



Department of Energy

Washington, DC 20585

NOV 07 2002

QA: QA

T. W. Doering
Bechtel SAIC Company, LLC
1180 Town Center Drive, M/S 423
Las Vegas, NV 89144

VERIFICATION OF CORRECTIVE ACTION AND CLOSURE OF DEFICIENCY REPORT (DR) BSC(O)-02-D-124 RESULTING FROM THE OFFICE OF QUALITY ASSURANCE (OQA) AUDIT BSC-ARC-02-09

The OQA staff has evaluated the corrective action of DR BSC(O)-02-D-124 and determined the results to be satisfactory. As a result, the DR is considered closed.

If you have any questions, please contact either James Blaylock at (702) 794-1420 or Christian M. Palay at (702) 794-1486.

R. Dennis Brown, Director
Office of Quality Assurance

OQA:JB-0248

Enclosure:
DR BSC(O)-02-D-124

cc w/encl:
N. K. Stablein, NRC, Rockville, MD
Robert Latta, NRC, Las Vegas, NV (2 cys)
S. W. Lynch, State of Nevada, Carson City, NV
L. W. Bradshaw, Nye County, Pahrump, NV
R. W. Andrews, BSC, Las Vegas, NV
D. T. Krishna, BSC, Las Vegas, NV
W. J. Glasser, NQS, Las Vegas, NV
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C. M. Palay, NQS, Las Vegas, NV
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U.S. DEPARTMENT OF ENERGY WASHINGTON, D.C

8 Deficiency Report
 Corrective Action Report
No BSC(0)-02-D-124.
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DEFICIENCY REPORT/CORRECTIVE ACTION REPORT

1. Controlling Document: (Document ID and Revision or Date)
AP-SIII.3Q, Revision 1, ICN 1

2. Related Report No.
BSC-ARC-02-09

3. Responsible Organization.
BSC Science & Engineering Testing

4. Discussed With
Norman Kramer, Asha Kalia

5 Requirement:
AP-SIII.3Q, Section 5 2.1 c) states " Data classified as final must be technically reviewed as provided in originating procedure or in accordance with AP-2.14Q".

6 Description of Condition
Contrary to the above requirement, there is no objective evidence of a technical review being performed for the Data Tracking Numbers (DTN) MO0201THERMGRT.000 & MO0201EBSTCRST.014, which are classified as final in the TDMS It should be noted that these DTNs represent "Procured Data".

Has work been stopped? Yes No

7 Initiator:
Christian M Palay *Chris Palay* 5-15-02

9 Does a stop work condition exist?
 Yes No N/A
If Yes, Check One A B C D

10 Recommended Actions:
None.

11. QA Review
Christian M Palay *Chris Palay* 5-15-02

12 Response Due Date.
10 Working days after issuance

13 QAM Issuance Approval.
Printed Name Ram B. Murthy Signature *Jams Blyford* Date 6/5/02

14 Corrective Actions Verified/Closure.
Christian Palay *Chris Palay* 11/01/02

15 QAM Closure Approval
Dejnis Brown *Jams Blyford* 11/7/02

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DEFICIENCY IDENTIFICATION AND REFERRAL

Date
06/05/02

Open DR/CAR:
BSC(O)-02-D-124


Description of Deficiency:

Contrary to the requirement cited in BSC(O)-02-D-124, the following qualified final Data Tracking Numbers (DTNs) were not technically reviewed, in accordance with AP-2.14Q. These are procured data.


- LL001104412241.019
- LL010109312241.021
- LL010305312241.022
- LL010305512241.024
- LL990707151021.075
- LL990901851021.084
- LL991202405924.091

How Identified:
The lack of AP-2.14Q reviews of these DTNs were originally identified during the extent of condition investigation for BSC-02-D-009.

Open DR/CAR QAR's Concurrence:

Christian Palay  6/11/02
 Printed Name Signature Date

Prepared by:

Andrew Burningham  6/5/02
 Printed Name Signature Date

Submittal Page 1 of 1
 2. Check if Amended
 3. Extended Processing
 No Yes (if yes, submit
 Extended Processing request.)

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1. DR/CAR No.: BSC(O)-02-
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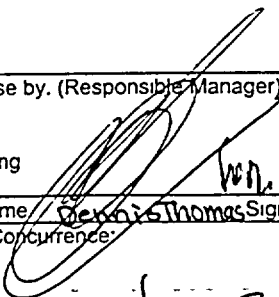
DEFICIENCY REPORT/CORRECTIVE ACTION REPORT INITIAL RESPONSE

4. Immediate Actions Necessary to Bring the Process Under Control: (If none, provide justification statement)
 The submittal of all data to TDMS and all supporting records packages to the RPC for the EBS Geoengineering Testing Department will be coordinated and controlled through a single person. This coordination will include data produced by Project vendors.
 Date when process will meet requirements: 05-23-02

5. Immediate Remedial Actions Completed:
 EBS Geoengineering Testing Department has initiated a technical review of all the known procured data sets in the EBS Geoengineering Testing Department identified during extent-of-condition investigation that had not received a technical review in accordance with AP-2.14Q or originating procedures, as required by AP-SIII.3Q.

6. Plan for Determining the Extent of Condition.
WITHIN THE PERFORMANCE ASSESSMENT PROJECT UNDERWAY
 A sample of data sets procured by other organizations will be reviewed to determine if the extent of condition goes beyond the EBS Geoengineering Testing Department. Sampling will be done in accordance with EPRI NP-7218 (Guideline for the Utilization of Sampling Plans for Commercial-Grade Item Acceptance)

7. Due Date Submittal of Completed Response:
7/26/2002

8. Response by. (Responsible Manager)
Tom Doering
 Printed Name: Tom Doering Signature:  Date: 6/20/2002
 905 BSC QA

9. QAR Evaluation: Accept Partially Accept Reject
Christian Palay Chris Palay 06-24-02
 Printed Name Signature Date

10. QAM Concurrence
RAM MURPHY Jane Blaylock 6/26/02
 Printed Name Signature Date

Submittal Page 1 of 2

2. Check if Amended
Check if also Initial Response

3. Extended Processing *Ant 9/12/02*
 No Yes (if yes, submit
Extended Processing request.)

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DEFICIENCY REPORT/CORRECTIVE ACTION REPORT COMPLETE RESPONSE

4 Extent of Condition: (Amended response will be required if all Extent of Condition Investigations are not complete and documented herein)

Based on interviews with several Performance Assessment (PA) personnel, it was determined that, since 6/30/99, PA has procured data from the following vendors: Anter Laboratones Inc., Mikron Instrument Company, Inc , and Bechtel Nevada (Anter, Mikron, and BN data submitted by EBS/Geoengeerning Testng); and Argonne National Laboratory (ANL), Pacific Northwest National Laboratory (PNNL), General Electric Corporate Research and Development Center (GE), Structural Integnty Associates (SIA), and University of Virginia (UVA) (ANL, PNNL, GE, SIA, and UVA data submitted by Lawrence Livermore National Laboratory [LLNL]). The 6/30/99 date was chosen as a cut-off date because, as part of the PVAR process, all data collected under procedures or processes developed prior to that date must go through a verification process in order to be used to support Principal Factors.

Continued on next page.

5. Impact: (Provide an impact statement relative to waste isolation and safety, and impact to other work, if any)

Technical reviews of the following four (4) data sets could not be found during the extent of condition investigation: MO0005EBSTRPBM.007, MO0005EBSSRPBM.008, MO0006EBSATPBM 009, and MO0109EBSAEQST.009. These are in the process of being completed. It is not expected that these reviews will result in an impact to the waste isolation and safety. The impact to other work is that these reviews must be performed at this time, which was not planned for, as opposed to having been performed during the original data preparation and submission period. If, during the completion of such corrective actions, it is determined that there is other impact, an amended complete response will be submitted.

Continued on next page.

6 Remedial Actions: (Document all actions necessary to address the results of the Extent of Condition)

Technical reviews will be performed and documented for those data sets for which no evidence of a technical review could be found. The data sets are as follows: MO0005EBSTRPBM 007, MO0005EBSSRPBM.008, MO0006EBSATPBM.009, and MO0109EBSAEQST.009 When submitted to the Records Processing Center, these reviews will be cross-referenced to this DR.

7. Root Cause (For a significant CAQ, attached results of formal root cause determination prepared in accordance with AP-16 4Q)
 Apparent Cause

Failure to follow procedure This was due to an apparent misunderstanding of the procedure by the individuals involved.

8 Action to Preclude Recurrence (Address those actions necessary to prevent the identified cause from recurring)

A meeting will be held with those individuals involved in this deficiency and the responsible manager to walk through the proper process for submitting data to the Technical Data Management System The meeting will be documented by signature and meeting notes.

9. Due Date for Completion of Corrective Action:

10/30/2002

10 Responsible Manager:

Tom Doering

Printed Name

Signature

Ant 9/19/2002
9/19/02
Date

12 QAM Concurrence

Zan MURPHY

Printed Name

James Bingham

Signature

9/26/02

Date

11. QAR Evaluation: Accept Partially Accept Reject

Re-evaluated for significance

Christian Palay

Printed Name

Chris Palay

Signature

9-19-02

Date

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CONDITION ADVERSE TO QUALITY CONTINUATION PAGE

Continued from block 4, Extent of Condition:

Sampling was initiated to determine the extent of condition. When circumstances required a more in-depth investigation of certain data reviews, a full investigation of the entire population of PA procured data sets was performed. The attached spreadsheet shows the tracking numbers of all data sets from the aforementioned vendors, submitted to the Technical Data Management System since 6/30/99, and an evaluation of each data review, as generated by the extent of condition investigation.

The extent of condition investigation revealed five (5) instances of non-compliance, in addition to the two (2) identified on the original Deficiency Report (DR) (as a side note, the two identified on the original DR were reclassified as unqualified as part of DR BSC(O)-02-D-123). Technical reviews of the following four (4) data sets could not be found during the extent of condition investigation: MO0005EBSTRPBM 007, MO0005EBSSRPBM 008, MO0006EBSATPBM.009, and MO0109EBSAEQST.009. It should be noted that one individual was responsible for all four of these data submittals. Technical reviews of the following one (1) data set was completed, but not in accordance with AP-2.14Q: LL010305512241.024. The individual responsible for this data submittal was different than the individual responsible for the others. This individual is no longer works for LLNL.

Continued from block 5, Impact.

Technical review of the following one (1) data set was completed, but not in accordance with AP-2.14Q or AP-2.14Q criteria LL010305512241.024. This data was reviewed using ANL procedures in effect at the time of the review, but there was no evidence that the review was of a technical nature. This data received an additional review at LLNL, and was reviewed using the following technical criteria: technical accuracy of the information; whether information was presented in sufficient detail (including software information) to retrace the investigation without recourse to the originator; whether any software used is suitable for the problem being solved; and whether any software used is used within the range of validation testing; and a final statement as to whether the information presented was in sufficient detail and technically accurate. Although the AP-2.14Q criteria was not specifically used, there is evidence that the accuracy, transparency, and reproducibility of the data were adequately reviewed, based on the criteria listed on the review record. Therefore, there is no impact to waste isolation and safety, or other work, as a result of this noncompliance.

DR BSC(O)-02-D-124 EXTENT OF CONDITION INVESTIGATION

PI	STATUS	DTN#	REVIEW DATE	IN COMPLIANCE?	IMPACT?	REVIEW DETAILS
BUCK-ANL	Q/V	LL010305312241.022	10/16/2000	YES	NO	Review was performed at ANL, in accordance with ANL procedures. Data received additional technical review by LLNL on 5/14/01. Did not use AP-2.14Q criteria, but did review technical accuracy and traceability.
	Superceded	LL010305412241.023	N/A	N/A	N/A	N/A
	Q/V	LL991109951021.096	12/22/1999	YES	NO	Review met requirements in effect at the time of the review (not required to address AP-2.14Q criteria at the time)
	Q/V	LL991110051021.097	12/22/1999	YES	NO	Review met requirements in effect at the time of the review (not required to address AP-2.14Q criteria at the time)
	unqualified	LL991110151021.098	N/A	N/A	N/A	N/A
	Q/V	LL991110251021.099	12/22/1999	YES	NO	Review met requirements in effect at the time of the review (not required to address AP-2.14Q criteria at the time)
	Q/V	LL991110351021.100	12/22/1999	YES	NO	Review met requirements in effect at the time of the review (not required to address AP-2.14Q criteria at the time)
Q/V	LL991110851021.105	12/22/1999	YES	NO	Review met requirements in effect at the time of the review (not required to address AP-2.14Q criteria at the time)	
GRAY-PNNL	unqualified	LL000104351021.106	N/A	N/A	N/A	N/A
	Pre-PVAR	LL000107951021.107	N/A	N/A	N/A	N/A
	Pre-PVAR	LL000112351021.108	N/A	N/A	N/A	N/A
	Pre-PVAR	LL990707151021.075	N/A	N/A	N/A	N/A
	Pre-PVAR	LL990806651021.078	N/A	N/A	N/A	N/A
	Pre-PVAR	LL990901851021.084	N/A	N/A	N/A	N/A
FORTNER-ANL	Q/V	LL000205551021.118	08/25/1999	YES	NO	Review done at ANL (ANL is a qualified vendor and has their own procedures for reviews)
	Q/V	LL010305512241.024	01/31/1997	NO	NO	A review was performed at ANL in accordance with ANL procedures but there was no evidence of a technical review. Data received an additional technical review by LLNL on 5/14/01. Did not use AP-2.14Q criteria at the time. Site not documented as the guiding document for the review of the review technical accuracy and traceability.
	Q/V	LL991110451021.101	12/22/1999	YES	NO	Review met requirements in effect at the time of the review (not required to address AP-2.14Q criteria at the time)
	Q/V	LL991110651021.103	12/22/1999	YES	NO	Review met requirements in effect at the time of the review (not required to address AP-2.14Q criteria at the time)
	Q/V	LL991110751021.104	12/20/1999	YES	NO	Review met requirements in effect at the time of the review (not required to address AP-2.14Q criteria at the time)
MERTZ-ANL						

DR BSC(O)-02-D-124 EXTENT OF CONDITION INVESTIGATION

PI	STATUS	DTN#	REVIEW DATE	IN COMPLIANCE?	IMPACT?	REVIEW DETAILS
	Q/V	LL000905312241.018	12/22/1999	YES	NO	Review met requirements in effect at the time of the review (not required to address AP-2.14Q criteria at the time)
	Q/V	LL991109751021.094	12/22/1999	YES	NO	Review met requirements in effect at the time of the review (not required to address AP-2.14Q criteria at the time)
	Q/V	LL991109851021.095	12/22/1999	YES	NO	Review met requirements in effect at the time of the review (not required to address AP-2.14Q criteria at the time)
FINN-ANL						
	unqualified	LL990706951021.074	N/A	N/A	N/A	N/A
	Pre-PVAR		N/A	N/A	N/A	N/A
	unqualified	LL990806851021.080	N/A	N/A	N/A	N/A
	Q/V	LL991001251021.090	08/20/1999	YES	NO	Review done at ANL (ANL is a qualified vendor and has their own procedures for reviews)
	Pre-PVAR	LL991001351021.091	N/A	N/A	N/A	N/A
FINCH-ANL						
	Superseded	LL000404551021.134	N/A	N/A	N/A	N/A
	Pre-PVAR	LL001104412241.019	N/A	N/A	N/A	N/A
	unqualified	LL001104512241.020	N/A	N/A	N/A	N/A
	Q/V	LL010109312241.021	05/28/2002	YES	NO	Review was performed at ANL, in accordance with ANL procedures. Data received additional technical review by LLNL on 5/14/01. Did not use AP-2.14Q criteria, but did review technical accuracy and traceability.
	Pre-PVAR	LL990407651021.072	N/A	N/A	N/A	N/A
BATES-ANL						
	Pre-PVAR	LL990807051021.082	N/A	N/A	N/A	N/A
	Q/V	LL991110551021.102	12/21/1999	YES	NO	Review met requirements in effect at the time of the review (not required to address AP-2.14Q criteria at the time)
	Pre-PVAR	LLLLYMP9108066.000	N/A	N/A	N/A	N/A
HANSON-PNNL						
	Pre-PVAR	LL000314551021.131	N/A	N/A	N/A	N/A
	Pre-PVAR	LL000314651021.132	N/A	N/A	N/A	N/A
	Q/V	LL000402951021.133	01/19/2001	YES	N/A	Reviewed at PNNL using PNNL notebook procedures (PNNL is a qualified vendor and has their own procedures)
	Pre-PVAR	LL990909651021.089	N/A	N/A	N/A	N/A
	Pre-PVAR	LL991011551021.093	N/A	N/A	N/A	N/A
EBERT-ANL						
	unqualified	LL000112604241.046	N/A	N/A	N/A	N/A
	unqualified	LL000112751021.111	N/A	N/A	N/A	N/A
	unqualified	LL000112851021.112	N/A	N/A	N/A	N/A
	Pre-PVAR	LL000112951021.113	N/A	N/A	N/A	N/A
	Q/V	LL000121951021.115	01/26/2000	YES	NO	Review done at ANL (ANL is a qualified vendor and has their own procedures for reviews).

DR BSC(O)-02-D-124 EXTENT OF CONDITION INVESTIGATION

PI	STATUS	DTN#	REVIEW DATE	IN COMPLIANCE?	IMPACT?	REVIEW DETAILS
LU-LLNL (SIA)	Q/V	LL000122051021.116	01/26/2000	YES	NO	Review done at ANL (ANL is a qualified vendor and has their own procedures for reviews).
	Q/V	LL000123351021.117	04/10/2000	YES	NO	Review done at ANL (ANL is a qualified vendor and has their own procedures for reviews).
	Q/V	LL000210551021.120	02/25/2000	YES	NO	Technical review completed using LLNL's YMP "Technical Reviewer's Comment Form". This did not use AP-2.14 criteria (not required at the time), but the technical criteria used was identified.
	unqualified	LL000210651021.121	N/A	N/A	N/A	N/A
	unqualified	LL001200112242.018	N/A	N/A	N/A	N/A
	Pre-PVAR	LL010801712241.025	N/A	N/A	N/A	N/A
	Pre-PVAR	LL991204105924.095	N/A	N/A	N/A	N/A
	Q-PVAR	LL000810312251.009	09/22/2000	YES	NO	Technical review completed using LLNL's YMP "Technical Reviewer's Comment Form". This did not use AP-2.14 criteria (not required at the time), but the technical criteria used was used and identified.
	Q/V	LL000810412251.010	09/25/2000	YES	NO	Technical review completed using LLNL's YMP "Technical Reviewer's Comment Form". This did not use AP-2.14 criteria (not required at the time), but the technical criteria used was used and identified.
	Pre-PVAR	LL991202405924.091	N/A	N/A	N/A	N/A
unqualified	LL991209505924.102	N/A	N/A	N/A	N/A	
THUMMULA-BN						
Q-PVAR MO0004EBSA12PM.004 None NO NO Technical review was not performed						
Q-PVAR MO0004EBS12PM.004 None NO NO Technical review was not performed						
Q-PVAR MO0004EBS12PM.004 None NO NO Technical review was not performed						
MIKRON	Q-PVAR	MO0204EBSPYMPG 017	03/21/2002	YES	NO	Reviewed using AP-2.14Q
Q-PVAR MO0109EBSA12PM.004 None NO NO Technical review was not performed						
ANTER	Q-PVAR	MO0109EBSTCQST.011	05/23/2002	YES	NO	Reviewed using AP-2.14Q
	unqualified	MO0201EBSTCRST.014	N/A	N/A	N/A	Reclassified as preliminary unqualified as part of DR-123
	unqualified	MO0201THERMGRT.000	N/A	N/A	N/A	Reclassified as preliminary unqualified as part of DR-123

DR BSC(O)-02-D-124 EXTENT OF CONDITION INVESTIGATION

PI	STATUS	DTN#	REVIEW DATE	IN COMPLIANCE?	IMPACT?	REVIEW DETAILS
	Legend:					
	Q/V*	23	TDMS shows that this is a qualified DTN and that a verification has been completed.			
	Pre-PVAR	19	Because this data was collected under procedures and/or processes developed prior to 6/30/99, the TDMS shows that this DTN cannot be used towards principal factors without a verification and/or qualification, which has not yet been done.			
	Unqualified	13	TDMS shows that this is an unqualified DTN			
	Q-PVAR*	7	Developed/Acquired under Q procedures			
	Superceded	2	Superceded by another DTN			
	Total DTNs	64				
*indicates that these DTNs are included in the extent of condition investigation						
		30	ded in extent of condition			
			Out of Compliance			
			In Compliance	25		
			Total	30		
			w/Impact	0		

060
9/20/02

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CONDITION ADVERSE TO QUALITY CONTINUATION PAGE

Evaluation of Complete Response for Deficiency Report BSC(O)-02-D-124

The Quality Assurance Representative (QAR) has reviewed the complete response signed by the Responsible Manager on 9/9/02. The QAR recommends acceptance with the following comment:

It is understood that there is no further impact at this time to downstream technical products (e.g., Reports, data, etc.). It is also understood that the two DTNs (MO0201THERMGRT 00 & MO0201EBSTCRST 014) cited in the initiation of the DR were rendered unqualified as a result of DR BSC(O)-02-D-123. However, it should be noted that this DR, if it stood alone (i.e., BSC(O)-02-D-123 did not exist), would be sufficient grounds to reclassify the aforementioned DTNs as unqualified.

Christian Palay
QAR Printed Name



QAR Signature

September 19, 2002
Date

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U.S. DEPARTMENT OF ENERGY
WASHINGTON, D.C.

DR/CAR/QO
 SWO

NO BSC(O)-02-D-124

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CONDITION ADVERSE TO QUALITY CONTINUATION PAGE

Verification of Corrective Actions for Deficiency Report (DR) BSC(O)-02-D-124

The Quality Assurance Representative (QAR) performed a verification of the corrective action commitments documented in both the initial response and the complete response. The initial response was signed by the Responsible Manager on 6/20/02, and the complete response was signed by the Responsible Manager on 09/09/02. The following are the results of the verification.

Immediate Actions Necessary to Bring the Process Under Control:

The initial response committed the Engineered Barrier System (EBS) Geoengineering Testing Department to designate a single point of contact to coordinate and control the submittal of the department's data to the Technical Data Management System (TDMS). The department manager announced the department's single TDMS submittal point of contact via an electronic message to the EBS Geoengineering Testing Department Staff. This immediate action was verified via a review of a hard copy of the electronic mail by the QAR. The QAR confirmed that the message was sent to the entire department along with key staff who had previously worked under the Science and Engineering Testing Department. It should be noted that the Science and Engineering Testing Department was reorganized into smaller separate departments. This action is verified as satisfactory.

Remedial Actions

The complete response identified the following Data Tracking Numbers (DTNs) requiring remedial actions:

1. MO0005EBSTRPBM.007
2. MO0005EBSSRPBM 008
3. MO0006EBSATPBM.009
4. MO0109EBSAEQST.009

The remedial actions required a technical review to be performed on these four DTNs. This technical review was governed by AP-2.14Q, *Review of Technical Products and Data*.

The QAR has verified the review records and comments sheets for the four identified DTNs and has determined that the remedial actions are satisfactory.

Action to Preclude Recurrence:

A meeting was to be held with those individuals involved in this deficiency and the Responsible Manager to walk through the proper process for submitting data to the TDMS. The QAR has reviewed the agenda that was signed by the relevant staff and the Responsible Manager. The subject matter for the meeting and the attendance is determined to be adequate. This action is verified as satisfactory.

Based on the above evaluation, the QAR recommends closure of DR BSC(O)-02-D-124.

Christian Palay
QAR Printed Name

Chris Palay
QAR Signature

11/01/02
Date