

#### **Department of Energy**

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

WBS 1.2.9.3 QA

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

ISSUANCE OF STANDARD DEFICIENCY REPORTS (SDRS) 553 THROUGH 561, REVISIONS 0, AND OBSERVATIONS 90-03-01 THROUGH 90-03-10, RESULTING FROM YUCCA MOUNTAIN PROJECT OFFICE (PROJECT OFFICE) QUALITY ASSURANCE (QA) AUDIT 90-03 OF THE U.S. GEOLOGICAL SURVEY (USGS)

Enclosed are SDRs 553 through 561, Revisions 0, and Observations 90-03-01 through 90-03-10, generated as a result of Project Office QA Audit 90-03 of the USGS.

Please identify the corrective actions to be taken and implemented to correct the deficiencies by completing Blocks 14 through 18, as appropriate, of each SDR. In addition, please respond to the observations by completing the response section of each observation.

Responses are due within 20 working days of the date of this letter. Any extension to this due date must be requested in writing with appropriate justification prior to the due date. Please send the original of your responses to Nita J. Brogan, Science Applications International Corporation, 101 Convention Center Drive, Las Vegas, Nevada 89109.

Your cooperation and timely response is appreciated. If you have any questions, please contact either Catherine E. Hampton at 794-7973 or Richard L. Maudlin at 794-7290.

Donald G. Horton, Director

Quality Assurance

Yucca Mountain Project Office

YMP:CEH-4248

Enclosures:

1. SDRs 553 through 561, Revisions 0

2. Observations 90-03-01 Through 90-03-10

> 102.1 WM-11

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Organization	3 Discovered During Audit YMP-90-03	3a Identified By K. T. McFall		4 SDR 553	No. Rev. <u>0</u>		
	5 Organization USGS	6 Person(s) Co	ontacted John Stuckless	20	ponse Due Date is Working Days from e of Transmittal		
Originating QA	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						
by	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.						
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### YMP STANDARD DEFICIENCY REPしれて CONTINUATION SHEET

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

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Organization	3 Discovered During YMP-90-03	3a Identified By R. Weeks and M. Meyer	•	4 <b>SDR No.</b> 554 Rev. 0				
	5 Organization USGS	6 Person(s) Contac Peggy Warner	ted	7 Response Due Date is 20 Working Days from Date of Transmittal				
Originating QA	8 Requirement (Audit Checklist Reference, if Applicable) SCP Management Plan, Revision 2, Paragraph 6.3 states in part, "The participating organization will submit clean, typed initial draft text that is consistent with the required format (Section 3.4) to the							
þ	following conflicts had not been corrected using the Study Plan							
change process provided in the SCP Management Plan, Revision 2:  10 Recommended Action(s):  Remedial Investigative Corrective								
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### YMP STANDARD DEFICIENCY REPORT CONTINUATION SHEET

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8 Requirement (continued)

WMPO for review..."

SCP Management Plan, Revision 2, Paragraph 3.4 states in part, "Programatic guidance relative to the content requirements and level of detail for Study Plans was developed by and received concurrence from the DOE and the NRC in the May 7-8, 1986, SCP level-of-detail meeting (see Appendix A)."

- 9 Deficiency (continued)
  - 1) Paragraph 3.1.1 (p. 3.1-2) states that transferring geologic data from photos to base maps is a QA Level III work; Appendix A (p. A-5) states that this work is QA Level I.
  - 2) Study Plan 8.3.1.4.2.2 was sent to DOE on 12-20-88 (see letter Langer to Gertz) with reference to obsolete Technical Procedure GP-01, Revision 0 although, GP-01, Revision 1 had been issued on 11-8-88. Examples of references to GP-01, Revision 0, which was obsolete at the time Study Plan 8.3.1.4.2.2 was issued, are as follows:
    - o Paragraph 2.1 (p.2.1-1)
    - o Paragraph 3.4.3 (p. 3.4-5)
    - o Table 3.1-1 (p. T-17)
  - 3) Table 3.2-1 (p. T-18) requires compliance with both Revisions 0 and 1 of Technical Procedure GP-12. Table 3.2-1 also indicates that the date of issue for both revisions of this procedure is 3-6-83.

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	5 Organization USGS	1	Person(s) Conta ZIEMBA, M. M				7 Response 20 Work Date of	ing Day	ys from
QA	8 Requirement (Audit	Checklis	t Reference, if	Applicable)					
Originating	USGS-QMP-15.01, Rev. 4, states in part:								
by	9 Deficiency NCRs are not being processed in accordance with procedural requirements. A sampling of NCRs revealed procedural noncompliances in four of seven: NCRs 89-24, 89-26, 89-30, and 90-02.								
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555 SDR No. Page 2 of 38 Requirement (continued) When the methods specified in Para. 5.5.1 and 5.5.2 are not Para. 5.5.3 necessary, the assigned personnel shall assure that the documented condition is adequately identified and described and shall propose a disposition. Para. 5.5.3a ... The proposed disposition actions have been categorized, such as repair, rework, ... Para. 5.5.3c ... The cause and, if appropriate, action(s) to preclude recurrence, have been described ... Para. 5.5.4 The NCR shall be forwarded to the cognizant personnel or office for review and approval of the proposed disposition. Para. 5.5.5 The NCR is next forwarded to the QA office for review and approval which shall ensure that appropriate QA requirements have been included. The OA Manager or delegate shall ensure that the information identified in Para. 5.5.3 has been included or considered in the disposition. Para. 5.6.3 Upon completion of the disposition actions, the responsible personnel shall sign and date Part III of the NCR, then notify the QA office of action completion. Para. 5.7.3 If verification of the disposition and related records is acceptable, the QA Manager or delegate shall sign and date Part IV of the NCR ... ... If the condition or item is not out of conformance, the NCR Para. 5.1.5 shall be voided and the initiator of the NCR shall be informed of the basis for the voidance. 9 Deficiency (continued) 89-24 - Corrective action to prevent recurrence not addressed 89-26 - Two different dispositions indicated Disposition action not signed as required Corrective action to prevent recurrence not addressed 89-30 - Disposition not referenced on NCR Disposition not approved by supervisor Disposition not approved by QA Disposition action not signed as completed Verification action completed and accepted, but NCR not closed

NCR was voided; the reason was not clear or correct

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9 Deficiency ( continued )

90-02 - Disposition block not marked
Disposition action not approved as completed

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Originating QA		s. 2 &	st Reference, if A 3 Section 1 stating, determining	es that th					
by	9 Deficiency Contrary to the requirements cited, on at least three occasions Corrective Action Reports (CARs) were not initiated to document recurring conditions adverse to quality, or potentially adverse to quality, identified in the								
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8 Requirement ( continued )

for significant or recurring conditions adverse to quality or potentially adverse to quality, that include but are not limited to a breakdown of the USGS QA program and repetitive nonconformances.

QMP-16.01, Revs 2 & 3 Section 5.1.1 states in part "Any USGS personnel or USGS contractor personnel that observe a condition adverse to quality or potentially adverse to quality, are responsible for initiating a Corrective Action Report (CAR) and for notifying immediate and upper levels of management of the adverse condition."

9 Deficiency (continued)

September and November 1989 Trend Analysis Reports, and the March 1990 Trend Analysis Report.

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Organization	3 Discovered During AUDIT 90-03	3a Identified C.C. Warren	Ву			4 SDR No. 557	Rev. <u>0</u>			
	5 Organization USGS	6 Perso	n(s) Contac	ted		20 Worki	e Due Date is ng Days from Transmittal			
Originating QA	8 Requirement (Audit Checklist Reference, if Applicable) YMP-USGS-QMP 17.01, Rev. 3 identifies the following requirements for record source:									
by	9 <b>Deficiency</b> Contrary to the above requirements, a sample of 10 record packages from the LRC indicated the following:									
Completed	10 Recommended Action(s): A Remedial A Investigative A Corrective  Identify the remedial action to be taken to correct the deficiencies noted in Block 9. Investigate the program, process, activities, or documentation									
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- 8 Requirement ( continued )
  - A. 5.1.4 INDEXING PARAMETERS: The Record Source shall ensure that the following indexing parameters for each Project record are available on the record prior to submittal to the LRC:
    - o QA designation for correspondence (for QA Level I and II records designate "QA: QA" or for QA Level III, N/A or IND records designate "QA: N/A").
    - o QA designation for packages ("QA levels I, II, III, N/A, or IND").
    - o The Work Breakdown Structure (WBS) designation (through six digits when appropriate and separated by decimal points) of the subject of all QA records with periods.
  - B. 5.1.7 RECORD INSPECTION: The Records Source responsible for submitting the record (QA and/or non-QA) to the LRC shall inspect the record(s) prior to submittal to ensure the following:
    - 5.1.7.1 Completeness That all pages of the record, including attachments or enclosures, are accounted for and that all blocks on forms (including signature lines) are filled in or "N/A" (not applicable) is entered.
    - 5.1.7.2 Copy Suitability That written/typed records are legible, reproducible, and can be microfilmed in accordance with the standards for processing and microfilming outlined in Attachment 5 of this procedure and the following:
    - c. Records shall not have any information scratched out or obliterated by correction fluids, etc., or have extraneous information handwritten on the record (with the exception of corrections made in accordance with Para. 5.1.8 of this procedure). If new information has been added to a record previously submitted to the LRC, it constitutes a new and separate record.
    - d. No portion of any page shall be missing due to tearing or folding of the record edges nor, to the extent feasible, nor shall it contain stamps or other marks that obliterate text or other information.
  - C. 5.1.8 CORRECTIONS TO RECORDS: The Record Source may make corrections to completed written/typed records that have not been processed. Corrections shall be made by scribing a single line through the incorrect information using indelible black ink and entering the correct information in close proximity to the line-out. The incorrect information shall remain legible. The correction shall include the date and initials or signature of the Record Source making the correction. Erasures or correction fluid of any type shall not be used as a means of

#### YMP STANDARD DEFICIENCY REPORT **CONTINUATION SHEET**

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8 Requirement (continued)

correcting information on records.

- D. 5.1.9.1 General Requirments The following requirements apply to submittal of all Packages.
  - o Prepare a Table of Contents for each package that lists all records that are contained in the package. In the upper right corner of the first page, list the WBS number under which the Record Source activities are governed and the OA Level corresponding to the subject activity.
- E. 5.2.1 TRANSMITTAL TO THE LRC: Records shall be forwarded to the LRC no later than 10 working days after either the completion date shown on the record, the date the Record Source receives the published manuscript, or after closeout of a record package (packages require a transmittal form see Attachment 6). Correspondence is submitted directly to the LRC on an ongoing basis within 10 days of receipt or completion. YMP Records prepared by non-USGS Project departments.
- 9 Deficiency (continued)
  - A. Five of the Record Packages contained records that did not indicate all required Indexing Parameters. Missing parameters included QA Designation/Level and WBS Designation.
  - B. & C. One of the Record Packages contained a record with extensive use of correction fluid (in excess of 20 instances)
  - The Table of Contents for six of the Record Packages did not list all records that were contained in the Package.
  - E. Five of the Record Packages were not forwarded to the LRC within 10 working days after the completion date shown on the record.

The following Record Packages were reviewed:

NCR Package 89-26 Study Plan 8.3.1.2.1.3 NCR Package 89-30 Audit Package EA 90-02 NCR Package 90-02 Audit Package USGS 89-03 CAR Package 89-13 Surveillance Package 90-S05 Study Plan 8.3.1.4.2.2 Surveillance Package 90-S17

#### 10 Recommended Actions (continued)

to determine the extent and depth of similar deficient conditions listed as examples on the SDR. Identify the cause of the condition and the planned action to prevent recurrence.

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Originating QA	YMP-USGS-QMP 17.	•	oplicable) erify that all Records	s listed within the					
þ	9 Deficiency Contrary to the above, the LRC was not adequately performing quality verification of QA Record Packages. The following deficient conditions were identified:								
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8 Requirement ( continued )

Table of Contents to a Record Package are within that Record Package."

Para. 5.3.4 states, "The LRC shall check the Records which are being received by using the Quality Verification Checklist (Attachment 4)."

Para. 5.4 states, "The LRC shall transmit the completed Records to the CRF within 10 working days of receipt from the Record Source."

- 9 Deficiency (continued)
  - a. QA Levels (I, II, III, N/A, or IND) were not indicated on QA Record Packages (listed on the Table of Contents). (2 out of 10 packages sampled were deficient).
  - b. QA designations (QA or N/A) were not indicated on individual QA Records. (5 out of 10 packages sampled were deficient).
  - c. Individual QA Records either have no WBS number or have conflicting WBS (5 out of 10 packages sampled were deficient).
  - d. Attachments and enclosures to individual QA Records are not being accounted for prior to submittal to CRF. (One out of 10 packages sampled were deficient).
  - e. The Table of Contents does not list all individual QA Records in QA Record Packages. (6 out of 10 packages sampled were deficient).
  - f. Aerial photographs indicated by the Table of Contents for Package GS.89.M00022 were missing from the Package. These photos are one of a kind records. (This package was removed by others on the Audit Team)

The Audit Team sampled approximately 1% of all LRC QA Record Packages. Reviewed Record Packages include:

NCR Package 89-26 CAR Package 89-13
NCR Package 89-30 Audit Package EA 90-02
NCR Package 90-02 Audit Package USGS 89-03
Study Plan 8.3.1.4.2.2 Surveillance Package 90-S05
Study Plan 8.3.1.2.1.3; Surveillance Package 90-S17

NOTE: Prior to 08/21/89, LRC was required to complete and sign the Quality Verification Checklist. The 08/21/89 modification to QMP-17.01 caused the checklist to be used as only a guide. The checklist covers many items addressed in this SDR.

10 Recommended Actions (continued)

to determine the extent and depth of similar deficient conditions listed as examples on the SDR. Identify the cause of the condition and the planned

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10 Recommended Actions (continued) action to prevent recurrence.

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by	9 Deficiency Contrary to the above requirement, record package No. GS.89.M.00025 contained illegible copies of aerial photos and field notebooks (by Scott 10/20/81 - 4/26/84) with illegible information.								
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8 Requirement ( continued )
 microfilming..."

9 Deficiency (continued)

Specific problems:

- o QA records submitted to the LRC had illegible information written on them. An example was aerial photos which documented sample locations however, the identifiers for specific sample locations were not legible.
- o Entries in field notebooks are not always legible (pencil entries) examples on pages 1, 2, 7, 8, 11, and 13. (Notebook No. 1)

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	·	YMPO STANDARD DE	FICIENCY REPO	, RT	N-QA-038 4/89			
	1 Date 6-28-90	2 Severity Le	evel 🗆 1 🔀 2	]3 Page 1	of 2			
Organization	3 Discovered During YMP-90-03	3a Identified By R. Weeks and B. Hurley		4 SDR No. 560 Re	v0			
	5 Organization USGS	6 Person(s) Contact R. Spengler and F		7 Response Du 20 Working Date of Tran	Days from			
Originating QA	8 Requirement (Audit Checklist Reference, if Applicable) AP-1.7Q, Revision 2, Paragraph 2.0 states in part, "This procedure is applicable to the Project Office and all other Project participants and to Project records generated, purchased, received, and/or maintained as							
by	9 Deficiency Contrary to the above requirement, YMP-USGS-QMP-17.01, Revision 3, fails to implement the above stated requirement of AP-1.7Q. As a result of this condition, USGS investigators have collected data for more than							
Completed	10 Recommended Ac	ction(s): 🔀 Remedial 🗌 In	ivestigative 🛚 🛣 Cori	rective				
Aprvl.	11 QAE/Lead Auditor/	Date 12 Division Mana	ager/Date /	3 Project Quality Mo	gr./Date 7-17-90			
5	14 Remedial/Investigat	91.7	<u> </u>					
Block			15 Effe	ctive Date				
ni i								
ıtion								
Organization	16 Cause of the Cond	dition & Corrective Action t	to Prevent Recurren	ce				
rga			17 Effe	ctive Date				
by C								
olete		····						
Completed	18 Signature/Date							
g.	19 Response Accepted	QAE/Lead Auditor/Date	Division Manager/D	ate Project Qualit	y Mgr./Date			
QA Org.	20 Corrective Action Verif. Satisfactory	QAE/Lead Auditor/Date	Division Manager/D	ate Project Qualit	y Mgr./Date			
	21 Remarks							
Orig.								
by								
Comp.								
O	22 QA CLOSURE QAE/I	Lead Auditor/Date Division	on Manager/Date	PQM/Date				

### YMI STANDARD DEFICIENCY REPORT CONTINUATION SHEET

N-QA-038 2/89

SDR No. 560 Page 2 of 2

8 Requirement ( continued )

a result of Project activities and functions...."

AP-1.7Q, Revision 2, Paragraph 5.5.4.3 states in part, "Interim record packages (data) shall be compiled and submitted to an LRC at 45 day intervals to ensure that all records are protected, accessible, and retrievable for Project use...."

9 Deficiency (continued)

80 days without submitting data to the Local Records Center (LRC).

#### Examples:

- 1) Data collected as part of Activity 8.3.1.4.2.2.2 has not been submitted to the LRC within the required 45 day period.
- 2) Data collected as part of Activity 8.3.1.5.2.1.3 has not been submitted to the LRC within the required 45 day period.
- 3) Data collected as part of Activity 8.3.1.2.3.1.2 has not been submitted to the LRC within the required 45 day period.

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YMPO STANDARD DEFICIENCY REPORT 4/8									
	1 Date JUNE 29, 199	90	2 Severity Le	vel 🗆 1	<b>⊠</b> 2 [	∃3	Page	1 of	3
Organization	3 Discovered During AUDIT 90-3	3a <b>lden</b> D. HARR J.E. CI	<b>tified By</b> IS/ ARK			4	SDR No. 561	Rev.	0
	5 Organization USGS	•	Person(s) Contac LANGSTEINER, A		DE	7	Response 20 Worki Date of	ing Day	s from
ð	8 Requirement (Audit	Checklis	st Reference, if A	pplicable)					
Originating	USGS-QMP-18.01, Rev. 4, states in part:								
by	9 Deficiency The audits program is not being consistently implemented in accordance with cited procedure requirements. Procedure violations were noted as follows: (See Page 3.)								
Completed	10 Recommended Act	tion(s):	Ϫ Remedial ເϪ Ir	ovestigative	⊠ Cor	rective	•		
Aprvl.	11 QAE/Lead Auditor/D		12 Division Man	•		з Proj	ect Quality	/ Mgr./[	Date 7-90
Αp	JEClark 7/16		NIP			ath	en To	igh	and .
х 5	14 Remedial/Investigativ	ve Actio	n(s)		15 Effe	ective	Date	1	U
Block	15 Effective Date								
in									
Organization	16 Cause of the Cond	lition & (	Corrective Action	to Prevent	Recurren	ice	<u>-</u>		
rgan					17 Effe		Date		
d by									
olete									
Completed	18 Signature/Date								
rg.	19 Response Accepted		ead Auditor/Date	Division M	·		Project C		
A Org.	20 Corrective Action Verif. Satisfactory	QAE/Le	ead Auditor/Date	Division M	1anager/D	ate	Project C	uality M	fgr./Date
O 21 Remarks							<del> </del>	***************************************	
Orig									
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ပ္ပိ	22 OAE/I	ead Au	ditor/Date Division	on Manager	·/Date	PQM	/Date		
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### YMP STANDARD DEFICIENCY REPORT CONTINUATION SHEET

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SDR No. 561 Page 2 of 3

#### 8 Requirement (continued)

- 1. Para. 5.1.2 INTERNAL AUDITS Applicable elements of the YMP-USGS

  QAPP shall be audited at least annually or at least once
  during the life of the activity, whichever is shorter.

  The scope of an audit shall be established by considering
  the results of any previous audits, the nature and
  frequency of identified deficiencies, and any significant
  changes in personnel, organization, or the QA Program.
- 2. Para. 5.5.4 As the audit progresses, any identified deficiencies and concerns shall be prepared by the audit team members and recorded on the Audit Finding Report (Attachments 4 and 5) or the Audit Observation form (Attachment 6), as appropriate.
- 3. Para. 5.9.2 Annual supplier evaluations, supplier performance audits, or source verification shall be identified in the USGS Audit Schedule (refer to Para. 5.1) and conducted as directed by the QA Manager. Applicable procurement-related requirements shall be incorporated into the Audit Checklist.
- Audit checklist characteristics or elements that have been selected shall be evaluated against specified requirements or effectiveness indicators and shall include a review of corrective actions taken on deficiencies identified during previous audits.
- 5. Para. 5.6 Audit Report: The Audit Team Leader, or delegate, shall prepare a written Audit Report that shall include the information shown in Attachment 7, as a minimum.

Attachment 7 requires the following:

AUDIT REPORT: (Include statement of the effectiveness of the QA program elements that were audited.)

#### 9 Deficiency (continued)

- 1. The Fiscal Year 90 Audit Schedule, Rev. 0, Rev. 1, and Rev. 2, do not reflect scheduled audits to cover QAPP elements 1 and 15.
- 2. In Audit 90-07, conditions documented on Observations No. 2 and 3 were issued as concerns, when they actually cite program violations.
- 3. The USGS YMP Audit Schedule and Vendor Evaluation Schedule do not contain 3 suppliers due for requalification: ENSECO Rocky Mountain Lab, Stable Isotope Lab, and USGS National Water Lab.

### YMPOSTANDARD DEFICIENCY REPORT CONTINUATION SHEET

N-QA-038 2/89

SDR No. 561

Page 3

of 3

- 9 Deficiency ( continued )
  - 4. US Bureau of Reclamation Audit 90-07 and USGS Internal Audit 90-02 took credit for determining implementation of program elements when the audit records indicated that those criteria were not audited.
  - 5. Audit 90-02 Audit Report did not contain an effectivness statement.

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	YUCCA MOUNTAIN PROJECT OFFICE  1 YMPO OBSERVATION NO. 90-03-01  N-QA-012 4/89									
on	2Noted During: Audit 90-03	<sup>3</sup> Identifie	ed By: A.E. Cocoros	<b>4Date</b> : 6/29/90						
ganizati	5Organization: USGS	i	(s) Contacted: P.Warner, y, K.Kohn	7 Response Due Date is 20 Days from Date of Transmittal						
Completed by Originating Organization	**BDiscussion:  The audit effort related to QM Personnel) reported that the I implemented in an acceptable m is marginal as reported by the Personnel were encountered who application of the requirement 2.07, a review of the Indoctri quality-related effort, reveal	ndoctrin anner. auditor did not s docume nation/T ed that	ation/Training Program was However, the effectiveness s of Criteria 3, 4, 7, 15, appear to fully understand nts. During the audit of ( raining Records of personne the Training/Indoctrination	being of the program 16 & 17. If the intent and OMPs 2.02 and If performing If Program is						
	<i>1. 1. 1</i>	Date 17/90	10 Branch Manager	Date 7-/7-90						
Completed by Respondee	<sup>11</sup> Response:									
	<sup>12</sup> Signature:		Date:							
Completed by QA Org.	13 Response Receipt Acceptable ☐ Initiator  14 Remarks:	Date	QA/Lead Auditor	Date						
Complete				Page _1 of _2						

#### YMPO ObsERVATION NO. 90-03-01 CONTINUATION PAGE

N-QA-012 1/89

8 Discussion: (continued)

directed predominately toward "required reading" type of effort as opposed to a formal classroom effort.

Since a "required reading" approach tends to only familiarize personnel with procedural steps rather than facilitating a complete understanding of the application of the procedure, it is recommended that USGS give strong consideration to conducting formal classroom Training/Indoctrination Programs for all personnel who are required to understand and implement specific requirements documents.

Page

URIGINAL THIS IS A RED STAND

	YUCC MOUNTAIN PROJECT OFFICE N-1 YMPO OBSERVATION NO. 90-03-02								
	2Noted During: Audit 90-03	<sup>3</sup> Identifie	ed By:	<sup>4</sup> Date:					
ion		R. Week	s, B. Hurley, K. Kersch	6/27/90					
izat	<sup>5</sup> Organization:	<sup>6</sup> Person	(s) Contacted:	7 Response Due Date is 20 Days from Date					
rgar	USGS	T. Chan	ey, R. Spengler	is 20 Days from Date of Transmittal					
O G	<sup>8</sup> Discussion:								
Completed by Originating Organization	YMP Administrative Procedure list of the procedures necessa include the revision number fo apparent discrepancies between found in the List of Controlle should amend their existing St number and with a statement th accordance with the revision i	ry to impress the Stude Documer udy Planat the actions to the second control of the seco	plement that Plan. It is to rocedure as well. This has dy Plan-listed revision numents at the time of comparises to list procedures without ctivity will be performed in	USGS practice to see resulted in abers and those son. The USGS at revision					
0		Date	10 Branch Manager	Date					
	Richard L. Wells 7/	16/90	Cathe Threat	le 7-17-90					
Completed by Respondee	11 Response:								
	<sup>12</sup> Signature:		Date:						
	<sup>13</sup> Response Receipt Acceptable □	, <u>-</u>							
		Date	QA/Lead Auditor	Date					
A Or	14Remarks:								
Completed by QA Org.									
Somplet									
				Page					
				1 of 2					

# YMPO C SERVATION NO. 90-03-02 CONTINUATION PAGE

N-QA-012 1/89

8 Discussion: ( continued )

This approach should be adopted in future Study Plans as well.

Page

2 of 2

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	1 YMPO OBSERVATION NO. 90-03-03 4/89								
on	2Noted During: Audit 90-03	<sup>3</sup> ldentifie Gilkers	,	<b>4Date:</b> 06/29/90					
rganizati	<sup>5</sup> Organization: USGS	6Person Mustard	(s) Contacted: Martha	7 Response Due Date is 20 Days from Date of Transmittal					
Completed by Originating Organization	8 Discussion:  QMP 4.01, Rev. 3, Par. 5.4.1, not award a QA Level I or II review of final procurement d Review of the Procurement Doc assure that the C.O. releases Surveillance 90-S05-OBS1 docu recommended that USGS conside approving that QA requirement	final procumenta umentati POs only ments the rhaving	ocurement document until retion. (Attachment 3, QA & on.) No procedural controly after QAs documented review occurrence of such an and the QA organization sign of	eceipt of the Technical s exists to lew. USGS commanders of the PO					
•		Date	10 Branch Manager	Date 7/17/9C					
Completed by Respondee	<sup>11</sup> Response:								
	<sup>12</sup> Signature:		Date:						
	13 Response Receipt Acceptable ☐ Initiator  14 Remarks:	Date	QA/Lead Auditor	Date					
Completed by QA Org.				Page					
			•	1of_2_					

## YMPO OSERVATION NO. 90-03-03 CONTINUATION PAGE

N-QA-012 1/89

8 Discussion: ( continued )
 procedural controls.

Page

2 of 2

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1YMPO OBSERVATION NO. 90-03-04					
<sup>2</sup> Noted During:		•	<sup>4</sup> Date:		
Audit 90-03	Bob Constable-Ken Gilkerson		6/29/90		
5 Organization: USGS	<pre>6Person(s) Contacted: Tom Chaney, W. Rodman, M. Mustard</pre>		7 Response Due Date is 20 Days from Date of Transmittal		
Modification to QMP 7.01, Rev. 4, dated 6/8/90 eliminated the requirements for QA records for certain "commercial grade" items. Requirements for the acceptance of "commercial grade" items not requiring calibration should be addressed to delineate the following:  a) who receives "commercial grade" items not requiring calibration.  b) how are these items received.  c) what documentation is generated upon acceptance.  d) where does this documentation go.  Date    Opening   Date   Dat					
Kobert 13 Compatto	7/16/90	Catheria Sumoto	Lan 7-17-90		
r nesponse.					
<sup>12</sup> Signature:		Date:	;		
13Response Receint Accentable □					
Initiator	Date	QA/Lead Auditor	Date		
14Remarks:			Page _1of_2_		
	2Noted During: Audit 90-03  5 Organization: USGS  8 Discussion:  Modification to QMP 7.01, Rev. for QA records for certain "co acceptance of "commercial grad addressed to delineate the fol a) who receives "commercial gb) how are these items received what documentation is geneally where does this documentated by Where does this documentated by CAE/Lead Auditor  11 Response:  12 Signature:  13 Response Receipt Acceptable Initiator	2 Noted During: Audit 90-03  5 Organization: USGS  8 Discussion:  Modification to QMP 7.01, Rev. 4, dated for QA records for certain "commercial acceptance of "commercial grade" items addressed to delineate the following: a) who receives "commercial grade" items addressed to delineate the following: a) who receives "commercial grade" items how are these items received. c) what documentation is generated up d) where does this documentation go.  9 OAE/Lead Auditor Date 7 16 90  11 Response:	2Noted During: Audit 90-03  5Organization: USGS  8Discussion:  Modification to QMP 7.01, Rev. 4, dated 6/8/90 eliminated the received acceptance of "commercial grade" items. Requirement acceptance of "commercial grade" items not requiring calibration addressed to delineate the following: a) who receives "commercial grade" items not requiring calibration how are these items received. c) what documentation is generated upon acceptance. d) where does this documentation go.  9 OAS Lead Auditor  Pate 7 16 90  12 Signature:  Date:  13 Response Receipt Acceptable  Initiator  Date QA/Lead Auditor  Date QA/Lead Auditor		

# YMPO O SERVATION NO. 90-03-04 CONTINUATION PAGE

N-QA-012 1/89

- 8 Discussion: ( continued )
  - e) how is it processed and sent to the LRC.
  - f) how/when does USGS-QA verify the adequacy of this documentation.

Page

2 of 2

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1YMPO OBSERVATION NO. 90-03-05					
· uo	2Noted During: Audit 90-03	<sup>3</sup> Identifie	ed By: R. L. Maudlin	<b>4 Date:</b> 07/02/90	
ganizati	5Organization: USGS	6Person(s) Contacted: R. Luckey		7 Response Due Date is 20 Days from Date of Transmittal	
Completed by Originating Organization	During the review of calibration logs maintained at several data stations at the NTS, it was observed that the logs did not, in all cases, identify the procedural revision used to perform the calibration. It is recommended that all future entries in the logs at the NTS include the procedure and procedure revision used to do the calibration.  9QAE/Lead Auditor  Date  10Branch Manager  Date				
		16/90	1 st To se do	Date  ∼ 7-17-9 C	
Completed by Respondee	11 Response:				
	<sup>12</sup> Signature:		Date:		
Completed by QA Org.	13 Response Receipt Acceptable ☐ Initiator	Date	QA/Lead Auditor	Date	
	14 Remarks:			Page _1 of _1	

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	1 YMPO OBSERVATION NO. 90-03-06					
rganization	2Noted During: AUDIT 90-03 (USGS)	<sup>3</sup> Identifie	ed By: J.E. CLARK	4Date: JUNE 27, 1990		
	5Organization: USGS	6Person(s) Contacted: J. ZIEMBA, R. LUCKEY, A. WHITESIDE, ET AL		7 Response Due Date is 20 Days from Date of Transmittal		
Completed by Originating Organization	**BDiscussion:  The NCR system established in QMP-15.01, Rev. 4, is applied to both hardware and programmatic deficiencies. The dispositioning process requires assigning resolutions such as "rework," "repair," and "use-as-is," which do not help identify corrective actions necessary for programmatic deficiencies. A dedicated programmatic deficiency documentation system (possibly an adaptation of the system used for audit findings) would facilitate corrective action identification and implementation by eliminating the force-fitting of irrelevant dispositioning terms.  **POAE/Lead Auditor**  Date*    **Discussion**   **Discussion*					
		190	Cathon Hand	- B. 7-17-90		
Completed by Respondee	11 Response:					
	<sup>12</sup> Signature:		Date:			
rg.	<sup>13</sup> Response Receipt Acceptable  Initiator	Date	QA/Lead Auditor	Date		
Completed by QA Org.	14 Remarks:			Page _1of_1		

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	YUCC_MOUNTAIN PROJECT OFFICE N-QA-012 1YMPO OBSERVATION NO. 90-03-07 4/89					
on	2Noted During: Audit 90-03	3 Identifie	ed By: C.C. Warren	<b>4Date:</b> 6-26-90		
Completed by Originating Organization	<sup>5</sup> Organization: USGS	<sup>6</sup> Person	(s) Contacted: J. Ziemba	7 Response Due Date is 20 Days from Date of Transmittal		
	Procedure YMP-USGS-QMP-16.01, Rev. 3 requires verification of completion of corrective action for CARs be accomplished by audit, surveillance, or management review of the affected activity.					
Completed t	Verification of completion of corrective action for CAR 89-13 was accomplished by surveillance and found "not to be adequate or effective". Revision 1 to CAR 89-13 was issued to document this unsatisfactory verification. No additional corrective action was specified in the response to CAR 89-13, Rev. 1					
	9QAE/Lead Auditor	Date	10 Branch Manager	Date		
	CC Wan 7:	-16-90	( athere ) a	1-17-9C		
Completed by Respondee						
	<sup>12</sup> Signature:		Date:			
	<sup>13</sup> Response Receipt Acceptable □					
rg.	Initiator	Date	QA/Lead Auditor	Date		
Completed by QA Org.	14 Remarks:			Page _1 of_2		

### YMPO ( SERVATION NO. 90-03-07 CONTINUATION PAGE

N-QA-012 1/89

8 Discussion: ( continued )

although this response was accepted and closed by USGS Quality Assurance. Verification action on CAR 89-13, Rev. 1 was then marked "N/A - No Action". Therefore, CARs 89-13 and 89-13, Rev. 1 were closed out without a satisfactory verification of corrective action being performed. In addition, there was no documented justification for acceptance of the Revision 1 response without additional corrective action being specified.

Page

2 of 2

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:"	N-QA-012 4/89			
no	2Noted During: Audit 90-03	<sup>3</sup> Identifie	ed By: C.C. Warren	<b>4 Date:</b> 6-26-90
ganizati	5Organization: USGS	<sup>6</sup> Person(	(s) Contacted: J. Ziemba	7 Response Due Date is 20 Days from Date of Transmittal
Completed by Originating Organization	**BDiscussion:  Procedure YMP-USGS-QMP-16.01, Rev. 3 requires responsible management to identify cause and propose appropriate corrective action to prevent recurrence or provide a plan describing future actions to resolve the CAR.  A cause/corrective actions to prevent recurrence or a plan describing future actions to resolve the CAR were not clearly identified in the accepted response to CAR 89-11.			
	<sup>9</sup> QAE/Lead Auditor	Date	10 Branch Manager	Date
	C.C Warren	7-16-90	( Short hugh	1/17/pc
Completed by Respondee	11 Response:			
	<sup>12</sup> Signature:		Date:	
Completed by QA Org.	13 Response Receipt Acceptable ☐ Initiator  14 Remarks:	Date	QA/Lead Auditor	Date
)				Page _1 _ of _1

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	YUCCA MOUN 1YMPO OBSERV	N-QA-012 4/89		
on	2Noted During: Audit 90-03	<sup>3</sup> Identifie	ed By: C.C. Warren	<b>4 Date:</b> 6-26-90
ganizati	<sup>5</sup> Organization: USGS	<sup>6</sup> Person	(s) Contacted: J. Ziemba	7 Response Due Date is 20 Days from Date of Transmittal
Completed by Originating Organization	8 Discussion: Procedure YMP-USGS-QMP-16.01, Rev. 3 requires the initiator of a CAR to include in the description (part 4) a statement of immediate actions taken to remedy specific conditions, if immediate actions were necessary. None of the CARs reviewed during the audit included a statement of immediate actions taken although the following CAR identified conditions that appeared to require immediate action.			
တ	<sup>9</sup> QAE/Lead Auditor	Date	10 Branch Manager /	Date
	C.C.War	7-17-90	The third the terms of the term	/ 7-/7-00
Completed by Respondee	<sup>11</sup> Response:			
	<sup>12</sup> Signature:		Date:	
Completed by QA Org.	13 Response Receipt Acceptable  Initiator  14 Remarks:	Date	QA/Lead Auditor	Date
)				Page _1 of _2

### YMPO OBSERVATION NO. 90-03-09 CONTINUATION PAGE

N-QA-012 1/89

8 Discussion: ( continued )

CAR 89-14, "ADVERSE TREND IN CALIBRATION OF EQUIPMENT" CARS reviewed were 89-10, 89-11, 89-12, 89-13, 89-14, and 90-01.

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	1YMPO OBSERVATION NO. 90-03-10 4/89					
ganization	<sup>2</sup> Noted During: YMP-90-03	<sup>3</sup> Identifie	ed By: R.Weeks/M.Meyer	<b>4Date</b> : 6-28-90		
	<sup>5</sup> Organization: USGS	<sup>6</sup> Person(s) Contacted: Peggy Warner		7 Response Due Date is 20 Days from Date of Transmittal		
Completed by Originating Organization	Record package GS.89.M000112 was transmitted from the USGS LRC to the CRF stating that 786 pages were present in the record package; however, the CRF stated the page count to be 601 pages on the returned copy of the LRC Record Transmittal form. There is no indication that the LRC attempted to resolve the discrepancy that existed between the different page counts.					
	Pachard Auditor	Date //6 / 90	10 Branch Manager	Date  10 - 7-17-90		
Completed by Respondee	11 Response:					
	<sup>12</sup> Signature:		Date:			
Completed by QA Org.	13 Response Receipt Acceptable  Initiator  14 Remarks:	Date	QA/Lead Auditor	Date		
	raemarks:			Page _1 of_1		

cc w/encls:

D. G. Horton, HQ (RW-3) FORS

D. E. Shelor, HQ (RW-3) FORS

K. R. Hooks, NRC, Washington, DC S. W. Zimmerman, NWPO, Carson City, NV

R. L. Maudlin, MACTEC, Las Vegas, NV

N. J. Brogan, SAIC, Las Vegas, NV, 517/T-08

C. H. Prater, SAIC, Las Vegas, NV, 517/T-06

D. H. Appel, USGS, Denver, CO

cc w/o encls:

J. W. Gilray, NRC, Las Vegas, NV

D. D. Porter, SAIC, Golden, CO