

Department of Energy

Washington, DC 20585

QA: L

OCT 0 6 1997

R. W. Craig, Technical Project Officer for Yucca Mountain Site Characterization Project
U.S. Geological Survey
1261 Town Center Drive
Building 12, Room 1249, M/S 423
Las Vegas, NV 89134

EVALUATION OF RESPONSE TO DEFICIENCY REPORT (DR) USGS-97-D-008

The Office of Quality Assurance staff has evaluated the response to DR USGS-97-D-008. The response has been determined to be satisfactory. Verification of completion of the corrective action will be performed after the effective date provided. Any extension to this date must be requested in writing, with appropriate justification, prior to that date.

If you have any questions, please contact either James Blaylock at (702) 794-1420 or Ardell M. Whiteside at (303) 236-5050.

OQA:JB-0009

Donald G. Horton, Director Office of Quality Assurance

Enclosure: DR USGS-97-D-008

cc w/encl:

J. O. Thoma, NRC, Washington, DC

S. W. Zimmerman, NWPO, Carson City, NV

T. H. Chaney, USGS, Denver, CO

D. J. Sinks, OQA/USGS, Denver, CO

A. M. Whiteside, OQA/ÚSGS, Denver, CO

cc w/o encl:

W. L. Belke, NRC, Las Vegas, NV

D. G. Sult, OQA/QATSS, Las Vegas, NV

R. W. Clark, DOE/OQA, Las Vegas, NV

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OFFICE OF CIVILIAN

☐ Performance Report Deficiency Report

UN CIVAL RADIOACTIVE WASTE MANAGEMENT U.S. DEPARTMENT OF ENERGY WASHINGTON, D.C.		NO. <u>US G3- 97-D008</u> PAGE <u>1</u> OF <u>13</u> QA: L		
YMP- USGS- PERFORMANCE/D	EFICIENCY REPOF	₹T		
¹ Controlling Document:/HP-160, R2, M1-M2: Methods for Analysis of Samples for Gas Composition by Gas Chromatography.		² Related Report No.: N/A		
3 Responsible Organization: U.S. Geological Survey Enrironmental Science Team	⁴ Discussed With	: Gordon Rattray		
⁵ Requirement/Measurement Criteria:				
Para. 7.1 - States, "Specific items from this procedure to Field log book GSC lab book (AH. I of HP-160; format) Gas chromatograph log book Flow meter calibration log book Gas summary sheet (AH. 2 of HP-160) Water vapor summary sheet (AH. 3 of HP-160)	hat shall constitute a re	cord are:		
6 Description of Condition: Records generated by HP-160 as evidenced in data pack GS930108312271.004, GS940408312271.001, GS94950708312271.002 are not the same records as identification of the data, not the analyses, so therefore should be collection of the data, not the analyses, so therefore should be considered as a series of the data, not the analyses, so therefore should be considered as a series of the data, not the analyses, so therefore should be considered as a series of the data, not the analyses, so therefore should be considered as a series of the data, not the analyses, so therefore should be considered as a series of the data, not the analyses, so the series of the data analyses.	0408312271.006, GS fied in Section 7.1 of H es; the other records list	950708312271.001 and GS P-160, R2. HP-160 needs to ted in HP-160, R2 are used in the		
7 Initiator: 9 RISTZ Kellis Date 7/197	9 Is condition an isolat □ Yes XNo □ Unk	red occurrence?		
10 Recommended Action (not required for PR): 1. Modify YMP-USGS-HP-160 to accurately reflect which records are generated by implementation of the procedure. 2. Reference this deficiency on appropriate records packages that include data generated by implementation of HP-160. 3. Determine Impact on Data. 4. Investigate to determine if other procedures have a similar deficiency Afford 7/12/17				
11 QA Review: District QAR ARGELL WHITESIX Date 7-16-97	12 Response Due Date	: days from issuance		
13 Affected Organization QA Manager Issuance Approval (QAR for PR) Printed Name: DG, HOPTON Signature	: James Bluglock	Date 7/25/97		
²² Corrective Action Verified:	²³ Closure Approved b	y (N/A for PR):		
OAR Data	A O O A B B	Data		

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PERFORMANCE/DEFICIE	ENCY REPORT RESPONSE				
deficiency on TDIF's within appropriate records packages that	hat are generated by this procedure. Identify and reference this include data generated by the implementation of HP-160. And exages a statement referencing this deficiency and how the data				
¹⁵ Extent of Condition (not required for PR):					
The EA office will Investigate ten percent of the technical pro- Survey on the Yucca Mountain Project to determine if this typ the results of this investigation, appropriate corrective actions	e of deficiency is prevalent in other procedures. Based upon				
	·				
¹⁶ Root Cause Determination (not required for PR):	Required □ Yes □ No				
· ·					
¹⁷ Action to Preclude Recurrence (not required for PR):	Required □ Yes □ No -				
To be determined if needed based upon completion of Block 1	5 actions.				
· · · · · · · · · · · · · · · · · · ·					
	·				
•					
¹⁸ Corrective Action Completion Due Date:	¹⁹ Response by:				
Block 14 and 15 to be completed by 11/30/97	♯ Initial				
·	☐ Amended R.W. Craig, Chief YMPB Date 8/22/97 Phone(303)236-5050 x233				
²⁰ Response Accepted: SEE PAGE 3	²¹ Response Accepted (N/A for PR):				
OAR Quillistide Date Sept. 19,1997	DOQA 3 Blugfort 1 Date 10/6/97				
andri 20 - recrett	. REV.U//15/30				



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DEFICIENCY REPORT CONTINUATION PAGE

BLOCK 20 RESPONSE ACCEPTED [CONTINUED FROM PAGE 2]

The proposed corrective actions identified on page 2 were evaluated and determined to be acceptable based upon the following:

The proposed actions were discussed with USGS Earth Science Investigations Program (ESIP) and Engineering Assurance (EA) personnel.

ESIP personnel have initiated actions to update HP-160 R2, and will determine and annotate affected records as described in block 14 of the response by the end of November 1997.

EA personnel will complete the investigative actions described in block 15 to evaluate ten percent (10%) of "active" technical procedures to determine if conditions similar to the deficiency stated in block 6 are noted -- that is, do the technical procedures accurately identify the records being generated. If additional deficiencies are noted, specific actions will be taken to correct those procedures, determine impact on data, and annotate affected records.

Based upon the results from the investigative actions, the USGS will determine and identify: 1) the extent of the deficient condition(s), the impact on data, and the corrective actions for any deficient procedure(s) and associated record(s); 2) whether root cause determination is warranted; 3) preventive measures; and 4) a schedule for completing the actions. The results of the investigative actions and additional actions noted will be presented in a supplemental response to OQA by November 30, 1997.

QAR:

Ardell M. Whiteside

DATE

September 19, 1997

9-19-97

Exhibit AP-16.1Q2

REV.06/02/97