



**Department of Energy**

Nevada Operations Office  
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Las Vegas, NV 89193-8518

WBS 1.2.9.3  
QA

NOV 27 1989

Carl P. Gertz, Project Manager, YMP, NV

ACCEPTANCE OF RESPONSE TO OBSERVATION RESULTING FROM YUCCA MOUNTAIN PROJECT  
OFFICE (PROJECT OFFICE) QUALITY ASSURANCE (QA) AUDIT 89-06 OF LAWRENCE  
LIVERMORE NATIONAL LABORATORY (LLNL)

The Project Office QA staff has evaluated the response to Observation 89-06-03,  
generated as a result of Project Office QA Audit 89-06 of LLNL. The response  
to this observation is acceptable. A copy of the observation is enclosed for  
your information.

If you have any questions, please contact James Blaylock of my staff at  
794-7913, or Sidney L. Crawford of the Technical and Management Support  
Services at 794-7165.

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

YMP:JB-946

Enclosure:  
Observation 89-06-03

cc w/encl:

Ralph Stein, HQ (RW-30) FORS  
D. E. Shelor, HQ (RW-3) FORS  
J. J. Brogan, SAIC, Las Vegas, NV, 517/T-12  
K. A. Hodges, SAIC, Las Vegas, NV, 517/T-06  
J. H. Nelson, SAIC, Las Vegas, NV, 517/T-04  
S. L. Crawford, T&MSS, Las Vegas, NV, 517/T-06  
S. W. Zimmerman, NWPO, Carson City, NV  
J. E. Kennedy, NRC, Washington, DC

cc w/o encl:

A. L. Temple, SAIC, Las Vegas, NV, 517/T-38  
J. W. Gilray, NRC, Las Vegas, NV

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**YUCCA MOUNTAIN PROJECT OFFICE**  
**1 YMPO OBSERVATION NO. 89-6-03**

N-QA-012  
4/89

Completed by Originating Organization

2 Noted During: YMP QA Audit 89-6	3 Identified By: S. L. Crawford	4 Date: 6/6/89
5 Organization: YMPO	6 Person(s) Contacted: R. Schwartz, W. Glassley	7 Response Due Date is 20 Days from Date of Transmittal

8 Discussion:

Neither LLNL/QAPP-033-YMP-R8 or procedure 033-YMP-QP 8.0 define "long term" for sample storage to identify those samples requiring special storage criteria to prevent deterioration, or change of sample chemical or physical characteristics. Furthermore, the YMP QAPP/NNWSI 88-9, Section VIII does not define "long term" and passes the responsibility for definition to individual project participants.

In actual practice, although no QA Level I samples have been collected or received by LLNL, all rock and mineral samples are intended to be stored as

9 QAE/Lead Auditor <i>J. Zinn</i>	Date 6/29/89	10 Branch Manager <i>M. Balonik</i>	Date 6-29-89
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Completed by Responder

11 Response:

Since this effects all the project participants we think this definition should be included in the NNWSI 88-9. Therefore, the definition of long-term storage of samples will be added to the Appendix-A terms and definitions section of NNWSI 88-9 during its next revision.

12 Signature: *B. Good* Date: 7/21/89

Completed by QA Org.

13 Response Receipt Acceptable

Initiator <i>R. Hedges</i>	Date 11/20/89	QA/Lead Auditor <i>T. W. Nohel for D. Hedges</i>	Date 11/20/89
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14 Remarks:

ENCLOSURE

8 Discussion: ( continued )

"long term" (without specific definition of that term) with protection only from external contamination as the basic storage control.

Since sample collection, storage, and retention is to be accomplished by several participants, "long term" storage should be defined by the Project Office to assure consistency of definition and comparability of stored samples.