QA: QA



Mark T. Peters, Manager Science & Engineering Testing Bechtel SAIC Company, LLC 1180 Town Center Drive Las Vegas, NV 89144

VERIFICATION OF CORRECTIVE ACTION AND CLOSURE OF DEFICIENCY REPORT (DR) BSC(V)-02-D-014 RESULTING FROM THE BECHTEL SAIC COMPANY, LLC (BSC) QUALITY ASSURANCE (QA) AUDIT BSC-SA-01-032 OF MIDI LABS, INC.

BSC Quality Assurance has verified implementation of corrective action for DR BSC(V)-02-D-014 and determined the results to be satisfactory. As a result, the DR has been closed.

If you have any questions, please contact either Stephen D. Harris at (501) 495-2214 or Daniel A. Klimas at (702) 295-2665.

D.T.Kisha

Donald T. Krisha, Manager Quality Assurance

SDH:ml-0221021570

Enclosure: DR: BSC(V)-02-D-014

2/22/02

Date Signed

Junis, C'/ War-st

February 22, 2002 Page 2

cc:w/encl:

L. H. Barrett, DOE/HQ (RW-2) FORS L. W. Bradshaw, Nye County, Pahrump, NV J. R. Dyer, DOE/YMSCO, Las Vegas, NV W. J. Glasser, NQS, Las Vegas, NV S. H. Horton, BSC, Las Vegas, NV D. A. Klimas, BSC, Las Vegas, NV B. R. Kornegay, BSC, Las Vegas, NV D. T. Krisha, BSC, Las Vegas, NV Robert Latta, NRC, Las Vegas, NV S. W. Lynch, State of Nevada, Carson City, NV Ram Murthy, DOE/OQA, Las Vegas, NV D. G. Opielowski, NQS, Las Vegas, NV J. M. Replogle, DOE/YMSCO, Las Vegas, NV N. K. Stablein, NRC, Rockville, MD D. D. von der Linden, BSC, Las Vegas, NV Engelbrecht von Tiesenhausen, Clark County, Las Vegas, NV

cc: w/encl:

K. O. Gilkerson, BSC, Las Vegas, NV S. D. Harris, BSC, LBNL N. E. Kramer, BSC, Las Vegas, NV Roxanna VanDillen, BSC, Las Vegas, NV

| OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT U.S. DEPARTMENT OF ENERGY WASHINGTON, D.C. | | | | CORRECTIVE ACTION REPORT NO. BSC(V)-02-D-014 PAGE 1 OF 3 |
|--|--|---|---|--|
| | | | | QA: KGH |
| DEFICI | ENCY/CORRECTIVE | ACTION REP | ORT | DEC 10/31/01 |
| 1. Controlling Document: | | / | 2. Related F | Report No.: |
| - | | | | |
| OSP 0620, Equipment Calibration and | Maintenance, Revision | A. 4. Discussed Wi | BSC-SA-0 | 1-032 |
| 3. Responsible Organization: | | | | |
| BSC S&ET/MIDI Laboratories, Inc. 5. Requirement: | | Bill Stimson/MI | DI Labs, Inc | ./Mark Peters-BSC |
| QSP 0620, section 3.0, 1. New Equipn equipment works as intended and cert Installation Qualification (IQ), Operatio | lified as conforming to a | specified accura | icy. validati | on or equipment requires |
| 6. Description of Condition: An example document was produced Biosystems DNA Sequences - Model is requirement, this document did not de QSP 0620, section 3.0, part 1. There was another document that sho readily obvious that this document cov | 377, Serial Numbers 960 scribe the operational qu wed operational qualific | U31350, 9607174 ualification as inc ation for some o ers that were des 9. Does a stop v | ther lab equiscribed in the | ipment, however, it was not |
| And CK FUNDIA | | 🗌 Yes 🛛 | No | |
| | Date 10/16/01 | _ | | |
| S. D. Harris 10. Recommended Actions: | Date 10/15/01 | If Yes, Check | One: 🗌 A | □в □с □р |
| Recommended Actions: These documents of tested lab equinto a document that contains tracincluded. Retrain personnel to procedure reconstruction Retrain With Arrows | quipment (installation, op ceability to the equipmer equirements. | If Yes, Check berational and pent tested and has | erformance) all necessa | need to be brought together ary requirements of QSP 0620 |
| Recommended Actions: These documents of tested lab equinto a document that contains tractincluded. Retrain personnel to procedure recommendation Retrain Personnel to procedure recommendation Retrain A: Klimas Date | quipment (installation, or ceability to the equipmer equirements. | If Yes, Check berational and pent tested and has | erformance) all necessa | need to be brought together ary requirements of QSP 0620 |
| Recommended Actions: These documents of tested lab equinto a document that contains tracincluded. Retrain personnel to procedure reconstruction Retrain With Arrows | quipment (installation, op ceability to the equipmer equirements. | If Yes, Check berational and pent tested and has 12. Response I 20. 20. | erformance) all necessa | need to be brought together ary requirements of QSP 0620 |
| Recommended Actions: These documents of tested lab equinto a document that contains trackincluded. Retrain personnel to procedure recommended. | quipment (installation, or ceability to the equipmer equirements. te 10/18/01 | If Yes, Check berational and pent tested and has 12. Response I 20. 20. | erformance) all necessa Due Date: ays From Iss | need to be brought together ary requirements of QSP 0620 suance |
| Recommended Actions: These documents of tested lab equints a document that contains tracking included. Retrain personnel to procedure reconstruction of the procedure reconstruction of | quipment (installation, or ceability to the equipmer equirements. | If Yes, Check berational and pent tested and has 12. Response D 20 20 20 7 | erformance) all necessa Due Date: ays From Iss | need to be brought together ary requirements of QSP 0620 suance |

| TYPE RESPONSE | RADIOACTIVE WAS U.S. DEPARTME | F CIVILIAN STE MANAGEMENT ENT OF ENERGY STON, D.C. | DR/CAR NO. BSC(V)-02-D-014 PAGE 2 OF 3 QA: QA |
|---|---|--|--|
| | | | |
| 14a. Immediate Actions: | DEFICIENCY/CORRECTIVI | E ACTION REPORT (RESPO | |
| | | | |
| N/A | | | |
| | | | |
| Compliance Date: | | | |
| 14. Remedial Actions: | ······································ | | |
| MIDI Labs will assembl reference to QSP 0620 | e all IQ/OQ/PQ documentation an requirements. | nd data into a validation binder fo | or easier access and easier |
| part of the MicroSeq m meet the process valida | n installation and performance qu icrobial identification process vali ation requirements, the IQ/OQ/PC | dation. Although all the necessa format was not followed as cur | ry steps were performed to rently required in QSP 0620. |
| a result of this deficient | ality-affecting work performed to d condition. | | |
| 16. Cause: (Attach resu | Its of root cause determination prepa | ared in accordance with AP-16.4Q for | or a significant deficiency.) |
| QSP 0620 was not in p | lace in 1999. | | |
| | | | |
| 17. Action to Preclude Re | ecurrence: | | |
| 1. Appropriate pers | sonnel will be trained to the requin I Lab's training records system. | rements of QSP 0620. The train | ing will be documented and |
| 2. When the seque | encers are re-qualified in 2002, th | e IQ/OQ/PQ format will be imple | mented. |
| | A | Chn N. WILLIAMS 11/30/01 | |
| 18. Due Date: Novembe | | 19. Response by: Mark Peters (F | Rovie VanDillen - Resp. Ind) |
| | | I A ADA | Cm for RYD 11/29/01 |
| For submittal of co | mplete response | Mark Hete 11/2 | 9/01 for RYD 11/29/01 30 |
| | mplete response corrective action | Mark Hills 11/2 Date: November 29, 200 21. Concurrence: | 9/01 for RYD 11/29/01 9/01 for Att 417 Phone: 5-3644 55 |
| For completion of a | mplete response corrective action | | Opin for RYD 11/29/01 20 9/01 GW Atty 55. Phone: 5-3644 145 Date 12/03/01 |

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

XI DR/CAR Stop Work Order

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DEFICIENCY/CORRECTIVE ACTION REPORT/STOP WORK ORDER CONTINUATION PAGE

Verification of Corrective Action:

The recommended actions included: "These documents of tested lab equipment (installation, operational and performance) need to be brought together into a document that contains traceability to the equipment tested and has all necessary requirements of QSP-0620 included."

The example document evaluated during the supplier audit, "Installation and Performance Qualifications: Applied Biosystems DNA Sequences - Model 377, Serial Numbers 96031350, 96071742, 94120142", has been submitted to BSC with a set of documents that support these DNA sequences. Under QSP-0620, Equipment Qualification. Calibration and Maintenance, Revision C. Section 3a. Qualification, the following is required to be included for operational qualification, which was the deficient condition cited in block 6: "The Operational Qualification (OQ) tests that key functions of the instrument, routinely used in the laboratory, will meet equipment specifications. The OQ can include a series of functional tests to insure that the equipment is operating within the limits of a pre-determined set of expected results or criteria."

Within the submitted package of documentation is included a validation protocol that includes acceptance criteria for tests performed. There are test examples included that show results within acceptable limits and a validation summary that attests to following appropriate protocol and validation to the acceptance criteria.

Based on the above information, the documentation submitted meets the requirements of QSP-062 for operational qualification and all documentation has been collected in one package.

Training to QSP-0620. Equipment Qualification. Calibration and Maintenance, for all applicable MIDI Lab, Inc. personnel was completed on 11/29/2001.

These corrective actions are acceptable for closure of this DR.

Richard L. Hand

Date Signed

Exhibit AP-16.1Q.2