



QA: QA

Larry D. Croft, Manager  
ES&H – Information Analysis & Management  
Bechtel SAIC Company, LLC (BSC)  
1180 Town Center Drive  
Las Vegas, NV 89144

VERIFICATION OF CORRECTIVE ACTION AND CLOSURE OF DEFICIENCY REPORT  
(DR) BSC(B)-02-D-106 RESULTING FROM INTERNAL REVIEW OF METEOROLOGICAL  
DATA

BSC Quality Assurance has verified implementation of corrective action for DR  
BSC(B)-02-D-106 and determined the results to be satisfactory. As a result, the DR has been  
closed.

If you have any questions, please contact either James E. Clark (702) 295-1629 or  
Richard E. Powe at (702) 295-2725.

A handwritten signature in black ink, appearing to read 'D. T. Krisha'.

Donald T. Krisha, Manager  
Quality Assurance

5/31/02  
Date Signed

JEC:bw-0530022821

Enclosure:  
DR BSC(B)-02-D-106

A handwritten signature in black ink, appearing to read 'NMSS02'.

May 31, 2002

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cc w/encl:

R. W. Andrews, BSC, Las Vegas, NV  
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B. L. Wilson, BSC, Las Vegas, NV

cc w/encl:

C. T. Bastian, BSC, Las Vegas, NV  
J. E. Clark, BSC, Las Vegas, NV  
P. M. Fransioli, BSC, Las Vegas, NV  
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D. P. Spence, BSC, Las Vegas, NV  
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K. M. Wolverton, BSC, Las Vegas, NV

NM5507  
WM 11

OFFICE OF CIVILIAN  
RADIOACTIVE WASTE MANAGEMENT  
U.S. DEPARTMENT OF ENERGY  
WASHINGTON, D.C.8. ☒ DEFICIENCY REPORT  
☐ CORRECTIVE ACTION  
REPORT  
NO. BSC(B)-02-D-106  
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## DEFICIENCY REPORT/CORRECTIVE ACTION REPORT

1. Controlling Document: (Document ID and Revision or Date)

LP-MM-003Q-M&amp;O, Revision 0, ICN 0

2. Related Report No.:

N/A

3. Responsible Organization:

ES&amp;H-Information Analysis &amp; Management

4. Discussed With:

K. Wolverton, G. Jones &amp; T. Moran and Larry Croft

5. Requirement:

(1) LP-MM-003Q, Section 5.2, subsection a) 1) requires Meteorological Sites 1, 2, 4 and 9 to have routine site checks at once every seven days.

(2) LP-MM-003Q, Section 5.5.2 and 5.5.4 requires preventive maintenance checks of tipping-bucket precipitation gauges and pyranometers at Meteorological Sites 1, 2, 4 and 9 at least once each week.

(3) LP-MM-003Q, Section 5.3 requires the collection of data from active Meteorological Sites within five working days after the first day of the calendar month.

6. Description of Condition:

Due to the unexpected stand-down at the site, the following deviations from the procedure occurred:

(1) The last checks before the stand-down were performed on March 25, 2002, so they were due by April 1, 2002. The sites went at least 15 days without checks. (2) Preventive maintenance checks were on the same schedule as the routine site checks mentioned above. (3) The collection of data was due by April 8th, procedurally, but due to the stand-down could not be collected until April 10, 2002.

ACTION TAKEN: The Site Technician and Field Coordinator were released from the site stand-down, April 10, 2002, and they proceeded to perform routine site checks, preventive maintenance checks and data download this date. The checks indicated that the equipment operated correctly throughout the period in question, and there were no precipitation events that were missed. Thus, there were no meteorological data lost and therefore no impact due to the missed checks.

Has work been stopped? ☐ Yes ☒ No

7. Initiator:

Paul M. Fransioli  
Printed Name

Signature

Date

9. Does a stop work condition exist?

☐ Yes ☒ No ☐ N/A

If Yes, Check One:

☐ A☐ B☐ C☐ D

10. Recommended Actions:

Flag the affected data at Sites 1, 2, 4 and 9 collected during the period of non-compliance, annotate as being associated with this DR. As this appears to be an isolated case due to unusual circumstances, no further remedial action is required.

11. QA Review:

JAMES E. CLARK  
Printed Name

Signature

Date

12. Response Due Date:

10 Working Days after Issuance

13. QAM Issuance Approval:

Donald T. Krisha  
Printed Name

Ram Murthy

Signature

Date

14. Corrective Actions Verified/Closure

James E. Clark  
QAR Printed Name

Signature

Date

15. QAM Closure Approval:

Donald T. Krisha  
Printed Name

Signature

Date

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2. Check if Amended ☐  
Check if also Initial Response ☒

3. Extended Processing

☒ No ☐ Yes (If yes, submit  
Extended Processing request)

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

1. DR/CAR NO. BSC(B)-02-D-106  
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**ORIGINAL**  
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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)

Extent of condition includes all 12 Met Monitoring locations: Sites 1 thru 9, and the 400 series (401, 405, and 415). Technicians and management were aware that activities were not being performed per the LP-MM-003Q schedule, but access to the monitoring locations was prohibited due to the site stand-down.

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

Even if data were lost or the equipment was discovered in an inoperative condition, there would have been no impact relative to waste isolation or safety. Equipment checks and data downloads revealed continued operability of the monitoring devices and no loss of data; therefore, there was no impact to other work. Also see impact statement in Block 6 "Description of Condition" of this DR.

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

Routine site checks, preventive maintenance checks, and the data downloads at the 12 sites were performed immediately after these activities were released from stand-down status on April 10, 2002. Since access to the locations is no longer restricted due to the stand-down, the activities prescribed by LP-MM-003Q are back on schedule.

Affected data for the period of procedural noncompliance have been flagged on the 12 site checklists to refer to this DR. No further remedial action is required.

7. ☐ Root Cause (For a significant CAQ, attach results of formal root cause determination prepared in accordance with AP-16.4Q)  
☒ Apparent Cause

The apparent cause is the lack of access to the monitoring sites due to the site stand-down.

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

Because the site stand-down was a management response to an unusual situation, no site monitoring procedures or practices can be adjusted to anticipate or prevent a recurrence.

9. Due Date for Completion of Corrective Action:

May 28, 2002

10. Responsible Manager:

*WU*

*LARRY D. CROFT* *R. Kunkle* *5/24/02*  
Printed Name Signature Date

11. QAR Evaluation: ☒ Accept ☐ Partially Accept ☐ Reject

*JAMES E. CLARK* *James E. Clark* *5/24/02*  
Printed Name Signature Date

12. QAM Concurrence:

*DONALD T. KRISHN*

*Robert P. Kule* *5-28-02*  
Printed Name Signature Date

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**CONDITION ADVERSE TO QUALITY CONTINUATION PAGE**

**Corrective Actions Verification/Closure:**

(1) Reviewed checklists for Met Monitoring sites 1 thru 9, and the 400 series (sites 401, 405, and 415) to determine if the activities prescribed by procedure LP-MM-003Q were performed at all 12 sites. The site checks, preventive maintenance checks and data downloads were performed and documented on all 12 sites as specified by the procedure; activities were dated 4/10/02.

(2) Reviewed notations on checklists to determine if the data were flagged to refer to this DR as stated for the remedial action. Found annotations on all 12 checklists as follows: "Time gaps in site visits addressed in DR BSC(B)-02-D-106; no effect on data."

Verification of remedial/corrective action is satisfactory. James E. Clark, QAR

*James E. Clark 5/29/02*