



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

WBS 1.2.9.3

SEP 14 1992

Richard L. Bullock
 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

VERIFICATION OF CORRECTIVE ACTIONS AND CLOSURE OF CORRECTIVE ACTION REQUESTS (CAR) YM-92-053 AND YM-92-054 RESULTING FROM YUCCA MOUNTAIN QUALITY ASSURANCE DIVISION (YMQAD) AUDIT YMP-92-18 OF RAYTHEON SERVICES NEVADA

The YMQAD staff has verified the corrective actions to CAR YM-92-053 and YM-92-054 and determined the results to be satisfactory. As a result, the CAR are considered closed.

If you have any questions, please contact Robert B. Constable at 794-7945 or Neil D. Cox at 794-7236.

Richard E. Spence, Director
 Yucca Mountain Quality Assurance Division

YMQAD:RBC-5576

Enclosures:

1. CAR YM-92-053
2. CAR YM-92-054

cc w/encls:

- K. R. Hooks, NRC, Washington, DC
- S. W. Zimmerman, NWPO, Carson City, NV
- M. J. Regenda, RSN, Las Vegas, NV
- J. H. Rusk, MACTEC, Las Vegas, NV
- N. J. Brogan, SAIC, Las Vegas, NV, 517/T-12
- W. B. Simecka, YMP, NV

cc w/o encls:

- J. W. Gilray, NRC, Las Vegas, NV
- N. D. Cox, SAIC, Las Vegas, NV, 517/T-12

9209250350 920914
 PDR WASTE
 WM-11 PDR

YMP-5

ADD: Ken Hooks

Att. Encl.
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102.7
 WM-11/11
 NH03

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

CAR NO. YM-92-053
DATE: 08-04-92
PAGE: 1 OF 1
QA

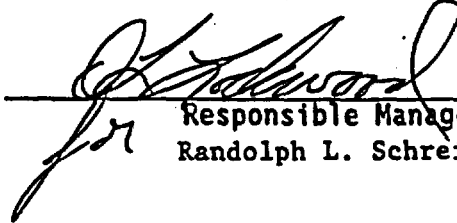
CORRECTIVE ACTION REQUEST (Continuation Page)

A. Remedial
N/A

B. Extent of Deficiency
The procedure is under revision that will provide for the status reports and when they shall be issued. There has been no change in the status reports since before Nov. 15, 1991 therefore the letter to all the recipients was issued.

C. Preclude Recurrence
This was an isolated case where the requirement was recognized and a conscience effort made to adhere to it. It was decided that since there were no changes to the status report and none were anticipated a letter trying to suspend these reports until there was a change seemed to be a reasonable solution. The status reports will begin the 1st week in August and continue until such time as the procedure is revised.

Response Approved:


Responsible Manager
Randolph L. Schreiner

Date: 8/4/92

VERIFICATION:

RSN Memorandum IC-2525 was placed in the record stating that no change had occurred in any month from September, 1991 through July, 1992. Memorandum was dated August 23, 1992. THIS WAS SATISFACTORY

REMEDIAL ACTION

NO. 604
8/8/92
KLS
7/8/92

8/4/92

RSN-YMP-1367 REV. 08/91

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

8 CAR NO.: YM-92-054
DATE: 6/26/92
SHEET: 1 OF 1
QA

CORRECTIVE ACTION REQUEST

1 Controlling Document RSN Procedure EP-19-04, Rev. 0		2 Related Report No. YMP-92-18	
3 Responsible Organization RSN		4 Discussed With Jo Ann Leveque	

5 Requirement:
Para. 6.14.1 states in part that the TPO shall approve by signature the configuration items Software Producer Form (SPF), Test Document Review Report (TDRR), the Software Design Description Review Report (SDDRR), the Software Verification and Validation Plan (SVVP) and the Software Verification and Validation Plan Review Report (SVVPRR).

6 Adverse Condition:
Contrary to the requirement, there are no lines on the forms for the TPO's signature and there is no evidence that he approved those in the Software Configuration Management Log (SCML) as of 6/23/92.

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 SWO If Yes, Circle One: A B C D	11 Response Due Date: 20 Days from issuance
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12 Required Actions: Remedial Extent of Deficiency Preclude Recurrence Root Cause Determination

13 Recommended Actions:
Obtain TPO signature approval on all reports currently in the SCML. Modify forms to have a place for TPO approval or delete the requirement for TPO signature.

7 Initiator N Cox <i>Neil D. Cox</i> Date <i>7/1/92</i>	14 Issuance Approved by QADD <i>R.C. Spence</i> Date <i>7/6/92</i>
15 Response Accepted QAR Date	16 Response Accepted QADD Date
17 Amended Response Accepted QAR <i>Neil D. Cox</i> Date <i>9/1/92</i>	18 Amended Response Accepted QADD <i>R.C. Spence</i> Date <i>9/2/92</i>
19 Corrective Actions Verified QAR <i>Neil D. Cox</i> Date <i>9/8/92</i>	20 Closure Approved by: QADD <i>R.C. Spence</i> Date <i>9/11/92</i>

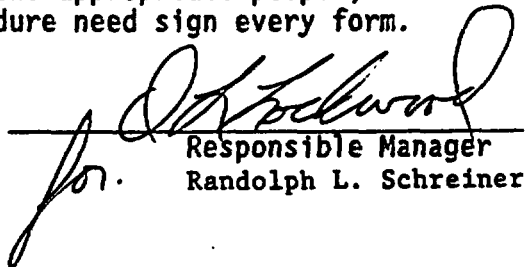
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CAR NO. YM-92-054
DATE: 08-04-92
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CORRECTIVE ACTION REQUEST (Continuation Page)

- A. Remedial
6.14.1 states "Submits a package which includes SPF, UDRR, TDRR, SDDRR, SVVP, and SVVPRP to CCTO, DESC, QAR, and TPO for their approval. The approval is accomplished by obtaining the required signatures on the respective cover sheets." The intent of this section is that only the signatures on the current form are required for the approval of that form. Not all of these forms require all the above mentioned signatures. The statement says "the *required* signatures on the *respective* cover sheets."
- B. Extent of Deficiency
There was no evaluation performed for the for the extent of this deficiency since it is not really a deficiency. The forms were approved by the appropriate people and only by the person required to approve that form.
- C. Preclude Recurrence
This deficiency is a matter of misunderstanding. The forms were approved by the appropriate people, not all the people identified in the procedure need sign every form.

Response Approved:


Responsible Manager
Randolph L. Schreiner

Date:

8/4/92

AMENDED RESPONSE TO CORRECTIVE ACTION REQUEST YM-92-054, AUDIT YMP-92-18

- A. REMEDIAL - RSN shall perform an evaluation of the existing packages and have the TPO and other applicable personnel sign the form. The completion of this remedial action shall be on or before September 30, 1992.
- B. EXTENT OF DEFICIENCY - RSN shall perform an evaluation and include the signatures of the applicable personnel on the appropriate form. This evaluation shall be completed by September 18, 1992.
- C. PRECLUDE RECURRENCE - RSN shall evaluate the procedures and revise them accordingly by September 30, 1992.

Amended Response Approved: *Randolph L. Schmitt* Date: 8/27/92
Responsible Manager

VERIFICATION:

The TPO and others had signed the forms SPF, TDRR, SDRR, SVR P and SVV PRR for the software configuration items

SCML - 01 - 00
SCML - 02 - 00
SCML - 03 - 00
SCML - 13 - 00
SCML - 18 - 00.

ALL OTHER SOFTWARE CONFIGURATION ITEMS WERE IN PROGRESS AND THESE FORMS WERE NOT YET APPROPRIATE.

THIS WAS SATISFACTORY REMEDIAL ACTION.

Neil D. Cox
9/8/92

8/27/92
RSN-YMP-1387

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

6 CAR NO.: YM-92-053
DATE: 6/26/92
SHEET: 1 OF 1
QA

CORRECTIVE ACTION REQUEST

1 Controlling Document RSN FP-19-01, Rev. 0		2 Related Report No. Audit YMP-92-18	
3 Responsible Organization Raytheon Services Nevada		4 Discussed With Russ Hilsinger	
5 Requirement: Paragraph 6.15: "A status report of certified hardware and software shall be prepared by the Configuration Management on a monthly basis and provided to users."			
6 Adverse Condition: Contrary to the above requirement, monthly status reports were suspended by management directive from Nov. 15, 1991, to the week of June 26, 1992. The manager responsible was new to the job and did not recognize a conflict with QA Requirements.			
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 SWO If Yes, Circle One: A B C D	
		11 Response Due Date: 20 Days from issuance.	
12 Required Actions: <input type="checkbox"/> Remedial <input checked="" type="checkbox"/> Extent of Deficiency <input checked="" type="checkbox"/> Preclude Recurrence <input type="checkbox"/> Root Cause Determination			
13 Recommended Actions:			
7 Initiator N. Cox <i>Neil A. Cox</i> Date <u>7/1/92</u>		14 Issuance Approved by: QADD <i>R.C. Spence</i> Date <u>7/6/92</u>	
15 Response Accepted QAR <i>Neil A. Cox</i> Date <u>8/7/92</u>		16 Response Accepted QADD <i>R.C. Spence</i> Date <u>8 7 92</u>	
17 Amended Response Accepted QAR Date		18 Amended Response Accepted QADD Date	
19 Corrective Actions Verified QAR <i>Neil A. Cox</i> Date <u>9/8/92</u>		20 Closure Approved by: QADD <i>R.C. Spence</i> Date <u>9/11/92</u>	