepted
QADD Date

¹⁹ Corrective Actions Verified
QAR Date

²⁰ Closure Approved by:
QADD Date

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

CAR NO. YM-93-076

DATE: 7/21/92

PAGE: 2 OF 2

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CORRECTIVE ACTION REQUEST (Continuation Page)

REQUIREMENT (continued)

In implementation of these requirements RSN has generated the following:

- 1) PP-02-02, Rev. 1, "Personnel Selection" paragraph 6.2, which states in part "The Manager, Human Resources shall be responsible for verifying the education and experience of employees and subcontractors of the RSN YMP Office, prior to their performing quality affecting activities."
- 2) PP-02-08, Rev. 1, "Training, Qualification, and Certification of Materials Testing Laboratory Personnel" paragraph 6.9.1, states "Level I, Level II, and Level III MTL personnel shall be evaluated annually by the Examiner. The results of the annual evaluation shall be documented on the Record of Certification."
- 3) PP-02-01, Rev. 1, "Indoctrination and Training" paragraph 6.1.2, states in part "Prior to performing any quality-affecting activity, the employee shall be indoctrinated/ trained as a minimum to the following topics as they relate to a particular function: General criteria, including the QARD, Applicable codes, regulations, and standards."

Format for Corrective Action Response

The CAR response shall include the following information:

1. Corrective Action Response for CAR # _____
 - A. Remedial Action - Actions taken to correct specific deficiencies noted.
(Required for all CARs)
 - B. Investigative Action - Actions taken to determine the extent of the condition.
(Required for all significant conditions adverse to quality or any Condition Adverse to Quality if requested by OQA)
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(Required for all significant conditions adverse to quality or any Condition Adverse to Quality if requested by OQA)
2. For each action above, identify the name of the individual assigned responsibility for completion and the anticipated (or actual, if complete) completion date.
3. Response Approved: _____ Date: _____
Responsible Manager

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

CAR NO.	_____
DATE:	_____
PAGE:	_____ OF _____
	QA

CORRECTIVE ACTION REQUEST (Continuation Page)

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

⁸ CAR NO. YM-93-077
DATE: 7/21/93
PAGE: 1 OF 1
QA

CORRECTIVE ACTION REQUEST

¹ Controlling Document
AP-5.1Q, Rev. 3, Control & Transfer of Technical Data on the YMP

² Related Report No.
YMP-93-13

³ Responsible Organization
RSN

⁴ Discussed With
W. Kopatich & D. Tunney

⁵ Requirement

Section 5.1.2 states in part, "To submit acquired or developed technical data packages into the CRF, the YMP Participant submits the data record packages, including associated TDIFs, as records to the CRF within 45 days of the end of the quarter in which the data were placed in the PDA or on an approved schedule."

⁶ Adverse Condition:

Contrary to the above requirement, a TDIF has not been submitted to the CRF for data acquired as part of the North Ramp Geologic (NRG) 1 work that was completed in 11/92.

⁹ Does a significant condition adverse to quality exist? Yes__ No X
If Yes, Circle One: A B C

¹⁰ Does a stop work condition exist? Yes__ No X; If Yes - Attach copy of SWC
If Yes, Circle One: A B C D

¹¹ Response Due Date:
20 Working Days from Issuance

¹² Required Actions: Remedial Extent of Deficiency Preclude Recurrence Root Cause Determination

¹³ Recommended Actions:

Evaluate all data acquired by RSN as to appropriateness for inclusion into the Technical Data Base

⁷ Initiator
John R Matras Date 7/20/93

¹⁴ Issuance Approved by:
QADD [Signature] Date 7/27/93

¹⁵ Response Accepted
QAR Date

¹⁶ Response Accepted
QADD Date

¹⁷ Amended Response Accepted
QAR Date

¹⁸ Amended Response Accepted
QADD Date

¹⁹ Corrective Actions Verified
QAR Date

²⁰ Closure Approved by:
QADD Date

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Responsible Manager

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U.S. DEPARTMENT OF ENERGY
WASHINGTON, D.C.

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U.S. DEPARTMENT OF ENERGY
WASHINGTON, D.C.

⁶ CAR NO. YM-93-078
DATE: 7/21/93
PAGE: 1 OF 1
QA

CORRECTIVE ACTION REQUEST

¹ Controlling Document
PP-06-01, Rev. 1, Controlled Document Distribution

² Related Report No.
YMP-93-13

³ Responsible Organization
RSN

⁴ Discussed With
W. Kopatch

⁵ Requirement

PP-06-01, Rev. 1, paragraph 6.3.3.1 states in part, "...If the document transmittal is not returned within the prescribed time frame..., a follow-up notification (verbal or written) shall be made and documented."

⁶ Adverse Condition:

Contrary to the above, no documented evidence could be produced for follow-up to the following transmittals:

1. B. Gardella, dtd. 5/21/93 - for technical review of Design Specification for Rotary Dill Rig
2. A. Smith, dtd. 3/26/93 - for PPs issued to Manual No. 33

⁹ Does a significant condition adverse to quality exist? Yes ___ No X
If Yes, Circle One: A B C

¹⁰ Does a stop work condition exist? Yes ___ No X; If Yes - Attach copy of SWC
If Yes, Circle One: A B C D

¹¹ Response Due Date:
20 Working Days
from Issuance

¹² Required Actions: Remedial Extent of Deficiency Preclude Recurrence Root Cause Determination

¹³ Recommended Actions:

Identify the remedial action to be taken to correct the deficiency identified in Block 6.
Identify the extent of the condition and the planned corrective action to prevent recurrence.

⁷ Initiator
John S. Martin *[Signature]* Date 7-21-93

¹⁴ Issuance Approved by:
QADD *[Signature]* Date 7/27/93

¹⁵ Response Accepted
QAR Date

¹⁶ Response Accepted
QADD Date

¹⁷ Amended Response Accepted
QAR Date

¹⁸ Amended Response Accepted
QADD Date

¹⁹ Corrective Actions Verified
QAR Date

²⁰ Closure Approved by:
QADD Date

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The CAR response shall include the following information:

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Responsible Manager

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

CAR NO. _____
DATE: _____
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QA

CORRECTIVE ACTION REQUEST (Continuation Page)

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CAR NO. YM-93-079
DATE: 7/21/93
PAGE: 1 OF 1
QA

CORRECTIVE ACTION REQUEST

¹ Controlling Document
PP-06-01, Rev. 1, Controlled Document Distribution

² Related Report No.
YMP-93-13

³ Responsible Organization
RSN

⁴ Discussed With
W. Kopatch

⁵ Requirement
PP-06-01, Rev. 1, paragraph 6.3.3.1 states in part, "...If the document transmittal is not returned within the prescribed time frame..., a follow-up notification (verbal or written) shall be made and documented."

⁶ Adverse Condition:
Contrary to the above, no documented evidence could be produced for follow-up to the following transmittals:
1. B. Gardella, dtd. 5/21/93 - for technical review of Design Specification for Rotary Dill Rig
2. A. Smith, dtd. 3/26/93 - for PPs issued to Manual No. 33

⁹ Does a significant condition adverse to quality exist? Yes ___ No X
If Yes, Circle One: A B C

¹⁰ Does a stop work condition exist? Yes ___ No X; If Yes - Attach copy of SWC
If Yes, Circle One: A B C D

¹¹ Response Due Date:
20 Working Days
from Issuance

¹² Required Actions: Remedial Extent of Deficiency Preclude Recurrence Root Cause Determination

¹³ Recommended Actions:
Identify the remedial action to be taken to correct the deficiency identified in Block 6.
Identify the extent of the condition and the planned corrective action to prevent recurrence.

⁷ Initiator
John S. Martin *[Signature]* Date 7/21/93

¹⁴ Issuance Approved by:
QADD *[Signature]* Date 7/27/93

¹⁵ Response Accepted
QAR Date

¹⁶ Response Accepted
QADD Date

¹⁷ Amended Response Accepted
QAR Date

¹⁸ Amended Response Accepted
QADD Date

¹⁹ Corrective Actions Verified
QAR Date

²⁰ Closure Approved by:
QADD Date

Format for Corrective Action Response

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Responsible Manager

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U.S. DEPARTMENT OF ENERGY
WASHINGTON, D.C.**

CAR NO. _____
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QA

CORRECTIVE ACTION REQUEST (Continuation Page)

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

⁸ CAR NO. YM-93-080
DATE: 7/21/93
PAGE: 1 OF 2
QA

CORRECTIVE ACTION REQUEST

¹ Controlling Document
PP-11-01, Rev. 1 & PP-01-02, Rev. 1

² Related Report No.
YMP-93-13

³ Responsible Organization
RSN

⁴ Discussed With
W. Kopatich & D. Herrington

⁵ Requirement:

PP-11-01, Rev. 1, "General Testing Procedure for the Materials Testing Laboratory Support," paragraph 6.2.1 states, "Work initiation: All test work shall be authorized by the appropriate supervisor in accordance with PP-01-02."

PP-01-02, Rev. 1, "Work Initiation," paragraph 6.1.1, states, "The WI shall be used to initiate applicable work in support of the YMP."

⁶ Adverse Condition:

RSN Material Test Laboratory (MTL) personnel performed tests requested by REECo without a WI.

Discussion

PP-11-01, does not provide RSN MTL personnel the option to perform tests without a WI. REECo is verbally requesting MTL personnel to conduct tests without written authorization and is not providing the MTL with required test information.

Tests requested by REECo:

<u>MTL Request No.</u>	<u>MTL Lab. No.</u>	<u>Requested by</u>	<u>Material</u>
S-504	3283-3288	E. Mouser	Shotcrete

⁹ Does a significant condition adverse to quality exist? Yes__ No <u>X</u> If Yes, Circle One: A B C	¹⁰ Does a stop work condition exist? Yes__ No <u>X</u> ; If Yes - Attach copy of SWC If Yes, Circle One: A B C D	¹¹ Response Due Date: 20 Working Days from Issuance
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¹² Required Actions: Remedial Extent of Deficiency Preclude Recurrence Root Cause Determination

¹³ Recommended Actions:

Clarify in PP-11-01 that all test work initiated by RSN shall be in accordance with PP-01-02. In addition, add a statement that test work requested by another participant shall be in accordance with AP-5.39Q.

⁷ Initiator <i>S. Jones</i> Date <u>7/21/93</u>	¹⁴ Issuance Approved by: QADD <i>[Signature]</i> Date <u>7/27/93</u>
¹⁵ Response Accepted QAR _____ Date _____	¹⁶ Response Accepted QADD _____ Date _____
¹⁷ Amended Response Accepted QAR _____ Date _____	¹⁸ Amended Response Accepted QADD _____ Date _____
¹⁹ Corrective Actions Verified QAR _____ Date _____	²⁰ Closure Approved by: QADD _____ Date _____

**OFFICE OF CIVILIAN
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WASHINGTON, D.C.**

CAR NO. YM-93-080
 DATE: 7/21/93
 PAGE: 2 OF 2
 QA

CORRECTIVE ACTION REQUEST (Continuation Page)

Adverse Condition (continued)

<u>MTL Request No.</u>	<u>MTL Lab. No.</u>	<u>Requested by</u>	<u>Material</u>
S-503	3259-3270	E. Mouser	Shotcrete
S-501	3213-3254	"	"
S-498	3277-3282	"	"
S-497	3271-3276	"	"
S-472	2976-3011	"	"
S-476	3038-3049	"	"
S-490	3168-3173	"	Grout
S-482	3077-3112	"	"
S-481	3074-3076	"	"
S-475	3035-3037	"	"
S-464	2949-2957	"	"
S-516	3387-3392	"	"
GT-98	3182-3189	J. Constable	Rock bolts/chain link fence

Format for Corrective Action Response

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Responsible Manager

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WASHINGTON, D.C.

CAR NO. _____
DATE: _____
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CORRECTIVE ACTION REQUEST (Continuation Page)



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WASHINGTON, D.C.

CAR NO. YM-93-081
DATE: 7/21/93
PAGE: 1 OF 1
QA

CORRECTIVE ACTION REQUEST

¹ Controlling Document
PP-11-01, Rev. 1, General Testing Procedure for the MTL Support

² Related Report No.
YMP-93-13

³ Responsible Organization
RSN

⁴ Discussed With
W. Kopatich & D. Herrington

⁵ Requirement:

PP-11-01, Rev. 1, paragraph 6.4.3 states, "The tests procedure/method (number and revision) shall be referenced on the test report."

Paragraph 6.4.7.2 states, "Test procedure, including number and revision used and source."

⁶ Adverse Condition:

MTL tests reports for: (1) Compression tests as per ASTM C-109; and (2) Core Compression as per ASTM C-42 did not reference the year of the standard test procedure used.

⁹ Does a significant condition adverse to quality exist? Yes__ No X
If Yes, Circle One: A B C

¹⁰ Does a stop work condition exist? Yes__ No X; If Yes - Attach copy of SWC
If Yes, Circle One: A B C D

¹¹ Response Due Date:
20 Working Days
from Issuance

¹² Required Actions: Remedial Extent of Deficiency Preclude Recurrence Root Cause Determination

¹³ Recommended Actions:

Identify the remedial action to be taken to correct the deficiency identified in Block 6.
Identify the extent of the condition and the planned corrective action to prevent recurrence.

⁷ Initiator
S. Dan Date 7/21/93

¹⁴ Issuance Approved by:
QADD *R. K...* Date 7/27/93

¹⁵ Response Accepted
QAR Date

¹⁶ Response Accepted
QADD Date

¹⁷ Amended Response Accepted
QAR Date

¹⁸ Amended Response Accepted
QADD Date

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CAR NO. _____
DATE: _____
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CORRECTIVE ACTION REQUEST (Continuation Page)



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

⁹ CAR NO. YM-93-082
DATE: 7/21/93
PAGE: 1 OF 1
QA

CORRECTIVE ACTION REQUEST

¹ Controlling Document
PP-12-01, Rev. 1, Control of Measuring & Test Equipment

² Related Report No.
YMP-93-13

³ Responsible Organization
RSN

⁴ Discussed With
W. Kopatch & D. Tunney

⁵ Requirement:

PP-12-01, Rev. 1, paragraph 6.2.1 states, "Each M&TE device shall be assigned a unique number. A Calibration History Log (Attachment 1) shall be established and maintained."

Paragraph 6.4.2, states, "A Calibration History Log is maintained by the Equipment Custodian."

⁶ Adverse Condition:

The MTL has not established and therefore has not maintained a Calibration History Log for the Measuring and Test Equipment (M&TE) listed below:
1. Mettler 2000, PTL No. W1063
2. Dial Caliper, PTL No. W6189
3. Tinus Olson, DOE No. 171422
4. Orion ph/mv Meter M651

Discussion:

The M&TE listed above were used to perform tests on YMP samples.

⁹ Does a significant condition adverse to quality exist? Yes___ No X
If Yes, Circle One: A B C

¹⁰ Does a stop work condition exist? Yes___ No X; If Yes - Attach copy of SWC
If Yes, Circle One: A B C D

¹¹ Response Due Date:
20 Working Days
from Issuance

¹² Required Actions: Remedial Extent of Deficiency Preclude Recurrence Root Cause Determination

¹³ Recommended Actions:

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Identify the extent of the condition and the planned corrective action to prevent recurrence.

⁷ Initiator
S. Stone Date 7/21/93

¹⁴ Issuance Approved by:
QADD *[Signature]* Date 7/27/93

¹⁵ Response Accepted
QAR Date

¹⁶ Response Accepted
QADD Date

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WASHINGTON, D.C.

⁸ CAR NO. YM-93-083
DATE: 7/21/93
PAGE: 1 OF 1
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CORRECTIVE ACTION REQUEST

¹ Controlling Document
QAP-16.1(Y), Rev. 1, Deficiency Reporting

² Related Report No.
Audit YMP-93-13

³ Responsible Organization
RSN

⁴ Discussed With
W. Kopatch & D. Tunney

⁵ Requirement:

QAP-16.1(Y), Rev. 1, paragraph 6.2.2.2 states in part, "Requests for extensions of the response date or the effective dates committed by the responding organization shall be justified to QA, in writing, prior to the due date or effective date.

QAP-16.1(Y), Rev. 1, paragraph 6.2.4.3 states, "The QA Personnel performing the verification shall document results or verification activities in Block 20. Intermediate actions shall be initialed and dated by the verifier. When verification is satisfactorily completed, the individual performing the verification shall sign and obtain approval of the SQAYMP, completing Block 20.

⁶ Adverse Condition:

Contrary to the above, extension requests were not submitted for DR-92-O-016, -92-O-014, and -93-O-001 prior to the effective dates, annotated on the DR forms. In addition, it was noted that DR-92-S-003 was given a satisfactory verification when documentation showed that the verification was incomplete and therefore unsatisfactory.

⁹ Does a significant condition adverse to quality exist? Yes ___ No X
If Yes, Circle One: A B C

¹⁰ Does a stop work condition exist? Yes ___ No X; If Yes - Attach copy of SWO
If Yes, Circle One: A B C D

¹¹ Response Due Date:
20 Working Days
from Issuance

¹² Required Actions: Remedial Extent of Deficiency Preclude Recurrence Root Cause Determination

¹³ Recommended Actions:

Identify the remedial action to be taken to correct the deficiency identified in Block 6.
Identify the extent of the condition and the planned corrective action to prevent recurrence.

⁷ Initiator
Lyndell N. Prater Date 7/21/93

¹⁴ Issuance Approved by:
QADD *[Signature]* Date 7/27/93

¹⁵ Response Accepted
QAR _____ Date _____

¹⁶ Response Accepted
QADD _____ Date _____

¹⁷ Amended Response Accepted
QAR _____ Date _____

¹⁸ Amended Response Accepted
QADD _____ Date _____

¹⁹ Corrective Actions Verified
QAR _____ Date _____

²⁰ Closure Approved by:
QADD _____ Date _____

Format for Corrective Action Response

The CAR response shall include the following information:

1. Corrective Action Response for CAR # _____
 - A. Remedial Action - Actions taken to correct specific deficiencies noted.
(Required for all CARs)
 - B. Investigative Action - Actions taken to determine the extent of the condition.
(Required for all significant conditions adverse to quality or any Condition Adverse to Quality if requested by OQA)
 - C. Root Cause Determination - Identification of the root cause of the condition.
(Required for all significant conditions adverse to quality or any Condition Adverse to Quality if requested by OQA)
 - D. Corrective Action to Preclude Recurrence - Actions taken to address the root cause and preclude recurrence of the condition.
(Required for all significant conditions adverse to quality or any Condition Adverse to Quality if requested by OQA)
2. For each action above, identify the name of the individual assigned responsibility for completion and the anticipated (or actual, if complete) completion date.
3. Response Approved: _____ Date: _____
Responsible Manager

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

CAR NO. _____
DATE: _____
PAGE: _____ OF _____
QA

CORRECTIVE ACTION REQUEST (Continuation Page)