



Department of Energy
Washington, DC 20585

QA: L

OCT 06 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.

James Blaylock for
Donald G. Horton, Director
Office of Quality Assurance

OQA:JB-0009

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/USGS, 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

1/1

NH 33

102.7

WM-11

9710280187 971006
PDR WASTE PDR
WM-11

000014

Rec'd
miss/Pahl



ORIGINAL

OFFICE OF CIVILIAN
RADIOACTIVE WASTE MANAGEMENT
U.S. DEPARTMENT OF ENERGY
WASHINGTON, D.C.

Performance Report
 Deficiency Report

NO. USGS-97-0008
PAGE 1 OF 13
QA: L

7/16/97

gt

YMP-USGS- PERFORMANCE/DEFICIENCY REPORT

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
Environmental Science Team

⁴ Discussed With: Gordon Rattray

⁵ Requirement/Measurement Criteria:

Para. 7.1 - States, "Specific items from this procedure that shall constitute a record are:

- Field log book
- GC lab book (*Att. 1 of HP-160; format*)
- Gas chromatograph log book
- Flow meter calibration log book
- Gas summary sheet (*Att. 2 of HP-160*)
- Water vapor summary sheet (*Att. 3 of HP-160*)

*OK
7/16/97*

⁶ Description of Condition:

Records generated by HP-160 as evidenced in data package, "UZ-1 Data" GS930408312271.013, GS930108312271.004, GS940408312271.001, GS940408312271.006, GS950708312271.001 and GS 950708312271.002 are not the same records as identified in Section 7.1 of HP-160, R2. HP-160 needs to show the GC Lab book/Logbook as the record of analyses; the other records listed in HP-160, R2 are used in the collection of the data, not the analyses, so therefore should not be listed as records generated from this procedure.

⁷ Initiator: *Kristi Lewis*
Kristi L. Lewis

Date *7/7/97*

⁹ Is condition an isolated occurrence?
 Yes No Unknown; Must be Yes if PR

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.* *None*
7/22/97

¹¹ QA Review: *anne Pittsford*

QAR *ARDELL WHITESIDE* Date *7-16-97*

¹² Response Due Date:

20 working days from issuance

¹³ Affected Organization QA Manager Issuance Approval (QAR for PR)

Printed Name: *D.G. HORTON*

Signature: *James Blaylock Jr*

Date *7/25/97*

²² Corrective Action Verified:

QAR _____ Date _____

²³ Closure Approved by (N/A for PR):

AQQAM _____ Date _____

~~ENCLOSURE~~ 153

ENCLOSURE

OFFICE OF CIVILIAN
RADIOACTIVE WASTE MANAGEMENT
U.S. DEPARTMENT OF ENERGY
WASHINGTON, D.C.

ORIGINAL

PR/DR NO. USGS-97-D-008
PAGE 2 OF 3
QA:L

PERFORMANCE/DEFICIENCY REPORT RESPONSE

¹⁴Remedial Actions:

Modify YMP-USGS-HP-160 to accurately reflect the records that are generated by this procedure. Identify and reference this deficiency on TDIF's within appropriate records packages that include data generated by the implementation of HP-160. And add to the tables of contents of those appropriate records packages a statement referencing this deficiency and how the data were impacted.

¹⁵Extent of Condition (not required for PR):

The EA office will investigate ten percent of the technical procedures currently being implemented by the U.S. Geological Survey on the Yucca Mountain Project to determine if this type of deficiency is prevalent in other procedures. Based upon the results of this investigation, appropriate corrective actions will be outlined in a supplemental response.

¹⁶Root Cause Determination (not required for PR):

Required Yes No

To be determined if needed based upon completion of Block 15 actions.

¹⁷Action to Preclude Recurrence (not required for PR):

Required Yes No

To be determined if needed based upon completion of Block 15 actions.

¹⁸Corrective Action Completion Due Date:

Block 14 and 15 to be completed by 11/30/97

¹⁹ Response by:

Initial

Amended

R.W. Craig
R.W. Craig, Chief YMPB

Date 8/22/97 Phone(303)236-5050 x233

²⁰Response Accepted: SEE PAGE 3

QAR *Ann Whitely* Date Sept. 19, 1997

²¹ Response Accepted (N/A for PR):

DOQA *James Blaylock* Date 10/6/97

ORIGINAL

OFFICE OF CIVILIAN
RADIOACTIVE WASTE MANAGEMENT
U.S. DEPARTMENT OF ENERGY
WASHINGTON, D.C.

DR No. USGS-97-D-008

PAGE 3 OF 3

QA:L

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.



9-19-97

QAR: Ardell M. Whiteside

DATE:

September 19, 1997