

Department of Energy

Washington, DC 20585

QA: L

SEP 19 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

ISSUANCE OF DEFICIENCY REPORT (DR) YM-97-D-087 RESULTING FROM
OFFICE OF QUALITY ASSURANCE (OQA) SUPPLIER AUDIT OQA-SA-97-024 OF
CAMPBELL SCIENTIFIC, INC.

Enclosed is DR YM-97-D-087 generated as a result of OQA Audit OQA-SA-97-024.

Please provide a response to this deficiency that meets the applicable requirements of
Administrative Procedure 16.1Q, Performance/Deficiency Reporting. Send the original
of your response to Deborah Sult, OQA/QATSS, P.O. Box 30307, Mail Stop 455,
North Las Vegas, Nevada 89036-0307. Response to the DR is due 20 working days from
the date of this letter. Any extension to the due date must be requested in writing, with
appropriate justification, prior to the due date.

If you have any questions, please contact either James Blaylock at (702) 794-1420 or
Richard L. Maudlin at (702) 794-1302.

R.W. Craig
for Donald G. Horton, Director
Office of Quality Assurance

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Enclosure:
DR YM-97-D-087

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R. W. Craig

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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
R. L. Maudlin, OQA/QATSS, Las Vegas, NV
D. G. Sult, OQA/QATSS, Las Vegas, NV
R. W. Clark, DOE/OQA, Las Vegas, NV

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


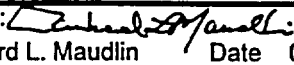

8 Performance Report
 Deficiency Report

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PERFORMANCE/DEFICIENCY REPORT

1 Controlling Document: U.S. Geological Survey (USGS) Purchase Order (PO) 1434-CR-97-SA-00067/ Campbell Scientific, Inc. (CSI) Quality Assurance (QA) Manual, Revision 02		2 Related Report No. OQA-SA-97-024	
3 Responsible Organization: USGS/CSI		4 Discussed With: Clint Howell, Paul Campbell, Tom Chaney	
5 Requirement/Measurement Criteria: USGS PO 1434-CR-97-SA-00067, Attachment "Yucca Mountain Project (YMP)-USGS-QA Requirements for Suppliers of Quality Services," Part II, Section 4, states in part: "Describe the approach used to assure that scope of work, technical and quality requirements are incorporated into procurement documents and changes to the documents. Include requirements to document the evaluation and selection of suppliers prior to the award of the contract/PO ... The procurement documents for services directly supporting this procurement work shall incorporate appropriate YMP USGS QA program requirements." Continued on Page 3			
6 Description of Condition: Contrary to the above, CSI is not implementing USGS procurement document requirements. Examples are as follows: 1. CSI's Operating Procedures for purchasing do not address requirements that procurement documents include technical and quality requirements. In addition, no evidence could be provided to reflect that procurement documents for the purchase of calibration services of Stabro Laboratory and Data Precision included technical and quality requirements. 2. No documented evidence could be provided to reflect a supplier evaluation and qualification of Data Precision, who provided calibration services in relation to the purchase and calibration of a Data Precision Model 8200 voltage source, Serial Number A031746. 3. No evidence of traceability to National Institute of Standards and Technology (NIST), or other nationally recognized standard, could be provided for the calibration of CSI Standard (Data Precision Model 8200, Serial Number A031746) used to calibrate USGS Model 21X Data Logger Serial Number 10494. Continued on Page 3			
7 Initiator  Richard L. Maudlin		Date 09/02/97	
		9 Is condition an isolated occurrence? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Unknown; Must be Yes if PR	
10 Recommended Action: (Not required for PR) 1. Evaluate the impact on the calibrations performed by CSI, based on the identified conditions in Block 6. 2. Investigate and determine if any other suppliers have been used to calibrate CSI's standards that have not been qualified. Continued on Page 3			
11 QA Review:  QAR Richard L. Maudlin		Date 09/02/97	
		12 Response Due Date 20 working days from issuance	
13 Director, OQA Issuance Approval: (QAR for PR) Printed Name Donald G. Horton Signature  Date 9/18/97			
22 Corrective Action Verified QAR		Date	
		23 Closure Approved by: (N/A for PR) DOQA	

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PERFORMANCE/DEFICIENCY REPORT RESPONSE

14 Remedial Actions:

15 Extent of Condition: (Not required for PR)

16 Root Cause Determination: (Not required for PR)

Required Yes No

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

Required Yes No

18 Corrective Action Completion Due Date:

19 Response by:

20 Response Accepted

QAR

Date

21 Response Accepted (N/A for PR):

DOQA

Date

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PR/DR CONTINUATION PAGE

5. Requirement/Measurement Criteria:

USGS PO 1434-CR-97-SA-00067, Attachment "YMP-USGS-QA Requirements for Suppliers of Quality Services," Part II, Section 6, states in part: "Describe the methods used to assure that M&TE is adjusted and maintained as a unit at prescribed intervals or prior to use against referenced standards having traceability to nationally recognized standards." Also, CSI's QA Manual, Section 4.11, states in part: "All measurement standards used for calibration and final testing of our products ... Test equipment shall show traceability to NIST or other nationally recognized standards."

USGS PO 1434-CR-97-SA-00067, Attachment "YMP-USGS-QA Requirements for Suppliers of Quality Services," Part III, Section 3, states in part: "The supplier shall notify the YMP-USGS technical contact when a calibration instrument used to calibrate and certify YMP-USGS equipment is found to be defective or out-of- calibration."

USGS PO 1434-CR-97-SA-00067, Attachment "YMP-USGS-QA Requirements for Suppliers of Quality Services," Part II, Section 6, states in part: "...The supplier's calibration documentation (e.g., Certificate of Calibration) shall include the following ... D. A statement of accuracy of the Principle Reference Standard(s) used in the calibration is greater than (or equal to with justification) the required accuracy of the equipment being calibrated ... G ... and calibration procedure or method used."

USGS PO 1434-CR-97-SA-00067, Attachment "YMP-USGS-QA Requirements for Suppliers of Quality Services," Section 8, states in part: "QA Records: Describe methods for specifying, preparing, and maintaining records that provide evidence of quality ... The requirements and responsibilities for records transmittal, distribution, retention, maintenance, and disposition shall be established and documented."

6. Description of Condition:

4. No objective evidence could be provided to reflect that USGS was notified, as required by the USGS PO 1434-CR-97-SA-00067, when CSI standard Data Precision Model 8200, Serial Number A014824 was found to be out of calibration upon receipt by the calibration supplier, and when the CSI standard Oscillatek frequency oscillator, Serial Number 315550 was found to have failed operation and removed from service, not to be reused.
5. CSI Certificates of Calibration for the calibration of USGS 21X Data Loggers, Serial Numbers 10494, 4941, and 2833, did not include a statement of accuracy of the reference standards used in performing the calibrations. Also, the Certificate of Calibrations for USGS 21X Data Loggers Serial Numbers 4941 and 2833 did not include a reference to the procedure used to perform the calibration.
6. CSI has not developed and issued an Operating Procedure for the control of QA records.

10. Recommended Action:

3. Investigate and document why CSI is not in compliance with the USGS PO 1434-CR-97-SA-00067 and describe what actions USGS is going to take to assure that CSI will comply with all aspects of the USGS procurement documents from this point forward.
4. USGS should consider if it would be beneficial to request copies of all necessary QA records, thus removing the responsibility of maintenance of QA records from CSI.