



## Department of Energy

Yucca Mountain Project Office  
P. O. Box 98608  
Las Vegas, NV 89193-8608

WBS 1.2.9.3  
QA

JUN 29 1990

Leslie J. Jardine  
Technical Project Officer  
for Yucca Mountain Project  
Lawrence Livermore National  
Laboratory  
P.O. Box 5514, L-217  
Livermore, CA 94551

CLOSURE OF STANDARD DEFICIENCY REPORT (SDR) 038, REVISION 2, RESULTING FROM  
YUCCA MOUNTAIN PROJECT OFFICE QUALITY ASSURANCE AUDIT S-87-1 OF LAWRENCE  
LIVERMORE NATIONAL LABORATORY

SDR 038, Revision 2, has been closed based on satisfactory verification of  
completed corrective actions. A copy of the SDR is enclosed for your files.

If you have any questions, please contact either Catherine E. Hampton at  
(702) 794-7973 or FTS 544-7973, or Gerard Heaney at (702) 794-7749 or  
FTS 544-7749 of the Yucca Mountain Project QA staff.

Donald G. Horton, Director  
Quality Assurance  
Yucca Mountain Project Office

YMP:CEH-3918

Enclosure:  
SDR 038

cc w/encl:  
Ralph Stein, HQ (RW-30) FORS  
D. E. Shelor, HQ (RW-3) FORS  
John Lee, SAN  
Gerard Heaney, SAIC, Las Vegas, NV, 517/T-06  
S. W. Zimmerman, NWPO, Carson City, NV  
K. R. Hooks, NRC, Washington, DC ←  
D. W. Short, LLNL, Livermore, CA

cc w/o encl:  
J. W. Gilray, NRC, Las Vegas, NV  
N. J. Brogan, SAIC, Las Vegas, NV, 517/T-08  
J. E. Clark, SAIC, Las Vegas, NV, 517/T-12  
S. R. Dippner, SAIC, Las Vegas, NV, 517/T-08

YMP-5

9007090364 900629  
PDR WASTE  
WM-11

FDC

ADD: K Hooks

102.7  
WM-11  
NH03

## WMPO STANDARD DEFICIENCY REPORT

N-QA-038  
3/87

Completed by Originating QA Organization in Block 5 Aprvl. 5 Completed by Organization in Block 5

1 Date Nov 21, 1988

2 Severity Level ☒ 1 ☐ 2 ☐ 3

Page 1 of 2

3 Discovered During  
Audit S-87-13a Identified By  
F. Ramirez3b Branch Chief  
Concurrence Date4 SDR No.  
038

Rev. 2

5 Organization  
LLNL6 Person(s) Contacted  
D. Peifer7 Response Due Date is  
20 Working Days from  
Date of Transmittal8 Requirement (Audit Checklist Reference, if Applicable)  
See Revision 1, of SDR 038 (Attached)

## 9 Deficiency

Deficiencies with the calibration of Field Test pH meters was identified on 6/18/87 in Rev. 0, of SDR 038. As of Oct 28, 1988, this SDR cannot be closed or verified since a formal calibration program has not been issued or

10 Recommended Action(s): ☐ Remedial ☐ Investigative ☐ Corrective  
See corrective actions identified on SDR 090 Rev. 1.

11 QAE/Lead Auditor Date

12 Branch Manager

Date

13 Project Quality Mgr. Date

14 Remedial/Investigative Action(s)

15 Effective Date

SEE ATTACHED

16 Cause of the Condition &amp; Corrective Action to Prevent Recurrence

17 Effective Date

SEE ATTACHED

18 Signature/Date

19 Response ☒ Accept ☐ Amended  
☐ Reject ☐ Response

QAE/Lead Auditor/Date

Branch Manager/Date

20 Amended  
Response☒ Accept ☐ Amended  
☐ Reject ☐ Response

QAE/Lead Auditor/Date

Branch Manager/Date

21 Verifi-  
cation☒ Satisfactory  
☐ Unsatisfactory

QAE/Lead Auditor/Date

Branch Manager/Date

22 Remarks Requested Amended response via YMP-SR-89-099.

S.P. Nolan 6-1-89

VERIFICATION OR CORRECTIVE ACTION WAS UNSATISFACTORY FOR SURVEILLANCE  
90-012. NEW CORRECTIVE ACTION IMPLEMENTATION DATA REQUESTED. HK/pe/ko  
See Attachment A for verification details 89-6-13-9023  
QA CLOSURE

QAE/Lead Auditor/Date

Branch Manager/Date

PCM/Date

ENCLOSURE

"BEST AVAILABLE COPY"



WMPO STANDARD DEFICIENCY REPORT  
CONTINUATION SHEET

N-QA-038  
10/86

SDR No. 038

Rev. 2

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9 Deficiency ( continued )

implemented (Reference SDR 090, Rev. 1 on lack of a Calibration program).  
Without a formal implementing procedure, the status and method of pH meter  
calibration cannot be determined.