



QA: QA

Thomas W. Doering
Performance Assessment
Bechtel SAIC Company, LLC
1180 Town Center Drive
Las Vegas, NV 89144


ISSUANCE OF DEFICIENCY REPORTS (DR) BSC(V)-02-D-115, -116, AND -117
RESULTING FROM THE BECHTEL SAIC COMPANY, LLC (BSC) QUALITY
ASSURANCE (QA) AUDIT BSC-SA-02-024 OF MIKRON INSTRUMENT COMPANY, INC.

Enclosed are the subject DRs generated as a result of BSC Audit BSC-SA-02-024 for conditions adverse to quality in Mikron Instrument Company, Inc.'s failure to fully meet the BSC procurement requirements regarding implementation of their QA Program. The unacceptable QA elements are Control of Purchased Items and Services, Control of Measuring and Test Equipment, and Software.

The responsible individual for these DRs should acknowledge receipt by e-mail response to Richard L. Maudlin.

Please provide the original copy of the response within 20 working days from the date of this correspondence to Richard L. Maudlin, Bechtel SAIC Company, LLC, 1180 Town Center Drive, Las Vegas, Nevada 89144, with a copy to Deborah G. Opielowski, Navarro Quality Services, P.O. Box 364629, YMSCO, Mail Stop 455, North Las Vegas, Nevada 89036.

If you have any questions, please contact either Richard L. Maudlin at (702) 295-2961 or Daniel A. Klimas (702) 295-2665.


Donald T. Krisha, Manager
Quality Assurance

5/15/02
Date Signed

RLM:bw-0515022646

Enclosure:
DRs BSC(V)-02-D-115, -116, & -117

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Wm-11*

May 15, 2002

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cc w/encl:

L. H. Barrett, DOE/HQ (RW-2) FORS
L. W. Bradshaw, Nye County, Pahrump, NV
Margaret Chu, DOE/HQ (RW-1) FORS
J. R. Dyer, DOE/YMSCO, Las Vegas, NV
W. J. Glasser, NQS, Las Vegas, NV
Birdie Hamilton-Ray, DOE/YMSCO, Las Vegas, NV
C. E. Hampton, DOE/YMSCO, Las Vegas, NV
R. W. Henderson, BSC, Las Vegas, NV
D. G. Horton, DOE/YMSCO, Las Vegas, NV
D. A. Klimas, BSC, Las Vegas, NV
D. T. Krishna, BSC, Las Vegas, NV
Robert Latta, NRC, Las Vegas, NV
S. W. Lynch, State of Nevada, Carson City, NV
S. P. Mellington, DOE/YMSCO, Las Vegas, NV
Ram Murthy, DOE/OQA, Las Vegas, NV
D. G. Opielowski, NQS, Las Vegas, NV
R. E. Powe, BSC, Las Vegas, NV
J. M. Replogle, DOE/YMSCO, Las Vegas, NV
N. K. Stablein, NRC, Rockville, MD
D. D. vonderLinden, BSC, Las Vegas, NV
Engelbrecht von Tiesenhausen, Clark County, Las Vegas, NV
T. J. Wall, BSC, Las Vegas, NV
B. L. Wilson, BSC, Las Vegas, NV

cc w/encl:

R. W. Andrews, BSC, Las Vegas, NV
William Fullam, Mikron Instrument Company, Inc., Oakland, NJ
H. N. Kalia, BSC/LANL, Las Vegas, NV
Norman Kramer, BSC, Las Vegas, NV
R. L. Maudlin, BSC, Las Vegas, NV
L. W. McGrath, BSC, Las Vegas, NV
Roxanna VanDillen, BSC, Las Vegas, NV

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

8. DEFICIENCY REPORT
 CORRECTIVE ACTION REPORT
NO. BSC(V)-02-D-117
PAGE 1 OF
QA: QA

DEFICIENCY REPORT/CORRECTIVE ACTION REPORT

1. Controlling Document: (Document ID and Revision or Date)
BSC Purchase Orders 24540-160-PO-00178, Scope of Work, Rev. 00, dated 03/12/01
and 24540-160-PO-01644, Scope of Work, Rev. 00, dated 08/31/01

2. Related Report No.:
BSC-SA-02-024


3. Responsible Organization:
BSC/ Mikron Instrument Company, Inc.

4. Discussed With:
K. Irani, M. MacBurney (Mikron), and
N. Kramer, R. VanDillen (BSC)

5. Requirement:
BSC Purchase Orders 24540-160-PO-00178 and -01644, Scope of Work, Section IV, Subsection titled "Software" states, in part:
"....Software changes, such as changes which impact function and/or resultant output, shall be tested to verify that the software continues to produce correct results. Where testing of changes is not required, justification shall be documented."


6. Description of Condition:
Contrary to the above, Mikron revised the software named TRW_test_data.xls twice, renaming the software each time, (Bechtel_test_data_corr.xls and Bechtel_test_data_corrjan02.xls), however, no documentation could be provided to reflect the testing of the changed/revised software or documentation to support the justification that testing of the changes was not required.

Has work been stopped? Yes No

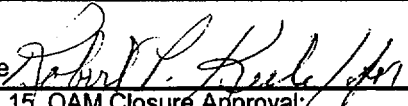
7. Initiator:
Richard L. Maudlin  05/14/02
Printed Name Signature Date

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

10. Recommended Actions:
Take immediate action to test and document the results of the test for both changes to the software or document the justification to support that testing was not required.

11. QA Review:
Richard L. Maudlin  05/14/02
Printed Name Signature Date

12. Response Due Date:
20 Working Days after Issuance

13. QAM Issuance Approval:
Printed Name Donald T. Krishna
Signature  Date 5/15/02

14. Corrective Actions Verified/Closure
QAR Printed Name Signature Date

15. QAM Closure Approval:
Printed Name Signature Date

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DR/CAR/QO
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NO. BSC(V)-02-D-116
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CONDITION ADVERSE TO QUALITY CONTINUATION PAGE

BLOCK 6 Continued:

C. Fluke Multimeter, Model 8842A, Serial Number 4007160, was found to be Out of Tolerance, upon receipt on May 14, 2001 by the Fluke Corporation. There was no documentation to support the identification of the Out of Tolerance condition and an assessment of the validity of previous inspection and test results using the Fluke Multimeter in support of YMP analysis.

D. The Mikron Instrument Status Report failed to include Mikron inspection, measuring, and test equipment M67S IR Sensor, Serial Number 41741 and the Anritsu-Anritherm HL600 (R120) Type K t/c indicator, Serial Number C60002 and associated calibration frequencies.

BLOCK 10 Continued:

C. Take immediate action to evaluate the Out of Tolerance condition identified by the Fluke Corporation, upon receipt on May 14, 2001, for the calibration of the Fluke Multimeter, Serial Number 4007160, and document the results of the evaluation and determination of the impact on previous use.

D. Take the necessary action to assure that all applicable inspection, measuring, and test equipment used to support YMP activities is listed on the Mikron Instrument Status Report, including associated frequencies.

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8. DEFICIENCY REPORT
 CORRECTIVE ACTION REPORT
NO. BSC(V)-02-D-116
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DEFICIENCY REPORT/CORRECTIVE ACTION REPORT


1. Controlling Document: (Document ID and Revision or Date) Mikron Quality Assurance Manual, Revision K		2. Related Report No.: BSC-SA-02-024	
3. Responsible Organization: BSC/ Mikron Instrument Company, Inc.		4. Discussed With: K. Irani, M. MacBurney (Mikron), and N. Kramer, R. VanDillen (BSC)	

5. Requirement:
The Mikron Quality Assurance Manual, Section 11.0, Subsection 4.11.1 states, in part: "Mikron Instrument Company, Inc. has established and maintains documented procedure to control, calibrate, and maintain inspection, measuring, and test equipment..." Subsection 4.11.2 states, in part: "The established documented procedures: (3) Define the process employed for the calibration, of inspection, measuring, and test equipment including details of...frequency of checks.... (5) Maintain calibration records for inspection, measuring, and test equipment.... (6) Assess and document the validity of previous inspection and test results when inspection, measuring, and test equipment is found out of calibration."

6. Description of Condition:
Contrary to the above:
A. No Mikron procedures could be provided which describe the requirements for documenting Mikron internal calibrations. Documentation supporting the Mikron internal calibration of the MS67S IR Sensor, Serial Number 41741, Mikron Black Body Source, Serial Number SS290, and Anritsu-Anritherm HL600, Serial Number C60002, failed to include such information as who performed the calibration, the procedure and revision used to perform the calibration, the clear unique identification of the item under calibration, as found/as left condition, etc. The Mikron M&TE described above was used to support work performed under BSC Purchase Orders 24540-160-PO-00178 and -01644.
B. No calibration procedure could be provided for the calibration of the Anritsu-Anritherm HL600 (R120) Type K t/c indicator.
(See Continuation Page)
Has work been stopped? Yes No

7. Initiator: Richard L. Maudlin  05/15/02 Printed Name Signature Date	9. Does a stop work condition exist? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A If Yes, Check One: <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D
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10. Recommended Actions:
A. Take immediate action to prepare/revise approved procedures to address documentation requirements for the internal calibration of Mikron inspection, measuring and test equipment.
B. Take the necessary action to prepare and approve a procedure the calibration of the Anritsu-Anritherm HL600 (R120) Type K t/c indicator. Review the process implemented during the calibration of the Anritsu-Anritherm HL600 (R120) Type K t/c indicator and verify what was performed complied with the new approved procedure. Document all calibrations in accordance with the revised SOP which describes the requirements for documenting Mikron internal calibrations. (See Continuation Page)

11. QA Review: Richard L. Maudlin  05/15/02 Printed Name Signature Date	12. Response Due Date: 20 Working Days after Issuance
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13. QAM Issuance Approval: Printed Name Donald T. Krishna Signature  Date 5/15/02
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14. Corrective Actions Verified/Closure QAR Printed Name Signature Date	15. QAM Closure Approval: Printed Name Signature Date
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WASHINGTON, D.C.**

8. DEFICIENCY REPORT
 CORRECTIVE ACTION REPORT
NO. BSC(V)-02-D- 115
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DEFICIENCY REPORT/CORRECTIVE ACTION REPORT

1. Controlling Document: (Document ID and Revision or Date)
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and 24540-160-PO-01644, Scope of Work, Rev. 00, dated 08/31/01

2. Related Report No.:
BSC-SA-02-024

3. Responsible Organization:
BSC/ Mikron Instrument Company, Inc.

4. Discussed With:
K. Irani, M. MacBurney (Mikron), and
N. Kramer, R. VanDillen (BSC)

5. Requirement:

BSC Purchase Orders 24540-160-PO-00178 and -01644, Scope of Work, Section IV, Subsection 3.0 states, in part: "Mikron shall be prohibited from making any quality procurements without prior approval from the purchaser for any items/services subject to this statement of work."

6. Description of Condition:

Contrary to the above, no objective evidence could be provided to reflect the approval of the purchaser (Bechtel SAIC Company, LLC) for the use of Sensing Devices, Inc. for the calibration of Mikron thermocouple PS032. This thermocouple was used for the calibration of Mikron M67S IR Sensor, Serial Number 41741, and Mikron Anritsu-Aritherm HL600 (R120) Type K t/c indicator, Serial Number C60002.

Has work been stopped? Yes No

7. Initiator:

Richard L. Maudlin
Printed Name


Signature

05/14/02
Date

9. Does a stop work condition exist?

Yes No N/A

If Yes, Check One: A B C D

10. Recommended Actions:

Take immediate action to notify and obtain BSC approval for the use of Sensing Devices, Inc. as required by the BSC Purchase Order. Place the reports and associated data provided by Mikron in an indeterminate status. If the Mikron Report and any associated data has been entered into the TDMS, take the necessary action to status the report and associated data as indeterminate.

11. QA Review:

Richard L. Maudlin
Printed Name


Signature

05/14/02
Date

12. Response Due Date:

20 Working Days after Issuance

13. QAM Issuance Approval:

Printed Name Donald T. Krishna

Signature



Date 5/15/02

14. Corrective Actions Verified/Closure

QAR Printed Name

Signature

Date

15. QAM Closure Approval:

Printed Name

Signature

Date