

Department of Energy

Washington, DC 20585

JAN 1 3 1997

 L. D. 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 DEFICIENCY REPORT (DR) YM-96-D-064 RESULTING FROM OFFICE OF QUALITY ASSURANCE (OQA) AUDIT YM-ARC-96-16 OF LOS ALAMOS NATIONAL LABORATORY

The OQA staff has verified the corrective action to DR YM-96-D-064 and determined the results to be satisfactory. As a result, the DR is considered closed.

If you have any questions, please contact either Mario R. Diaz at (702) 794-1489 or Richard L. Maudlin at (702) 794-1302.

Donald G. Horton, Director

Office of Quality Assurance

OQA:MRD-0685

Enclosure: DR YM-96-D-064

cc w/encl: T. A. Wood, DOE/HQ (RW-55) FORS J. O. Thoma, NRC, Washington, DC S. W. Zimmerman, NWPO, Carson City, NV B. R. Justice, M&O, Las Vegas, NV R. A. Morgan, M&O, Las Vegas, NV J. A. Canepa, M&O/LANL, Los Alamos, NM M. J. Clevenger, M&O/LANL, Los Alamos, NM Records Processing Center = "13"

cc w/o encl: W. L. Belke, NRC, Las Vegas, NV R. L. Maudlin, OQA/QATSS, Las Vegas, NV D. G. Sult, OQA/QATSS, Las Vegas, NV R. W. Clark, DOE/OQA, Las Vegas, NV

1 102.7

210039

970113

PDR

210373

WASTE

WM-11

Recip: NMSS/ HLUR

Printed with soy ink on recycled pape

OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT U.S. DEPARTMENT OF ENERGY WASHINGTON, D.C. PERFORMANCE/DEPARTMENT OF ENERGY WASHINGTON, D.C. PERFORMANCE/DEPICIENCY REPORT Teamony Document ACAD, Revision 5 / LANL-YMP-OP-03.20, Revision 4 PERFORMANCE/DEFICIENCY REPORT TECHNOLOGY (LANL) B. J. Fabryka-Martin / A. Wolfsberg TECHNOLOGY (LANL) TECHNOLOGY (LANL) B. J. Fabryka-Martin / A. Wolfsberg TECHNOLOGY (LANL) TECHNOLOGY	▲ ·		CRIGISTS ARED STAN
1 Controlling Document 2 Rebited Report No. QARD, Revision 5 / LANL-YMP-QP-03.20, Revision 4 4 Occassid Writ: Los Alarmos National Laboratory (LANL) 4 Occassid Writ: B. J. Fabryka-Martin / A. Wolfsberg 5 Requerestion: CARD, Section 12 2(A), states: "Software verification and software validation shall be performed prior to release. In those cases where this requirement cannot be met prior to the release of the software, the portions of the software that have not been verified and validated shall be identified and controlled and written justification of the reason documented." LANL-YMP-QP-03.20, Subparagraph 6.2.1, states in part. "It is the responsibility of the SCM to ensure that software verification and validations of developed or modified software is performed prior to release." 8 Description of Condition. Contrary to the above: A LANL procedure YM-QP-03.20, Revision 4, does not require: (1) that written justification be documented when software that has not been verified and validated is released for use and (2) the mechanism for controlling its use prior to validation and verification. B. Software FEHM was used in the Chlorine-36 (quality affecting) activity in the Milestone Report: "Systematic Sampling for Chorine-36 in Exploratory Studies Facility," however there is no documented evidence to establish (RADIOACTIVE WA	ASTE MANAGEMENT JENT OF ENERGY	NO. <u>YMGAD-96-D064</u>
QARD, Revision 5 / LANL-YMP-QP-03.20, Revision 4 YM-ARC-86-16 3 Responsible Organization: 4 Obcussed With: B. J. Fabryka-Martin / A. Wolfsberg 3 Regressment/Measurement Criteric: QARD, Section 12.2(A), states: "Software verification and software validation shall be performed prior to release. In those cases where this requirement cance to the release of the software, the portions of the software that hose code where this requirement cance to the release of the software, the portions of the software that hose code where this requirement cance to the release of the software that software verification and validated shall be identified and controlled and written justification of the reason documented." LANL-YMP-QP-03.20, Subparagraph 6.2.1, states in part: "It is the responsibility of the SCM to ensure that software verification and validations of developed or modified software is performed prior to release." Subscription at Condition. Contrary to the above: A. LANL procedure YM-QP-03.20, Revision 4, does not require: (1) that written justification be documented when software that has not been verified and validated is released for use and (2) the mechanism for controlling its use prior to validation and verification. B. Software FEHM was used in the Chlorine-36 (quality affecting) activity in the Milestone Report: "Systematic Sampling for Chlorine-36 in Exploratory Studies Facility." however there is no documented evidence to establish (1) documented justification for use and (2) released for use under the configuration management program. NOTE: Software FEHM is not verified and validated and has not been placed under configuration management. Vestor	PERFORMANCE/I	DEFICIENCY REPORT	
Prespondible Originization: 4 Discussed With: Dark Antons National Laboratory (LANL) B. J. Fabryka-Martin / A. Wolfsberg S RequerementMeasument Credit: CARD, Section 1.2.2(A), states: "Software verification and software validation shall be performed prior to release. In those cases where this requirement cannot be met prior to the release of the software, the portions of the software that have not been verified and validated shall be identified and controlled and written justification of the reason documented." LANL-YMP-QP-03.20, Subparagraph 6.2.1, states in part: "It is the responsibility of the SCM to ensure that software verification and validations of developed or modified software is performed prior to release." S Description of Condition. Contrary to the above: A. LANL procedure YM-QP-03.20, Revision 4, does not require: (1) that written justification be documented when software that has not been verified and validated is released for use and (2) the mechanism for controlling its use prior to validation and verification. B. Software FEHM was used in the Chorine-36 (quality affecting) activity in the Milestone Report: "Systematic Sampling for Chorine-36 in Exploratory Studies Facility," however there is no documented evidence to establish for and validated and has not been placed under configuration management. Privator Date 7/4/96 OAR Review QAR Market L. Maudilin Date 7/4/96 Date 7/4/96 Visitator Date 7/4/96 Date 7/4/96 Visitator		· · · · · · · · · · · · · · · · · · ·	
Los Alemos National Laboratory (LANL) B. J. Fabryka-Martin / A. Wolfsberg S Requestment/Measurement Create: QARD, Section 1.2.2(A), states: "Software verification and software velidation shall be performed prior to release. In those cases where this requirement cannot be met prior to the release of the software, the portions of the software that have not been verified and validated shall be identified and controlled and written justification of the reason documented." LANL-YMP-QP-03.20, Subparagraph 6.2.1, states in part. "It is the responsibility of the SCM to ensure that software verification and validations of developed or modified software is performed prior to release." EDescription of Condition. Contrary to the above: A. LANL procedure YM-QP-03.20, Revision 4, does not require: (1) that written justification be documented when software that has not been verified and validated is released for use and (2) the mechanism for controlling its use prior to validation and verification. B. Software FEHM was used in the Chlorine-36 (quality affecting) activity in the Milestone Report: "Systematic Sampling for Chlorine-36 in Exploratory Studies Facility," however there is no documented evidence to establish (documented justification for use and (2) released for use under the configuration management. NOTE: Software FEHM is not verified and validated and has not been placed under configuration management. Viniator Date 7/L/16 SoA Review QAR Market Date 7/L/16 Date 7/L/16 Viniator Date 7/L/16 SoA Review QA			YM-ARC-96-16
QARD, Section I.2.2(A), states: "Software verification and software validation shall be performed prior to release. In those cases where this requirement cannot be met prior to the release of the software, the portions of the software that have not been verified and validated shall be identified and controlled and written justification of the reason documented." LANL-YMP-QP-03.20, Subparagraph 6.2.1, states in part. "It is the responsibility of the SCM to ensure that software verification and validations of developed or modified software is performed prior to release." States of Condition: Contrary to the above: A. LANL procedure YM-QP-03.20, Revision 4, does not require: (1) that written justification be documented when software that has not been verified and validated is released for use and (2) the mechanism for controlling its use prior to validation and verification. B. Software FEHM was used in the Chlorine-36 (quality affecting) activity in the Milestone Report: "Systematic Sampling for Chlorine-36 in Exploratory Studies Facility," however there is no documented evidence to establish (documented justification for use and (2) released for use under the configuration management. NOTE: Software FEHM is not verified and validated and has not been placed under configuration management. Visition Date 7/4/96 Visition Date 7/			olfsberg
It is requirement cannot be met prior to the release of the software, the portions of the software that have not been verified and validated shall be identified and controlled and written justification of the reason documented." LANL-YMP-OP-03.20, Subparagraph 6.2.1, states in part. "It is the responsibility of the SCM to ensure that software verification and validations of developed or modified software is performed prior to release." E Description of Condition: Contrary to the above: A. LANL procedure YM-OP-03.20, Revision 4, does not require: (1) that written justification be documented when software that has not been verified and validated is released for use and (2) the mechanism for controlling its use prior to validation and verification. B. Software FEHM was used in the Chlorine-36 (quality affecting) activity in the Milestone Report: "Systematic Sampling for Chlorine-36 in Exploratory Studies Facility," however there is no documented evidence to establish (documented justification for use and (2) released for use under the configuration management. Videator Date 7/2/96 Statewer Configuration management. Videator Date 7/2/96	5 Requirement/Measurement Criteria:		
Contrary to the above: A LANL procedure YM-QP-03.20, Revision 4, does not require: (1) that written justification be documented when software that has not been verified and validated is released for use and (2) the mechanism for controlling its use prior to validation and verification. B. Software FEHM was used in the Chlorine-36 (quality affecting) activity in the Milestone Report: "Systematic Sampling for Chlorine-36 in Exploratory Studies Facility," however there is no documented evidence to establish (documented justification for use and (2) released for use under the configuration management program. NOTE: Software FEHM is not verified and validated and has not been placed under configuration management. 7 Industor Richard L. Maudlin Date 7///16 0 A Review QAR CAR CAR Date 7//16 0 A Review QAR CAR CAR CAR CAR CAR CAR CAR CAR CAR C	documented." LANL-YMP-QP-03.20, Subparagraph 6.2.1, states in J	part: "It is the responsibility of t	he SCM to ensure that software
Contrary to the above: A LANL procedure YM-QP-03.20, Revision 4, does not require: (1) that written justification be documented when software that has not been verified and validated is released for use and (2) the mechanism for controlling its use prior to validation and verification. B. Software FEHM was used in the Chlorine-36 (quality affecting) activity in the Milestone Report: "Systematic Sampling for Chlorine-36 in Exploratory Studies Facility," however there is no documented evidence to establish (documented justification for use and (2) released for use under the configuration management program. NOTE: Software FEHM is not verified and validated and has not been placed under configuration management. 7 Industor Richard L. Maudlin Date 7///16 0 A Review QAR CAR CAR Date 7//16 0 A Review QAR CAR CAR CAR CAR CAR CAR CAR CAR CAR C			
A. LANL procedure YM-QP-03.20, Revision 4, does not require: (1) that written justification be documented when software that has not been verified and validated is released for use and (2) the mechanism for controlling its use prior to validation and verification. B. Software FEHM was used in the Chlorine-36 (quality affecting) activity in the Milestone Report: "Systematic Sampling for Chlorine-36 in Exploratory Studies Facility," however there is no documented evidence to establish ("documented justification for use and (2) released for use under the configuration management program. NOTE: Software FEHM is not verified and validated and has not been placed under configuration management. 7 Initiator Oak Review 7 Initiator Date		· ·	
Richard L. Maudlin Date 1/2/96 QAR Maudlin Date 1/2/96 10 Response Due Date: 11 Octastance Approxit 11 Octastance Approxit Date 1/2/96 20 Working Days From Issuance 11 Octastance Approxit Date 7/1/96 12 Remedial Actions: a. An investigation was performed to see if the subject wording was missing from QP-03.20, Revision 4. Date reference on the second of the subject wording was missing from to determine when FEHM was entered into configuration management. 13 Remedial Actions Response By: 14 Remedial Action Due Date Date 13 Remedial Action Response Acceptance Date 16 PR Verification Aclosure	 prior to validation and verification. B. Software FEHM was used in the Chlorine-36 (qua Sampling for Chlorine-36 in Exploratory Studies F documented justification for use and (2) released 	ality affecting) activity in the Mil "acility;" however there is no do for use under the configuration	estone Report: "Systematic ocumented evidence to establish (1 o management program. NOTE:
Richard L. Maudlin Date 1/2/96 QAR Mench Date 1/2/96 10 Response Due Date: 11 Of Issuance 11 Of Issuance Report Date 1/2/96 20 Working Days From Issuance 11 Of Issuance Report Date 7/1/96 12 Remedial Actions: a. An investigation was performed to see if the subject wording was missing from QP-03.20, Revision 4. Date reference in quality affecting work, and to determine when FEHM was entered into configuration management. 13 Remedial Actions Response By: 14 Remedial Action Due Date 14 Remedial Action Response Acceptance Date 15 Remedial Action Response Acceptance 16 PR Verification Aclosure			
20 Working Days From Issuance Date -1/.1/96 12 Remedial Actions: a. An investigation was performed to see if the subject wording was missing from QP-03.20, Revision 4. b. A check was performed to determine if FEHM was used in quality affecting work, and to determine when FEHM was entered into configuration management. 13 Remedial Actions Response By: 14 Remedial Action Due Date Date Date 15 Remedial Action Response Acceptance 16 PR Verification /Closure	Richard L. Maudlin Date 7/2/96	QAR mall	Date 7/-/96
 An investigation was performed to see if the subject wording was missing from QP-03.20, Revision 4. A check was performed to determine if FEHM was used in quality affecting work, and to determine when FEHM was entered into configuration management. 13 Remedial Actions Response By: Date Date Date 	·	Konger Ilala	Date 7/11/96
Date Date 15 Remedial Action Response Acceptance 16 PR Verification /Closure 0 A P Date	 a. An investigation was performed to a QP-03.20, Revision 4. b. A check was performed to determine 	if FEHM was used in qu	ality affecting work, and
15 Remedial Action Response Acceptance 16 PR Verification /Closure	13 Remedial Actions Response By:	14 Remedial Action Due Date	
DAP	Date		Date
	15 Remedial Action Response Acceptance QAR Date		Date

.

Enclosure

.

•		RADIOACTIVE WA	DF CIVILIAN ASTE MANAGEMENT MENT OF ENERGY NGTON, D.C.	- [95 #\$## DR NO. <u>YM@AB-96-D08</u> PAGE _2_ OF	54 D
		WASHIN	igion, d.c.		<u></u>	
		DEFICIEN	CY REPORT			
	e impact on qua		e which has not been ality affecting work wt			
B. Identify what	actions will or ha	ave been taken to b	ring the FEHM softwar	e under configu	uration management	•
C. Revise LANL	-YMP-QP-03.20	to be consistent wit	h the requirements of	the QARD.	• •	
validated the resp verificat release. written	i is released onsibility of tion and val: In those cas justification	d for use. Subs f the Software idation of deve ses where this n for the reaso	l when software t section 6.2.1 sec Control Manager cloped or modifie is not done pric on is normally do not been verifie	ond paragra (SCM) to en d software r to the re cumented in	ph, states, "It sure that softw is performed pr lease of softwa a memorandum,	ie are ion re, whe
19 Root Cause Determina As previous required.		n block 18, it	has been determi	ned that an	analysis was n	ot
As previous		n block 18, it	has been determi	ned that an	analysis was n	ot
As previous required.	sly stated in	n block 18, it	has been determi	ned that an	analysis was n	ot
As previous required.	sly stated in	n block 18, it	has been determi	ned that an	analysis was n	ot
As previous required.	sly stated in	n block 18, it	has been determi	ned that an	analysis was n	ot
As previous required.	sly stated in	n block 18, it	has been determi	ned that an	analysis was n	ot
As previous required. 20 Action to Prectude Rea No action : 21 Response By:	aly stated in annence: is required.		has been determi	Pletion Due Date	analysis was n	ot
As previous required. 20 Action to Prectude Rea No action : 21 Response By:	aly stated in annence: is required.	n block 18, it Date 8/9/94 Date 9/25/96	22 Corrective Action Com	Pletion Due Date		
As previous required. 20 Action to Preclude Rea No action : 21 Response By: Michael & 23 Response Accepted QAR 25 Amended Response A QAR	Ely stated in currence: is required. E. Cleunger Coepied J/A	Date Slala¢	22 Corrective Action Corr 30 DEC 24 Response Accepted	pletion Due Date 36 2 <i>HMMC</i>	9//sc	
As previous required. 20 Action to Preclude Rec No action : 21 Response By: Michael & 23 Response Accepted QAR	Ely stated in currence: is required. E. Cleunger Coepied J/A	Date 8/9/94 Date 9/25/96	22 Corrective Action Corr 30 DEC 24 Response Accepted AOQAM 26 Amended Response A	pletion Due Date 36 2 <i>HMMC</i>	9/2/3e Date /13/3	./.

8/9/96	EES-13-08-96-1238
0/9/96	223-13-08-76-1238

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

Deficien	ance Report cy Report
NO. YM-	528-19/96 96-2-084
PAGE 3	of 3
	QA: L

PR/DR CONTINUATION PAGE

#18 continued

and controlled" (see attached copy of LNAL-YMP-QP-03.20, Revision 4, subsection 6.2.1).

The report cited was submitted as a letter report (see memo #EES-13-04-95-1014 attached), considered as <u>non-quality effecting</u>, and did not require a policy review by the Project and therefore did not undergo the review process described in LANL-YMP-QP-03.23, Revision 3. Had it been submitted as a quality affecting report, it would have been subjected to the review process, and a statement would have been documented in accordance with LANL YMP quality assurance requirements. There is also a statement in the abstract of the report that indicates that the formal technical review required by the LAN1 YMP Quality Assurance program had not been completed. FEHM (originally FEHMN) was entered into Configuration Management on 3/11/91. It was not verified and validated but it undergoing validation and verification at this time so that it can be used on quality effecting work.

. Application Field

96-0064

Obtain the application field from the name specified in the application's file list (AFL).

b. First Release

If this is the first release of the application, set the version number (vv) to 01, the revision number (rr) each to 00, and terminate the process.

c. Minor Release

If the release incorporates only minor functional changes, construct the remainder of the release label as follows:

- Retain the version number found in the release label of the most recent prior release of the product and assign this value to the version number field.
- Increment the revision number found in the release label of the most recent prior release of the product and assign this value to the revision number field.
- d. Major Release

If the release incorporates major functional changes (new or substantially revised interfaces, models, or logic for example), construct the remainder of the release label as follows:

- Increment the version number found in the release label of the most recent prior release of the product and assign this value to the version number field.
- Reset the revision number to 00 and assign this value to the revision number field.
- e. Update the SCM controlled datasets

Record the release label as an attribute of the SCM controlled datasets containing the corresponding release of the application.

6.2 Configuration Control

6.2.1 Releases

This section describes the procedures for software dissemination control and performing a release of information from the SCM controlled datasets. These datasets contain the archived baselines for Los Alamos SCM controlled certified and development software.

LANL-YMP-QP-03.20, R4 Page 6 of 17

It is the responsibility of the SCM to ensure that software verification and validation of developed or modified software is performed prior to release. In those cases where this is not done prior to the release of software, written justification for the reason is normally documented in a memo, where the portions of software that have not been verified and validated will be identified and controlled.

6.2.1.2___SCM

SCM processes a request for release of SCM controlled datasets information as follows:

a. Verification

Upon receipt of a ST:

m-96-0064

- Verify that the form is signed by the originator.
- Verify that the software or document is available for release.
- Determine whether the information provided on the form is complete and consistent with the type of release being requested.
- Determine whether SCM has the authority to issue the release or whether CCB approval must be obtained.
- The CCB approves releases intended for distribution outside the Los Alamos YMP.

If verification fails, check the Not Accepted box in the Disposition field of the ST, and proceed to Step (d) of this subsection.

b. Disposition

Perform one of the following actions based upon the outcome of Step (a) of this subsection.

- If the information is complete and appropriate and the release on be performed as requested, check the Accepted box and proceed to Step (d) of this subsection.
- If the release requires minor modifications to the request, contact the originator and update the ST form. Then if the release can be performed as requested, check the Accepted box, and proceed to Step (c) of this subsection.

If CCB action is required:

Check the CCB Action box

ALLMENI 4m-96-0064

THIS IS A YMP

MILESTONE

NO. 8788 AD

LOS Alames

Earth and Environmental Sciences Division EES-13-Nuclear Waste Management R&D Mail Stop J\$31, Los Alamos, NM \$7545 Phone (505) 667-9765, Fax (505) 667-1934

April 3, 1996

EES-13-04-95-1014

C. Thomas Statton Manager of Scientific Program Operations M&O/WCFS, Mail Stop 423 101 Convention Center Drive Las Vegas, NV 89109

Transmittal of Completed Los Alamos Milestone 3783 AD, "Summary Report of Cl³⁶ Studies: Systematic Sampling for Chlorine-36 in the Exploratory Studies Facility" (WBS 1.2.3.3.1.2.2)

Dear Mr. Statton:

In compliance with YAP-5.1Q, I am writing to inform you that the following Los Alamos milestone has been completed.

Milestone 3783 AD, "Summary Report of Cl³⁶ Studies: Systematic Sampling for Chlorine-36 in the Exploratory Studies Facility" (WBS 1.2.3.3.1.2.2)

This milestone was designated a letter report in the Los Alamos Project Control system. A letter report as defined by the system does not require a policy review by the Project. This milestone report may become part of a large document of publishable quality.

A copy of this milestone is attached to this letter.

In compliance with YAP-5.1Q, I have attached a Document Action Request form. Also enclosed is a Subcontract Change for FY96 showing the addition of this level 4 milestone to Job Number 2A3831. As described in Julie Canepa's attached letter the due date for this deliverable is March 30, 1996.

Sincerely. uli A Car

Julie A. Canepa

JAC/SHK/Ib

Att: a/s Cy w/enc. G.S. Bodvarsson, LBL, Berkeley, CA M. Brady, SNL, Las Vegas, NV S. Hanauer, DOE/HQ, Washington, DC R. Craig, USGS, Las Vegas, NV D. Gillies USGS, Denver, CO B. Mukhopadhyay, M&O/WCFS, Las Vegas, NV S. Nelson, M&O/WCFS, Las Vegas, NV M. Peters, M&O/WCFS, Las Vegas, NV R. L. Patterson, DOE/YMSCO, MS 523 D. Hoxle, USGS, LV, NV R. Henning M&O/WCFS, LV G.Y. Bussod, EBS-13, MS J521

J.A. Canepa, EES-13, MS J521 S.H. Klein, EES-13, MS J521 A.L. Thompson, EES-13/LV, MS J900/527 J.T. Fabryka-Martin, CST-7, MS J514

Cy w/o enc. P.R. Burke, M&O/TRW, Las Vegas, NV W.L. Clarke, LLNL, Livermore, CA J. Haynes, EES-13, MS J521 M.E. Herrera, LATA, MS M321. V.F. Iorii, YMSCO, Las Vegas, NV S.B. Jones, YMSCO, Las Vegas, NV EES-13 File, MS J521

An Equal Opportunity Employer/Operated by the University of California

From: CCB Chairman Gilles Bussod

To: SCM Brad Gundlach

Rav 1.0 0 1/1/17

Subject: FEHM/Implementation Baseline Closure Configuration Control Board (CCB) Meeting Minutes

The CCB met on 17 December 1996 to decide on the approval of the FEHM , $R_{T'}$ /. c Implementation Baseline Closure Review.

All Review comments were addressed to the satisfaction of the reviewers.

After a majority vote of the CCB membership, the FEHM Implementation Baseline Closure Review is approved.

The SCM is authorized to process the baseline for distribution and records forwarding.

12 18 94 FRIEND -

C. GREENE.

Bı Chairman

* Liv

12/18/96

To: Hank Greene

From: John Friend

Subject: Corrective Action Completion To Deficiency Report YM-96-D-064

Hank;

Attached is a memo that approves the FEHM code for use. All validation and verification have been completed and the code may now be distributed. Please forward this to Dick Maudlin for his review. Please call if you should have any questions.

Thanks, John St.

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

8	Performance	Performance Report Deficiency Report
	\mathbf{V}	Deficiency Report

NO. <u>YM-96-D-064</u> PAGE _____ OF ____ QA: L

PR/DR CONTINUATION PAGE

EVALUATION AND CLOSURE OF DR YM-96-D-064

Based on your response dated August 9, 1996 and a review of the Configuration Control Board meeting minutes of 17 December 1996, the conditions noted in DR YM-96-D-064 have been resolved. An evaluation of software configuration control, as it relates to the use of FEHM and other software, will be evaluated in future audits of Los Alamos National Laboratory. No further action is required.

As a result, no further action is required in resolution to this DR. This DR is considered closed.

1/1/87 R.L. Maudlin, Q Date