



## Department of Energy

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

WBS 1.2.9.3  
QA

SEP 18 1990

Larry R. Hayes  
Technical Project Officer  
for Yucca Mountain Project  
U.S. Geological Survey  
101 Convention Center Drive  
Suite 860  
Las Vegas, NV 89109

ACCEPTANCE OF RESPONSE TO STANDARD DEFICIENCY REPORT (SDR) 553, REVISION 0,  
RESULTING FROM YUCCA MOUNTAIN PROJECT OFFICE (PROJECT OFFICE) QUALITY ASSURANCE  
(QA) AUDIT 90-03 OF U.S. GEOLOGICAL SURVEY (USGS)

The Project Office QA staff has evaluated and accepted your response to  
SDR 553, Revision 0, generated as a result of Project Office QA Audit 90-03  
of USGS. The SDR will be closed after verification of satisfactory completion  
of the specified corrective actions. A copy of the SDR is enclosed for your  
information.

Verification of completion of your corrective action will be performed after  
the effective date that was provided. Extensions to due dates must be  
requested in writing with appropriate justification prior to the due date.  
Please send copies of extension requests to Nita J. Brogan, Science  
Applications International Corporation, 101 Convention Center Drive,  
Las Vegas, Nevada 89109.

If you have any questions, please contact Catherine E. Hampton at 794-7973 or  
or Kenneth T. McFall at 794-7280 of the Yucca Mountain Project QA staff.

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

QA:CEH-5035

Enclosure:  
SDR 553, Revision 0

cc w/encl:  
D. H. Appel, USGS, Denver, CO  
S. W. Zimmerman, NWPO, Carson City, NV  
K. R. Hooks, NRC, Washington, DC

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SEP 18 1990

Larry R. Hayes

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cc w/o encl:

N. J. Brogan, SAIC, Las Vegas, NV, 517/T-08  
S. R. Dippner, SAIC, Las Vegas, NV, 517/T-08  
K. T. McFall, SAIC, Las Vegas, NV, 517/T-06  
D. D. Porter, SAIC, Golden, CO  
J. W. Gilray, NRC, Las Vegas, NV

**YMPO STANDARD DEFICIENCY REPORT**

N-QA-038  
4/89

Completed by Originating QA Organization	1 Date 7/2/90		2 Severity Level <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3		Page 1 of 24
	3 Discovered During Audit YMP-90-03		3a Identified By K. T. McFall		4 SDR No. 553 Rev. 0
	5 Organization USGS		6 Person(s) Contacted Larry Hayes John Stuckless		7 Response Due Date is 20 Working Days from Date of Transmittal
	8 Requirement (Audit Checklist Reference, if Applicable) 1. YMP-USGS-QMP-3.05, Rev. 2, Para. 5.3 states in part, "Review of Criteria Letters shall be performed by the USGS QA Manager and the Chief, Branch of YMP or their delegates, for technical completeness, accuracy, clarity of statement"				
Completed by Organization in Block 5	9 Deficiency 1. Contrary to the above requirement, the Criteria Letter titled "Criteria Letter For Water Sampling At Well UE 25p#1", dated 4/17/90 was not submitted to the USGS QA Manager for review.				
	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. In addition, review the criteria letters issued since the effective				
	11 QAE/Lead Auditor/Date Kenneth McFall 7-16-90	12 Division Manager/Date W/A		13 Project Quality Mgr./Date 7-17-90	
	14 Remedial/Investigative Action(s)  15 Effective Date  See attached response dated 8-20-90.				
Completed by Org. QA Org.	16 Cause of the Condition & Corrective Action to Prevent Recurrence 17 Effective Date				
	18 Signature/Date Larry R. Hayes 8/20/90				
	19 Response Accepted	QAE/Lead Auditor/Date Kenneth McFall 9-10-90	Division Manager/Date W/A	Project Quality Mgr./Date 9-10-90	
Comp. by Orig. QA Org.	20 Corrective Action Verif. Satisfactory	QAE/Lead Auditor/Date	Division Manager/Date	Project Quality Mgr./Date	
	21 Remarks Response, Hayes to Horton, 8-20-90				
Comp. by Orig. QA Org.	22 QA CLOSURE	QAE/Lead Auditor/Date	Division Manager/Date	PQM/Date	

**ENCLOSURE**

YMPO STANDARD DEFICIENCY REPORT  
CONTINUATION SHEET

N-QA-038  
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SDR No. 553

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8 Requirement ( continued )  
and applicable QA requirements...."

mt  
9/13/90

2. Additional requirements of YMP-USGS-QMP-3.05, Rev. 2

- A. Para. 5.1 Section "e" requires the criteria letter to include the description of location.
- B. Para. 5.1 Section "f" requires definition of specific criteria, requirements, and applicable procedures for work to be performed by NTS Contractors.
- C. Para. 5.1 Section "g" requires that equipment to be provided by the USGS be specified.
- D. Para. 5.2 requires the assignment and inclusion of a unique control number and that the control number be located in the upper right-hand corner of each page along with the page numbering system.

9 Deficiency ( continued )

2. Contrary to the above requirement in Block 8:

- A. There was no location description included in the criteria letter.
- B. There were no specific criteria, requirements, or applicable procedures for work to be performed by NTS Contractors.
- C. There was no listing of the equipment to be provided, if any, by the USGS.
- D. There was no assignment of a unique control number or its location in the upper right-hand corner of each page along with the page numbering system.

10 Recommended Actions ( continued )

date of YMP-USGS-QMP-3.05, 6/5/89, for similar deficiencies and provide the measures required to correct them.

USGS RESPONSE TO YMPO STANDARD DEFICIENCY REPORT (SDR) NO. 553

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BLOCK 14: REMEDIAL/INVESTIGATIVE ACTION(S):

USGS Nonconformance Report (NCR) 90-28 was generated during YMPO Audit 90-03 to document that the Criteria Letter (cited in Block 9 of this SDR) had not received YMP-USGS QA review as required by QMP-3.05, R2. Corrective actions for this Criteria Letter will be handled specifically by the NCR.

An investigation is underway to assess the scope/extent of the deficiency regarding criteria letters generated since June 5, 1989, that have not been reviewed by QA. This investigation will be completed and the results forwarded in a supplemental response to the Project Office by August 30, 1990.

Specific remedial actions for deficient criteria letters will be outlined in the Supplemental Response.

BLOCK 15: EFFECTIVE DATE: August 30, 1990 - Provide Supplemental Response

BLOCK 16: CAUSE OF THE CONDITION & CORRECTIVE ACTION TO PREVENT RECURRENCE:

The specific cause and preventive action(s) will be based upon the results of the investigation, and will be outlined in the supplemental response.

BLOCK 17: EFFECTIVE DATE: August 30, 1990 - Provide Supplemental Response

USGS SUPPLEMENTAL RESPONSE TO YMPO STANDARD DEFICIENCY REPORT (SDR) NO. 553  
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The following information is provided to supplement the 8/20/90 response to this SDR:

## BLOCK 14 REMEDIAL/INVESTIGATIVE ACTION(S):

The investigation of criteria letters issued by the USGS since 6/5/89 has been conducted. The results of the investigation indicate that the QA review was completed and documented as required by QMP-3.05 for the criteria letters listed below.

YMP-USGS-3332G-01-C1, RO	YMP-USGS-3360G-01-C1, RO
YMP-USGS-3331G-01-C1, RO	YMP-USGS-3343G-01-C1, RO
YMP-USGS-3310G-01-C2, RO	YMP-USGS-123233G-01-C2, RO
YMP-USGS-3242G-01-C1, RO	

By-passing the required QA review for criteria letters is an isolated occurrence. The one criteria letter, originally cited as a deficiency in this SDR, will be evaluated and necessary actions completed in accordance with the approved disposition for YMP-USGS-NCR-90-28.

BLOCK 15 EFFECTIVE DATE: Complete - Investigation.

## BLOCK 16 CAUSE OF THE CONDITION &amp; CORRECTIVE ACTION TO PREVENT RECURRENCE:

The isolated incident was caused by an oversight. The PI and Technical Project Officer are aware of the QMP-3.05 requirements. In fact, a recent criteria letter (123233G-01-C2, RO noted in block 14) that met the requirements of QMP-3.05 was prepared by the PI and approved by the TPO and QA Manager. No additional preventive actions are warranted.

BLOCK 17 EFFECTIVE DATE: Complete.

Block 18 *Larry R. Hayes* August 30, 1990  
Larry R. Hayes, YMP-USGS Technical Project Officer

*Ltr dtd 8/30/90 - Hayes to Norton*