



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

SEP 01 1993

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

EVALUATION OF RESPONSES TO CORRECTIVE ACTION REQUEST (CAR) YM-93-077 AND  
YM-93-079 THROUGH YM-93-083, RESULTING FROM YUCCA MOUNTAIN QUALITY ASSURANCE  
DIVISION (YMQAD) AUDIT YMP-93-13 OF RAYTHEON SERVICES NEVADA (SCP: N/A)

The YMQAD staff has evaluated the responses to CARs YM-93-077 and YM-93-079  
through YM-93-083. The responses have been determined to be satisfactory.  
Verification of completion of the corrective actions will be performed after  
the effective dates provided. Any extension to these dates must be requested  
in writing, with appropriate justification, prior to the date. Please send a  
copy of extension requests to Nita J. Brogan, YMQAD/QATSS, 101 Convention  
Center Drive, Suite 640, Las Vegas, Nevada 89109.

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-5852

Enclosures:  
CAR YM-93-077  
CARs YM-93-079 through YM-93-083

cc w/encls:  
K. R. Hooks, NRC, Washington, DC  
S. W. Zimmerman, NWPO, Carson City, NV  
D. J. Tunney, RSN, Las Vegas, NV

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

Add: Ken Hooker  
11

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WM-11  
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YMP-5

9310210152 930901  
PDR WASTE  
WM-11 PDR

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

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

**CORRECTIVE ACTION REQUEST**

<sup>1</sup> Controlling Document AP-5.1Q, Rev. 3, Control & Transfer of Technical Data on the YMP		<sup>2</sup> Related Report No. YMP-93-13
<sup>3</sup> Responsible Organization RSN	<sup>4</sup> Discussed With W. Kopatch & D. Tunney	
<sup>5</sup> 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."		
<sup>6</sup> 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.		
<sup>9</sup> Does a significant condition adverse to quality exist? Yes___ No <u>X</u> If Yes, Circle One: A B C	<sup>10</sup> 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	<sup>11</sup> Response Due Date: 20 Working Days from Issuance
<sup>12</sup> Required Actions: <input checked="" type="checkbox"/> Remedial <input checked="" type="checkbox"/> Extent of Deficiency <input checked="" type="checkbox"/> Preclude Recurrence <input type="checkbox"/> Root Cause Determination		
<sup>13</sup> Recommended Actions:  Evaluate all data acquired by RSN as to appropriateness for inclusion into the Technical Data Base		
<sup>7</sup> Initiator <u>John R. Matras</u> Date <u>7/20/93</u>	<sup>14</sup> Issuance Approved by: QADD <u>AC Spruce</u> Date <u>7/27/93</u>	
<sup>15</sup> Response Accepted QAR <u>John R. Matras</u> Date <u>8/25/93</u>	<sup>16</sup> Response Accepted QADD <u>AC Spruce</u> Date <u>8/31/93</u>	
<sup>17</sup> Amended Response Accepted QAR _____ Date _____	<sup>18</sup> Amended Response Accepted QADD _____ Date _____	
<sup>19</sup> Corrective Actions Verified QAR _____ Date _____	<sup>20</sup> Closure Approved by: QADD _____ Date _____	

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

CAR NO. YM-93-077  
DATE: 8-23-93  
PAGE: 1 OF 1  
QA

**CORRECTIVE ACTION REQUEST (Continuation Page)**

A. REMEDIAL:

RSN shall complete the TDIF in accordance with AP-5.1Q for the North Ramp Geologic NRG-1 work and submit it to the Technical Database. This will be accomplished by September 7, 1993.

B. INVESTIGATIVE ACTIONS:

RSN will evaluate all data acquired as to its appropriateness for inclusion into the Technical Database. Upon completion of the investigation, the appropriate data shall be submitted to the Technical Database in accordance with AP-5.1Q. This investigative action shall be completed by September 30, 1993.

C. ROOT CAUSE DETERMINATION:

No response required.

D. CORRECTIVE ACTION TO PRECLUDE RECURRENCE:

A self-study shall be re-conducted with the understanding that the information supplied by the Survey Department is considered technical data, and must be transmitted to the Technical Database in accordance with AP-5.1Q. This self-study shall be completed by September 30, 1993.

Response Approved: WCK [Signature]  
Responsible Manager

RL Schreiner

Date 8/24/93

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

<sup>8</sup> CAR NO. YM-93-079  
DATE: 7/21/93  
PAGE: 1 OF 1  
QA

**CORRECTIVE ACTION REQUEST**

<sup>1</sup> Controlling Document  
PP-06-01, Rev. 1, Controlled Document Distribution

<sup>2</sup> Related Report No.  
YMP-93-13

<sup>3</sup> Responsible Organization  
RSN

<sup>4</sup> Discussed With  
W. Kopatch

<sup>5</sup> 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."

<sup>6</sup> 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

<sup>9</sup> Does a significant condition  
adverse to quality exist? Yes\_\_ No X  
If Yes, Circle One: A B C

<sup>10</sup> Does a stop work condition exist?  
Yes\_\_ No X; If Yes - Attach copy of SWC  
If Yes, Circle One: A B C D

<sup>11</sup> Response Due Date:  
20 Working Days  
from Issuance

<sup>12</sup> Required Actions: ☒ Remedial ☒ Extent of Deficiency ☒ Preclude Recurrence ☐ Root Cause Determination

<sup>13</sup> 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.

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

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

<sup>15</sup> Response Accepted  
QAR *[Signature]* Date 8/26/93

<sup>16</sup> Response Accepted  
QADD *[Signature]* Date 8/31/93

<sup>17</sup> Amended Response Accepted  
QAR Date

<sup>18</sup> Amended Response Accepted  
QADD Date

<sup>19</sup> Corrective Actions Verified  
QAR Date

<sup>20</sup> Closure Approved by:  
QADD Date

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

CAR NO. YM-93-079  
DATE: 8-23-93  
PAGE: 1 OF 1  
QA

**CORRECTIVE ACTION REQUEST (Continuation Page)**

A. REMEDIAL:

Written notification was transmitted on 7/27/93 to Mr. A. Smith to return the completed transmittal forms or he would either be removed from the controlled distribution list or his manual decontrolled.

The document received by B. Gardella will be decontrolled.

B. INVESTIGATIVE ACTIONS:

An investigation will be done of all the controlled documents issued to date to determine the extent of the deficiency. Either follow-up notification will be transmitted or the individual will be removed from the controlled distribution list. This investigation will be completed by September 30, 1993.

C. ROOT CAUSE DETERMINATION:

No response required.

D. CORRECTIVE ACTION TO PRECLUDE RECURRENCE:

The documents that require controlled distribution shall be monitored more closely to ensure that there is not a recurrence of this situation. A stricter adherence to the procedure shall be invoked.

Response Approved: \_\_\_\_\_

Responsible Manager

For RL Schreiner

Date

8/24/93

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

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

**CORRECTIVE ACTION REQUEST**

<sup>1</sup> Controlling Document  
PP-11-01, Rev. 1 & PP-01-02, Rev. 1

<sup>2</sup> Related Report No.  
YMP-93-13

<sup>3</sup> Responsible Organization  
RSN

<sup>4</sup> Discussed With  
W. Kopatich & D. Herrington

<sup>5</sup> 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."

<sup>6</sup> 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

<sup>9</sup> Does a significant condition adverse to quality exist? Yes\_\_\_ No X  
If Yes, Circle One: A B C

<sup>10</sup> Does a stop work condition exist? Yes\_\_\_ No X; If Yes - Attach copy of SWC  
If Yes, Circle One: A B C D

<sup>11</sup> Response Due Date:  
20 Working Days  
from Issuance

<sup>12</sup> Required Actions: ☒ Remedial ☒ Extent of Deficiency ☒ Preclude Recurrence ☐ Root Cause Determination

<sup>13</sup> 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.

<sup>7</sup> Initiator

*S. Davis*

Date 7/21/93

<sup>14</sup> Issuance Approved by:

QADD *R. Kopatich*

Date 7/27/93

<sup>15</sup> Response Accepted

QAR

*S. Davis*

Date 8/26/93

<sup>16</sup> Response Accepted

QADD *R. Kopatich*

Date 8/31/93

<sup>17</sup> Amended Response Accepted

QAR

Date

<sup>18</sup> Amended Response Accepted

QADD

Date

<sup>19</sup> Corrective Actions Verified

QAR

Date

<sup>20</sup> Closure Approved by:

QADD

Date

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

CAR NO. YM-93-080  
DATE: 7/21/93  
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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

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

CAR NO. YM-93-080

DATE: 8-23-93

PAGE: 1 OF 1

QA

**CORRECTIVE ACTION REQUEST (Continuation Page)**

A. REMEDIAL:

The RSN/YMP Procedure PP-11-01 will be clarified and the work initiated by RSN departments will be in accordance with Procedure PP-01-02.

PP-11-01 will be revised by September 30, 1993.

B. INVESTIGATIVE ACTIONS:

Negligible. Work Initiations (WI) are an RSN internal work control document. No RSN/YMP quality affecting items or work were affected.

C. ROOT CAUSE DETERMINATION:

No response required.

D. CORRECTIVE ACTION TO PRECLUDE RECURRENCE:

The procedural changes in YMP Procedure PP-11-01, in reference to the Work Initiations, will be completed and issued. Also, all other YMP participants requesting the test work will be required to follow AP-5.39Q procedural requirements.

Response Approved: \_\_\_\_\_

P. E. Watson  
Responsible Manager

Date 8/23/93



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

<sup>8</sup> CAR NO. YM-93-081  
DATE: 7/21/93  
PAGE: 1 OF 1  
QA

**CORRECTIVE ACTION REQUEST**

<sup>1</sup> Controlling Document  
PP-11-01, Rev. 1, General Testing Procedure for the MTL Support  
<sup>2</sup> Related Report No.  
YMP-93-13

<sup>3</sup> Responsible Organization  
RSN  
<sup>4</sup> Discussed With  
W. Kopatich & D. Herrington

<sup>5</sup> 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."

<sup>6</sup> 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.

<sup>9</sup> Does a significant condition adverse to quality exist? Yes\_\_\_ No X  
If Yes, Circle One: A B C  
<sup>10</sup> Does a stop work condition exist? Yes\_\_\_ No X; If Yes - Attach copy of SWC  
If Yes, Circle One: A B C D  
<sup>11</sup> Response Due Date:  
20 Working Days from Issuance

<sup>12</sup> Required Actions: ☒ Remedial ☒ Extent of Deficiency ☒ Preclude Recurrence ☐ Root Cause Determination

<sup>13</sup> 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.

<sup>7</sup> Initiator <i>S. Davis</i> Date 7/21/93	<sup>14</sup> Issuance Approved by: QADD <i>R. Kopatich</i> Date 7/27/93
<sup>15</sup> Response Accepted QAR <i>S. Davis</i> Date 8/27/93	<sup>16</sup> Response Accepted QADD <i>R. Kopatich</i> Date 8/31/93
<sup>17</sup> Amended Response Accepted QAR Date	<sup>18</sup> Amended Response Accepted QADD Date
<sup>19</sup> Corrective Actions Verified QAR Date	<sup>20</sup> Closure Approved by: QADD Date

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

CAR NO. YM-93-081

DATE: 8-23-93

PAGE: 1 OF 1  
QA

**CORRECTIVE ACTION REQUEST (Continuation Page)**

**A. REMEDIAL:**

All MTL blank test report forms will be revised to include the procedure issue reference year. These blank report forms will be updated, as required, as per the specific test procedures used on various YMP projects by September 30, 1993.

All RSN/YMP MTL test reports were reviewed and the procedure issue reference year added where applicable. All affected MTL tests conducted in accordance with RSN/YMP Procedure PP-11-01 will be resubmitted as a revision to the YMP records by September 30, 1993.

**B. INVESTIGATIVE ACTIONS:**

Minor. No RSN/YMP quality affecting work was compromised by the omission of the procedure issue reference year.

All YMP MTL reports issued in the Geotechnical Section of the MTL contained procedure reference years. The procedure years were missing on some of the reports issued by the Soils, Asphalt, and Concrete Section.

**C. ROOT CAUSE DETERMINATION:**

No response required.

**D. CORRECTIVE ACTION TO PRECLUDE RECURRENCE:**

A memo was issued to all MTL employees re-stating the requirements of the procedure reference year on the reports, as per YMP Procedure PP-11-01.

The RSN/YMP Manager, Field Operations, will verify to ensure that the procedure issue reference year is included prior to submittal of MTL test reports to the YMP Records Center for all work conducted in accordance with RSN/YMP Procedure PP-11-01.

Response Approved:

P. E. Watson  
Responsible Manager

Date

8/23/93

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

<sup>8</sup> CAR NO. YM-93-082  
DATE: 7/21/93  
PAGE: 1 OF 1  
QA

**CORRECTIVE ACTION REQUEST**

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

<sup>2</sup> Related Report No.  
YMP-93-13

<sup>3</sup> Responsible Organization  
RSN

<sup>4</sup> Discussed With  
W. Kopatch & D. Tunney

<sup>5</sup> 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."

<sup>6</sup> 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.

<sup>9</sup> Does a significant condition adverse to quality exist? Yes No X ; If Yes - Attach copy of SWC  
If Yes, Circle One: A B C

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

<sup>11</sup> Response Due Date:  
20 Working Days from Issuance

<sup>12</sup> Required Actions: ☒ Remedial ☒ Extent of Deficiency ☒ Preclude Recurrence ☐ Root Cause Determination

<sup>13</sup> 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.

<sup>7</sup> Initiator <i>S. Jones</i> Date <u>7/21/93</u>	<sup>14</sup> Issuance Approved by: <i>RC. Prince</i> QADD <u>RC. Prince Date <u>7/27/93</u></u>
<sup>15</sup> Response Accepted QAR <i>S. Jones</i> Date <u>8/27/93</u>	<sup>16</sup> Response Accepted QADD <i>RC. Prince</i> Date <u>8/31/93</u>
<sup>17</sup> Amended Response Accepted QAR _____ Date _____	<sup>18</sup> Amended Response Accepted QADD _____ Date _____
<sup>19</sup> Corrective Actions Verified QAR _____ Date _____	<sup>20</sup> Closure Approved by: QADD _____ Date _____

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WASHINGTON, D.C.

CAR NO. YM-93-082  
DATE: 8-23-93  
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**CORRECTIVE ACTION REQUEST (Continuation Page)**

A. REMEDIAL:

The MTL has prepared the history logs for all M&TE used at the MTL and all equipment used on YMP samples. It should be noted that there is no calibration history log for the Orion pH meter M-651, since this meter is accuracy checked against the standards every time it is used.

B. INVESTIGATIVE ACTIONS:

Minor. All MTL M&TE has been and is calibrated on a routine basis. However, a calibration history log was not prepared for all weapons owned M&TE. The four items cited in the CAR are weapons owned equipment. Calibration history logs for the items cited are now complete.

Calibration logs for all YMP owned M&TE was already existing.

No quality affecting work was compromised by the omission of calibration logs for these four items.

C. ROOT CAUSE DETERMINATION:

No response required.

D. CORRECTIVE ACTION TO PRECLUDE RECURRENCE:

Calibration history logs will be maintained for all M&TE used on RSN/YMP quality affecting work.

Response Approved: \_\_\_\_\_

Lee E. Watson  
Responsible Manager

Date \_\_\_\_\_

8/23/93

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

**<sup>8</sup> CAR NO.** YM-93-083  
**DATE:** 7/21/93  
**PAGE:** 1 **OF** 1  
**QA**

**CORRECTIVE ACTION REQUEST**

**<sup>1</sup> Controlling Document**  
QAP-16.1(Y), Rev. 1, Deficiency Reporting

**<sup>2</sup> Related Report No.**  
Audit YMP-93-13

**<sup>3</sup> Responsible Organization**  
RSN

**<sup>4</sup> Discussed With**  
W. Kopatich & D. Tunney

**<sup>5</sup> 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.

**<sup>6</sup> 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.

**<sup>9</sup> Does a significant condition adverse to quality exist?** Yes ☐ No X  
If Yes, Circle One: A B C

**<sup>10</sup> Does a stop work condition exist?** Yes ☐ No X; If Yes - Attach copy of SWC  
If Yes, Circle One: A B C D

**<sup>11</sup> Response Due Date:**  
20 Working Days  
from Issuance

**<sup>12</sup> Required Actions:** ☒ Remedial ☒ Extent of Deficiency ☒ Preclude Recurrence ☐ Root Cause Determination

**<sup>13</sup> 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.

**<sup>7</sup> Initiator**  
*Cynthia A. Prater* Date 7/21/93

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

**<sup>15</sup> Response Accepted**  
QAR *Cynthia A. Prater* Date 8/6/93

**<sup>16</sup> Response Accepted**  
QADD *[Signature]* Date 8/31/93

**<sup>17</sup> Amended Response Accepted**  
QAR \_\_\_\_\_ Date \_\_\_\_\_

**<sup>18</sup> Amended Response Accepted**  
QADD \_\_\_\_\_ Date \_\_\_\_\_

**<sup>19</sup> Corrective Actions Verified**  
QAR \_\_\_\_\_ Date \_\_\_\_\_

**<sup>20</sup> Closure Approved by:**  
QADD \_\_\_\_\_ Date \_\_\_\_\_

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

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**CORRECTIVE ACTION REQUEST (Continuation Page)**

**PART 1 - EXTENSION REQUESTS SUBMITTED LATE**

**A. REMEDIAL ACTIONS**

A letter will be issued to RSN management personnel advising them of the importance of meeting due dates for extension requests.

**B. INVESTIGATIVE ACTIONS**

The Deficiency Report files have been reviewed to determine the extent of the deficiency. The following deficiency reports had late extension(s) or no extension requests for responding to the deficiency report and/or completing the corrective action:

1.	91-S-001	9.	91-A-017	17.	92-S-006
2.	91-S-002	10.	91-O-027	18.	92-S-007
3.	91-S-003	11.	91-S-033	19.	92-O-014
4.	91-S-005	12.	91-S-035	20.	92-O-016
5.	91-A-008	13.	91-A-036	21.	92-O-017
6.	91-A-012	14.	92-S-003	22.	93-A-003
7.	91-A-014	15.	92-O-004	23.	93-A-004
8.	91-A-016	16.	92-S-005		

**D. CORRECTIVE ACTION TO PREVENT RECURRENCE**

A letter will be issued to RSN management personnel advising them of the importance of meeting due dates for extension requests.

RESPONSIBLE INDIVIDUALS D. J. Tunney and R. L. Schreiner

COMPLETION DATE: September 10, 1993

**PART 2 - MEMO ISSUED INDICATING UNSATISFACTORY AND NOT INDICATED  
AS SUCH ON THE DEFICIENCY REPORT**

**A. REMEDIAL ACTIONS**

DR-92-S-003 has been annotated to show that the verification was unacceptable. This Deficiency Report has been resubmitted as a corrected record.

**B. INVESTIGATIVE ACTION**


The deficiency report files were reviewed and no other instances of this deficiency were detected.

**D. CORRECTIVE ACTION TO PREVENT RECURRENCE**

A letter has been issued to RSN YMP Quality Assurance personnel reminding them of the requirement for documenting intermediate corrective action verifications.

RESPONSIBLE INDIVIDUAL D. J. Tunney

COMPLETION DATE: 08/17/93

Response Approved:   
Technical Project Officer

Date: 8/24/93