



Department of Energy

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

APR 27 1995

L. Dale 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

VERIFICATION OF CORRECTIVE ACTION AND CLOSURE OF CORRECTIVE ACTION REQUEST (CAR) YM-94-062 RESULTING FROM YUCCA MOUNTAIN QUALITY ASSURANCE DIVISION'S (YMQAD) AUDIT YMP-94-01 OF THE CIVILIAN RADIOACTIVE WASTE MANAGEMENT SYSTEM MANAGEMENT AND OPERATING CONTRACTOR (SCPB: N/A)

The YMQAD staff has verified the corrective action to CAR YM-94-062 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 E. Powe at 794-7749.

Robert B. Constable

Richard E. Spence, Director
Yucca Mountain Quality Assurance Division

YMQAD:RBC-3081

Enclosure:
CAR YM-94-062

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

cc w/o encl:
W. L. Belke, NRC, Las Vegas, NV
D. G. Sult, YMQAD/QATSS, Las Vegas, NV

9505020355 950427
PDR WASTE
WM-11 PDR

102.7
WM-11
N403

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

8 CAR NO.: YH-94-062
PAGE: 1 OF 2
QA

CORRECTIVE ACTION REQUEST

1 Controlling Document QAP-3-8, R4; QAP-3-9, R4; QAP-3-10, R4		2 Related Report No. YMP-94-01	
3 Responsible Organization M&O		4 Discussed With P. Hastings/J. Keifer/J. Clark	
5 Requirement: M&O QAP-3-8, Revision 4, Paragraph 5.3.5 states in part: "The originator shall: ...C. Modify the specification as required for comment resolution." and Paragraph 5.3.6 states in part: "The reviewer shall...A. Backcheck the specification against the Interdiscipline Review copy." M&O QAP-3-9, Revision 4, Paragraph 5.8 describes Design Analysis Approval.			
6 Adverse Condition: Several errors/inconsistencies in design specifications, drawings, and calculations. Discussion: In addition to the examples below, the M&O needs to refer to M&O CARs 94-QN-C-049 and 94-QN-C-050. Examples: - Drawing BABFAE000-01717-2100-45301, Revision 00, "Subsurface Water Distribution System Flow Diagram," has two references with the same document identifier by different titles: 45304, Surface/Subsurface Interface GA. Plan and Sections Drawing; and 45304, TS North Ramp Tunnel Utilities GA. Sections and Details Drawing. - Analysis BABEAF000-01717-0200-00002, Revision 00, "Structural Steel Sets Analysis": a. References the wrong "Section Numbers": Section 8.9 vs. 8.11. b. TBV-192 is referenced at the end of Paragraph 7.2 but is only applicable to the first sentence of the paragraph.			
9 Does a Significant Condition Adverse to Quality exist? Yes ___ No <u>X</u> If Yes, Check One: <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E		10 Does a stop work condition exist? Yes ___ No <u>X</u> ; If Yes - Attach copy of SWO If Yes, Check One: <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C	
3 Response Due Date: 20 Working Days From Issuance			
11 Required Actions: <input checked="" type="checkbox"/> Remedial <input checked="" type="checkbox"/> Extent of Deficiency <input checked="" type="checkbox"/> Preclude Recurrence <input checked="" type="checkbox"/> Root Cause Determination			
12 Recommended Actions: 1) Correct the examples. 2) Investigate to determine the extent of deficiency (believed to go beyond Design Package 2C). 3) Determine root cause. 4) Take action to preclude the deficiency (e.g., training).			
7 Initiator Richard E. Powe <i>RE Powe</i> 8/4/94		14 Issuance Approved by: QADD <i>[Signature]</i> Date 8.5.94	
15 Response Accepted QAR <i>RE Powe</i> Date 8/29/94		16 Response Accepted QADD <i>[Signature]</i> Date 9.1.94	
17 Amended Response Accepted QAR <i>RE Powe</i> Date 1/5/95		18 Amended Response Accepted QADD <i>[Signature]</i> Date 4.27.95	
19 Corrective Actions Verified QAR <i>RE Powe</i> Date 4/26/95		20 Closure Approved by: QADD <i>[Signature]</i> Date 4.27.95	

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RADIOACTIVE WASTE MANAGEMENT
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WASHINGTON, D.C.

8 CAR NO.: YM-94-062

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CORRECTIVE ACTION REQUEST (CONTINUATION PAGE)

5 Requirements (continued)

M&O QAP-3-10, Revision 4, Paragraph 5.3 describes Final Checking of Drawings.

6 Adverse Condition (continued)

- Specification BABE00000-01717-6300-02165, Revision 3, "Rockbolts and Accessories," Paragraph 1.04C was revised to resolve QA comments during interdisciplinary review and the "agreed to" comments were not properly incorporated.
- Analysis BAB000000-01717-2200-00005, Revision 0, "Determination of Importance Evaluation (DIE) for Package 2C."
 - * Requirement 12 on Page 49 is not as conservative as Waste Isolation Evaluation BABE00000-01717-2200-00008, "Construction Water for Package 2C Excavation of the ESF North Ramp," these values should be reconciled.
 - * QAP-2-3, Revision 6, "Classification of Permanent Items," Attachment I, Classification Checklist for MGDS, Question 1.3 states: "Is the item a consumable/ expendable item which is part of, or contained within, and affects the safety function of any component identified in Section 1.1 or 1.2 above." This checklist for DIE BABEAB000-01717-2200-00005 was checked "No"; however, Specification BABEAB000-01717-6300-02341, "Steel Sets and Accessories Subsurface," calls for the use of weld material, i.e., it appears weld material was not evaluated.
 - * 2C DIE, Page 11 states that "Mechanical (such as Williams type) rock bolts are to be pretensioned and grouted from the drill/cleaning platform." This is not consistent with the notes contained in Drawings BABEAB000-01717-2100-40151 and BABEAB000-01717-2100-40152.
 - * 2C DIE, Page 11 states that cementitious grouting pressures and quantities are to be limited to the extent practical for rockbolt installation (see Attachment II of the DIE). The DIE inconsistently refers to this as a waste isolation issue, not a test interference issue.

RESPONSE TO CAR NO. YM-94-062

Remedial Action:

The remedial action will be:

- 1). To make corrections to those documents listed under Block #6 of this CAR.
- 2). Also, all 2C design products containing errors will be revised and will be rechecked in the process of releasing Package 2C to DOE for approval including errors identified in M&O CARs 94-QN-C-049 and 94-QN-C-050.
- 3). MGDS does not agree that the example in Item 2B, identified in Block 6 is an error. Therefore, no further action is required.

Responsible Individual: Robert Saunders
Date of Completion: 9/30/94 (Anticipated Date of 2C Release)

Investigative Action:

- 1). Investigative action is ongoing and includes checking of all 2C design products by originators to incorporate comments resulting from an M&O Surveillance conducted the week of July 18, 1994, a parallel check is being made by W. French, et al, of ESF Surface Design.
- 2). A discipline check, interdiscipline review (when required), and final checking will be performed on all Package 2C Design Products requiring revision before the package is re-issued.
- 3). The checking and interdiscipline reviews are completed before the 90% design review in the current design control process. Many discrepancies being identified indicate they are a result of incorporating 90% design review comments.

Root Cause Determination:

The root cause is the addition of disruptive events to the design schedule resulting in a tight schedule for preparation of Package 2C. The tight schedule resulted in excessive programmatic errors, however, no significant technical errors have been discovered. The design schedule was impacted by non-design activities. Significant revisions of QAP procedures compounded compliance problems since these significant revisions occurred during review of 2C Design Products, and lack of a clear pathway to mitigate the impact of the QAP revisions on Package 2C.

8/17/94

LV. ESSB. GH. 8/94-729

Corrective Action to Preclude Recurrence:

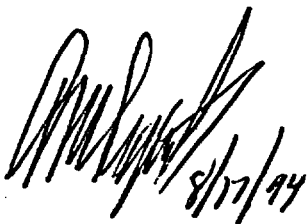
- 1.) The M&O will review the design control process, placing emphasis on improving the discipline checking and interdiscipline review steps. The design control process will be revised to move the checking and interdiscipline reviews after the 90% design review. Appropriate procedures will be revised to reflect the revised design control process.
- 2). M&O design personnel will be retrained to the revised procedures describing the revised design control process.

Responsible Individual: Stan Bailey
Date of Completion: 1/31/95

DISCUSSION:

M&O CARS 94-QN-C-049 and 94-QN-C-050 have been reviewed in detail and are considered relative for the required fix to the present design control process. They are specific towards discrepancies found during interdiscipline reviews. CAR YM-94-062 is specific towards discrepancies that should have been found during the checking process.

As stated in Corrective Action to Preclude Recurrence Item 1 above, the design control process will be revised to move the checking and interdiscipline reviews after the 90% design review. MGDS believes the revised sequence of these reviews will limit future errors similar to those identified in the CARs.


8/17/94

Evaluation of response to CAR YM-94-062

Response is acceptable with the following understanding:

In order to make the linkage between root cause and the corrective action OQA is assuming the "Schedule" difficulties mentioned in the root cause statement are the sequencing of the design process; however, during verification OQA will be checking the corrective action "retraining" commitment to see if the training includes a discussion regarding the need to pay particular attention to detail of the process/procedure even if it means not meeting a deadline.

R. E. Powe
R. E. Powe, QAR

8/24/94
Date

Evaluation of Amended Response to CAR YM-94-062

Ref: Ltr LV.ESSB.GH.12/94-870, Foust to Nelson, dtd 12/20/94

On December 28, 1994 the Office of Quality Assurance received the above referenced letter which amended the previously accepted response to the subject CAR by changing the Corrective Action to Prevent Recurrence and changing the expected completion date from 1/31/95 to 3/3/95. Except for the new expected completion date, this amended response is acceptable. Insufficient information was provided to justify extension of corrective action beyond 1/31/95.

It has been 6 months since this CAR was issued. Any further extension of time for corrective action will need to be discussed with the Director, Office of Quality Assurance and the Assistant Manager, Engineering and Field Operations.

K E Bone
12/29/94

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WASHINGTON, D.C.

CAR NO. _____
PAGE _____ OF _____
QA

CORRECTIVE ACTION REQUEST (CONTINUATION PAGE)

Follow-up Verification on Corrective Action Resulting from CAR YM-94-062

REMEDIAL ACTION

1. Drawing BABFAE000-01717-2100-45301, Revision 00, "Subsurface Water Distribution System Flow Diagram" was revised to delete reference to document identifier 45304.
2. Analysis BABEAF000-01717-00002, Revision 00, "Structural Steel Sets Analysis" was corrected to reflect the correct section numbers.
3. Specification BABE00000-01717-6300-02165, Revision 3, "Rockbolts and Accessories" Paragraph 1.04C was revised to reflect the interdisciplinary review comments.
4. DIE Analysis BAB000000- 01717-2200-00005, Revision 0, "Determination of Importance Evaluation for Package 2C was revised to: reconcile the values for construction water; provide an evaluation of weld material; clarify installation of Williams type rock bolts; and remove any reference as to type of issue, waste isolation versus test interference.
5. M&O CARs 94-QN-C-049 and 94-QN-C-050 were verified as CLOSED.

PREVENTATIVE ACTION

1. M&O Procedures QAP 3-0, 3-8, 3-9, and 3-10 were revised to clarify the design process.
2. The M&O MGDS Development performed an evaluation of the identified deficiencies for impact on other previously released design packages as part of corrective action associated with M&O CARs 94-QN-C-049 and 94-QN-C-050 (Refer to attached Letter LV.ESSB.RMS.12/94-0869 dated 12/7/94)
3. Training was performed for the revised 3-series procedures (Refer to Letter YMQAD:RBC-2540, Horton to Robertson, dated 3/20/95, Verification of Corrective Action and Closure of CAR YM-95-007). NOTE: As early as 8/13/93 M&O

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CAR NO. _____
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QA

CORRECTIVE ACTION REQUEST (CONTINUATION PAGE)

management has been stressing the importance of 100% compliance with all requirements regardless of schedule pressures (Refer to attached Letter LV.MG.RMS.8/93-133, Foust to All Nevada Site Personnel, dated 8/13/93)

CONCLUSION

This CAR is considered **CLOSED**.



Richard E. Powe, Quality Assurance Representative

4/26/95

Date

Interoffice Correspondence
Civilian Radioactive Waste Management System
Management & Operating Contractor



TRW Environmental
Safety Systems Inc.

WBS:1.2.6
QA: N/A

Subject:
Product review for CAR's
94-QN-C-049, 94-QN-C-
050, and YM-94-065
(SCP:N/A)

Date:
December 7, 1994
LV.ESSB.RMS.12/94-869

From: *RmStambaugh*
R. M. Stambaugh

To:
R. Saunders, TES3/423

cc: w/attach
G. Heaney, TES3/423
P. Jones, TES3/423
LVRPC

Location/Phone:
TES3/530
(702) 794-7001

w/o attach
M. DeLeon, TES3/423
J. Naaf, TES3/423
R. Saunders, TES3/423

A review was performed on "Issued For Construction" 2C package Q products to ensure that discipline and inter-discipline review comments were resolved. In summary, the following observations were made based on this review:

- 1) In most cases, discipline and interdiscipline review comments were found to be incorporated or adequately resolved.
- 2) A few isolated cases were identified where comment resolution was not clearly indicated. This was generally due to the product changing so substantially that it was near impossible to verify comment-by-comment resolution. Comment resolution in these cases were dispositioned on the product for clarity.
- 3) All other unresolved comments identified during the review were incorporated on the final product revision.
- 4) All Q "Issued For Construction" products were found to be complete; no records had been discarded or lost.

An investigation was conducted to ensure that the deficiencies identified in the subject CARs did not exist in other Q products prepared or revised by the M&O. The 1A package was the only other to contain Q products. This consisted of the following:

December 7, 1994

Page 2

YMP-025-1-MING-MG-120 Rev 1 (*)
YMP-025-1-MING-MG-121 Rev 3
YMP-025-1-MING-MG-122 Rev 2 (*)
YMP-025-1-MING-MG-123 Rev 4
YMP-025-1-MING-MG-125 Rev 3
YMP-025-1-MING-MG-128 Rev 3
YMP-025-1-MING-MG-130 Rev 1 (*)
YMP-025-1-MING-MG-142 Rev 3 (*)
YMP-025-1-MING-MG-143 Rev 3
YMP-025-1-MING-MG-151 Rev 1 (*)
YMP-025-1-MING-MG-152 Rev 1 (*)
YMP-025-1-MING-MG-153 Rev 1 (*)
YMP-025-1-MING-MG-154 Rev 1 (*)
YMP-025-1-MING-MG-160 Rev 0
YMP-025-1-MING-MG-165 Rev 0

All discipline review comments were found to be adequately incorporated or resolved. The drawings with asterisks (*) above did not have interdiscipline (ID) reviews. All other ID review comments were resolved adequately.

If you have any questions or concerns call me at 4-7001.

RMS:cam

Comment Resolution Review

Document Identifier	Comments Resolved Adequately	Reqd Clarification for Comment Resolution	Reqd Product Revision to Incorporate Unresolved Comments	Remarks
<u>Drawings</u>				
BABEAD000-01717-2100-40111 (Q)	X			
BABEAD000-01717-2100-40112 (Q)	X			
BABEAD000-01717-2100-40113 (Q)	X			
BABEAD000-01717-2100-40114 (Q)	X			
BABEAD000-01717-2100-40115 (Q)	X			
BABEAD000-01717-2100-40116 (Q)	X			
BABEAD000-01717-2100-40121 (Q)	X			
BABEAD000-01717-2100-40122 (Q)	X			
BABEAD000-01717-2100-40123 (Q)	X			
BABEAD000-01717-2100-40124 (Q)	X			
BABEAD000-01717-2100-40126 (Q)	X			
BABEAD000-01717-2100-40127 (Q)	X			
BABEAD000-01717-2100-40128 (Q)	X			
BABEAD000-01717-2100-40129 (Q)	X			
BABEAB000-01717-2100-40151 (Q)	X			
BABEAB000-01717-2100-40152 (Q)	X			
BABEAB000-01717-2100-40153 (Q)	X			
BABEAB000-01717-2100-40154 (Q)	X			
BABEAB000-01717-2100-40155 (Q)	X			
BABEAB000-01717-2100-40156 (Q)	X			
BABEAB000-01717-2100-40157 (Q)		X		
BABEAB000-01717-2100-40161 (Q)			X	
BABEAB000-01717-2100-40162 (Q)		X		
BABEAB000-01717-2100-40163 (Q)	X			See Ltr #768

Comment Resolution Review

Document Identifier	Comments Resolved Adequately	Reqd Clarification for Comment Resolution	Reqd Product Revision to Incorporate Unresolved Comments	Remarks
<u>Analyses</u>				
BABE00000-01717-0200-00004 (Q)			X	
BABEAB000-01717-0200-00002 (Q)			X	
BABEAB000-01717-0200-00003 (Q)			X	
BABEAB000-01717-0200-00004 (Q)	X			
BABEAB000-01717-0200-00005 (Q)	X			
BABEAB000-01717-0200-00006 (Q)	X			
BABEAB000-01717-0200-00009 (Q)			X	
BABEAB000-01717-0200-00010 (Q)		X		
BABEAD000-01717-0200-00003 (Q)	X			
<u>Specifications</u>				
BAB000000-01717-6300-01014	X			
BAB000000-01717-6300-01400 (Q)		X		
BAB000000-01717-6300-01501 (Q)		X		See letter #769 See letter #141
BAB000000-01717-6300-02165 (Q)			X	
BABEAB000-01717-6300-02341 (Q)			X	
BABEAB000-01717-6300-03362 (Q)	X			
BABEAB000-01717-6300-03363 (Q)	X			
BABEAB000-01717-6300-03601 (Q)	On Hold			See Ltr #774
BABEAD000-01717-6300-02313 (Q)	X			

Comment Resolution Review

Document Identifier	Comments Resolved Adequately	Reqd Clarification for Comment Resolution	Reqd Product Revision to Incorporate Unresolved Comments	Remarks
BABEAB000-01717-2100-41101 (Q)		X		
BABEAB000-01717-2100-41102 (Q)		X		
BABEAB000-01717-2100-41103 (Q)		X		
BABEAC000-01717-2100-41111 (Q)	X			
BABEAC000-01717-2100-41121 (Q)	X			
BABEAC000-01717-2100-41130 (Q)	X			
BABEAD000-01717-2100-40100 (Q)	X			
BABEAD000-01717-2100-40104 (Q)	X			
BABEAD000-01717-2100-40110 (Q)	X			
BABEAD000-01717-2100-40120 (Q)	X			

**Interoffice Correspondence
Civilian Radioactive Waste Management System
Management & Operating Contractor**



TRW Environmental
Safety Systems Inc.

WBS: 1.2.6
QA: Q/A

Subject:
Specification BAB000000-01717-
6300-01400 Rev. 02 Review
History

Date:
September 16, 1994
LV.ESSB.RS.9/94-141

From:
Roberta Stambaugh
R. Stambaugh

To:
File

cc:
G. Heaney, TES3/423
J. M. Taipale, TES3/423
LVLRC

Location/Phone:
TES3/530R
(702) 794-7001

This IOC is to document the review history of the subject specification as part of corrective actions to CAR #YM-94-065.

Unlike other Package 2C documents, BAB000000-01717-6300-01400 Rev. 02 was not yet approved when the 2C package was withdrawn in August 1994. Because other 2C documents were approved and forwarded for baselining, it was necessary for them to go through the standard revision cycle. However, for the 01400 specification, various changes were made during the revision process that required sending it back through interdisciplinary (ID) review (i.e., DIE changes, impact from 2C package documents, etc.).

Therefore, that is the reason for the generation of four (4) separate Specification Review Summary records (dated between April to August 1994 - two of which were located in EDC).

Checker review copies for the three oldest reviews could not be located for verification of incorporation of comments. However, evidence that the checker was satisfied with comment incorporation is shown on the Specification Review Summary records. The "Check Copy" was retained for the latest review (8/26/94) and all comments were verified as being incorporated.

The ID review copies for reviews completed in April, May-June, and August were retained and comments verified to be incorporated. The ID review copy for reviews conducted July 7, 1994 could not be located. However, evidence that comments were incorporated to the reviewers' satisfaction is shown on the Specification Review Summary record.

RS:sas

Interoffice Correspondence
Civilian Radioactive Waste Management System
Management & Operating Contractor



TRW Environmental
Safety Systems Inc.

WBS: 1.2.6
QA: QA

Subject:
Specification Checking
Process
(SCP:N/A)

Date:
September 15, 1994
LV.ESSB.RS.9/94-769

From:
Roberta Stambaugh
RmStambaugh

To:
Distribution

cc:
See Below
LVLRC

Location/Phone:
TES3/423
(702) 794-5389

As part of the response to CAR # YM-94-065, an investigation was conducted to determine whether all checker and interdisciplinary reviewers comments were adequately incorporated into Specification BAB000000-01717-6300-01014 Rev 00. It was determined that no check was performed as required prior to interdisciplinary (ID) review. However, all ID reviewer comments were incorporated in Rev. 00. Since Rev. 00 was never issued, no adverse impact exists because a check was performed while preparing for Rev. 01 issuance.

Distribution:

G. Heaney, TES3/423
J. L. Naaf, TES3/423
D. J. Rogers, TES3/423
R. S. Saunders, TES3/423
J. M. Taipale, TES3/423

RS:cam

Interoffice Correspondence
Civilian Radioactive Waste Management System
Management & Operating Contractor



TRW Environmental
Safety Systems Inc.

WBS: 1.2.6
QA: N/A

Subject:
Specification BABE0000-01717-
6300-03363
(SCP:N/A)

Date:
September 22, 1994
LV.ESSB.RMS.9/94-774

From:
R. M. Stambaugh
R M Stambaugh

To:
File

cc:
J. W. Keifer, TES3/423
J. L. Naaf, TES3/423
D. J. Rogers, TES3/423
R. S. Saunders, TES3/423
R. M. Stambaugh, TES3/423
LVLRC

Location/Phone:
TES3/530R
(702) 794-7001

As part of corrective action to CAR # YM-94-065, a review was performed to verify incorporation or resolution of reviewer comments. The following was identified during the review.

The specification revision 0A (found in EDC) was the interdisciplinary (ID) review copy. Normally the "check print" copy of a specification is labelled 0A and per conversation with the originator, the "check print" copy was indeed marked 0A. However, the "check print" copy could not be located to verify resolution of checker comments. Per the originator, the ID review copy was not marked up to 0B.

All ID reviewer comments were verified to have been incorporated/resolved in the 0C labelled "check print". Likewise, all 0C reviewer comments were resolved prior to issuance of revision 00.

RMS:cam

**Interoffice Correspondence
Civilian Radioactive Waste Management System
Management & Operating Contractor**



TRW Environmental
Safety Systems Inc.

WBS: 1.2.6
QA: QA

Subject:
Drawing Design Inputs
Number Error
(SCP:N/A)

Date:
September 15, 1994
LV.ESSB.RS.9/94-768

From:
Roberta Stambaugh
RmStambaugh

To:
Distribution

cc:
See Below
LVLRC

Location/Phone:
TES3/423
(702) 794-7001

As part of response to CAR # YM-94-065, corrective actions were to evaluate all back-up review documents (e.g., Check Copy, Interdiscipline Review Copy) to verify appropriate incorporation or resolution of reviewer comments.

Drawings marked as BABEAD000-01717-2100-40161-0A, 0B (13-APR-1994 07:34), 0B (13-APR-1994 10:48), 0D, and 00 were reviewed. On drawing revision 0B (CAD timed @ 7:34), the checker identified an error in the Design Input section. Specifically, TS North Ramp Rock Mass Classification BABEAB000-01717-0200-00004 should have been - 00005. The error was carried through to revision 00. This error will be corrected when revising the subject drawing to revision 01.

Distribution:

G. Heaney, TES3/423
J. W. Keifer, TES3/423
J. L. Naaf, TES3/423
D. J. Rogers, TES3/423
R. S. Saunders, TES3/423
R. A. Skorseth, TES3/423

RS:cam

Interoffice Correspondence
Civilian Radioactive Waste Management System
Management & Operating Contractor



TRW Environmental
Safety Systems Inc.

Subject:
Quality Assurance Program
Compliance

Date:
August 13, 1993
LV.MG.RMS.8/93-133

WBS: 1.2.1
QA: N/A

From: 
L. D. Foust

To:
All Nevada Site Personnel

cc:
Local Records Center

Location/Phone
TES3/LV-112
(702)794-1869

As a follow up to our recent discussions at our off-site, I want to reiterate the importance of 100% compliance with our Quality Assurance Program. For each and every one of us it must be our highest priority. It is simply too important to the ultimate success of our Program to be treated otherwise.

Neither schedule pressures or any other work place drivers should ever result in our being less than 100% compliant with all requirements of our Quality Assurance Program. We must of course manage our work assignments such that the highest quality work possible is completed within the scheduled constraints placed on us. However, if the choice is any level of non-compliance with our Quality Assurance Program versus any other work place objective, then we must always opt for 100% Quality Assurance Program compliance. Please be assured your Management will stand fully behind you in these decisions.

I appreciate your recent efforts in developing and initiating improvements in our Program, and I look forward to us having an NQA-1 quality assurance program that is recognized both for its rigor and full compliance with all requirements.

LDF:RMS;lcg