



Department of Energy

Yucca Mountain Project Office

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WBS 1.2.9.3

QA

OCT 22 1990

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CLOSURE OF STANDARD DEFICIENCY REPORT (SDR) 512, REVISION 0, RESULTING FROM
YUCCA MOUNTAIN PROJECT OFFICE QUALITY ASSURANCE (QA) AUDIT 90-01 OF LOS ALAMOS
NATIONAL LABORATORY

SDR 512, Revision 0, 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 Catherine E. Hampton at (702) 794-7973
or FTS 544-7973, or Stephen R. Dana at (702) 794-7176 or FTS 544-7176 of the
Yucca Mountain Project QA staff.

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

QA:CEH-441

Enclosure:
SDR 512, Revision 0

cc w/encl:
J. L. Day, LATA, Los Alamos, NM
H. P. Nunes, LANL, Los Alamos, NM
S. W. Zimmerman, NWPO, Carson City, NV
K. R. Hooks, NRC, Washington, DC

cc w/o encl:
H. E. Valencia, LAAO
J. H. Hines, OQD, AL
A. R. Chernoff, MSD, AL
J. W. Gilray, NRC, Las Vegas, NV
R. A. Morley, LANL, Los Alamos, NM
N. J. Brogan, SAIC, Las Vegas, NV, 517/T-08

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YMPO STANDARD DEFICIENCY REPORT

N-QA-038
4/89

Completed by Originating QA Organization	1 Date 03/30/90		2 Severity Level <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3		Page 1 of 23	
	3 Discovered During YMP Audit 90-1		3a Identified By F.D. Peters		4 SDR No. 512 Rev. 0	
	5 Organization Los Alamos		6 Person(s) Contacted D. Hobart, B.M. Crowe		7 Response Due Date is 20 Working Days from Date of Transmittal	
	8 Requirement (Audit Checklist Reference, if Applicable) (T-67, T-112, T-116) Los Alamos procedure TWS-QAS-QP-03.2, Rev. 0, Para. 6.2.1, requires reviewers to be technically qualified and certified per QP-02.1 (for Los Alamos YMP and Los Alamos YMP subcontractor personnel) or					
Completed by Organization in Block 5	9 Deficiency Non-Los Alamos or subcontractor YMP personnel have performed technical reviews of documents in accordance with QP-03.2 and QP-03.5 without documentation or certification of qualification or indoctrination to					
	10 Recommended Action(s): <input checked="" type="checkbox"/> Remedial <input checked="" type="checkbox"/> Investigative <input checked="" type="checkbox"/> Corrective Identify the remedial actions to be taken to correct the deficiencies noted in Block 9. Investigate the program, process, activities, or documentation to					
	11 QAE/Lead Auditor/Date <i>S. Dene</i> 4/9/90		12 Division Manager/Date N/A 4-12-90		13 Project Quality Mgr./Date <i>Chen</i> 4-12-90	
	14 Remedial/Investigative Action(s) Refer to Page 3 of 3					
Completed by Organization in Block 5	15 Effective Date June 29, 1990					
	16 Cause of the Condition & Corrective Action to Prevent Recurrence Refer to Page 3 of 3					
	17 Effective Date July 31, 1990					
	18 Signature/Date <i>HP Munoz</i> 5/18/90					
Comp. by Orig. QA Org.	19 Response Accepted		QAE/Lead Auditor/Date <i>S. Dene</i> 5/3/90		Division Manager/Date N/A	
	20 Corrective Action Verif. Satisfactory		QAE/Lead Auditor/Date <i>HP Munoz</i> 5/18/90		Division Manager/Date N/A	
	21 Remarks Response 5/17/90 - TWS-EE5-13-05-90-066 Accept Response, YMP: CEH-3552, 6-5-90 COPIES OF CHANGE REQUESTS ATTACHED. RBC. 10/17/90		Project Quality Mgr./Date <i>Chen</i> 5/3/90		Project Quality Mgr./Date <i>Chen</i> 5/3/90	
	22 QA CLOSURE		QAE/Lead Auditor/Date <i>HP Munoz</i> 5/18/90		Division Manager/Date N/A	

ENCLOSURE

**YMPO STANDARD DEFICIENCY REPORT
CONTINUATION SHEET**

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CHM

8 Requirement (continued)

authorized by a Los Alamos Group Leader on a Reviewer Qualification form (for persons "not associated with the Project").

Los Alamos procedure TWS-QAS-QP-03.5, Rev. 0, Para. 4.8, provides for technical reviewers of laboratory notebooks, field notebooks, and logbooks to have the training and experience to understand and repeat the work being reviewed, but does not specifically require documentation or certification of the reviewer's qualification basis.

9 Deficiency (continued)

applicable Los Alamos procedures for the reviews and for the activities being reviewed.

1. Report LBL-27173A, "Solubility Studies of Transuranic Elements for Nuclear Waste Disposal: Principles and Overview" was technically reviewed by a Lawrence Livermore National Laboratory (LLNL) employee.
2. Paper, "Basaltic Volcanic Episode of the Yucca Mountain Region" for the 1990 International High Level Waste Management conference was technically reviewed by a DOE/YMP employee.
3. Field notebooks for volcanism studies (WBS 1.2.3.2.5; SP 8.3.1.8.1.1, 8.3.1.8.5.1) were technically reviewed by a DOE/YMO employee.

COMMENTS:

QP-02.1, referenced by QP-03.2, has been superseded by TWS-QAS-QP-02.5, Rev. 0, TWS-QAS-QP-02.6, Rev. 0, and TWS-QAS-QP-02.9, Rev. 0. QP-02.5, QP-02.6, and QP-02.9 apply only to Los Alamos YMP Personnel (Los Alamos employees) and Los Alamos subcontractors working under the Los Alamos YMP QA program. The procedures do not apply to DOE/YMP personnel or employees of other project participants.

A similar condition was previously identified during YMP Audit 89-07 by Observation No. 89-07-04. The Los Alamos response clarification to that observation stated "Training files for non-employees who have performed quality related work will be updated in accordance with approved changes to the program."

10 Recommended Actions (continued)

determine the extent and depth of similar deficient conditions to those listed on the SDR. Identify these deficiencies and provide the measures required to correct them. Identify the cause of the condition and the planned corrective action to prevent recurrence.

VERIFICATION REMARKS: CHANGE REQUESTS N^o 130, 131 & 160 GENERATED AND ISSUED BY LTR NS 10/10/90. THIS WAS THE RESULT OF INVESTIGATIVE ACTIONS. REVIEWER FILES WERE UPDATED AS REQUIRED TO INCLUDE QUAL. & TRAIN. INFO.

RBL 10/16/90

14. Remedial/Investigative Actions

Remedial Actions: R. Morley will review the documentation files for Report LBL-27173A, "Basaltic Volcanic Episode of the Yucca Mountain Region," and Volcanism field notebooks for compliance with the appropriate implementing procedural requirements. The reviewer documentation files will be updated to include qualification and training information on the reviewers involved with the above listed items.

Investigative Actions: LANL QALs will review the documentation for internal technical reviews for fiscal years 1989 and 1990 to ascertain if any non-LANL YMP personnel performed technical reviews. Those personnel will be cross checked against the qualification files to ensure that they are qualified and trained for this function. The appropriate files will be updated based on the results of this review, and each QAL will send a written report of actions, if any, to the QAPL.

16. Cause of the Condition and Corrective Action to Prevent Recurrence

Cause of the Condition: The LANL QA procedural requirements were unclear for non-LANL reviewers conducting technical reviews.

Corrective Action to Prevent Recurrence: The appropriate procedures will be revised to clearly define reviewer qualifications and training for both LANL and non-LANL personnel.