

QA: QA

Robert W. Craig, Technical Project Officer Yucca Mountain Project Branch U.S. Geological Survey 1180 Town Center Drive Las Vegas, NV 89144

VERIFICATION OF CORRECTIVE ACTION AND CLOSURE OF DEFICIENCY REPORTS (DRs) USGS(V)-02-D-084 AND -085 RESULTING FROM THE BECHTEL SAIC COMPANY, LLC (BSC) QUALITY ASSURANCE AUDIT BSC-SA-02-012 OF FLUKE CORPORATION

BSC Quality Assurance has verified implementation of corrective action for DRs USGS(V)-02-D-084 and -085 and determined the results to be satisfactory. As a result, the DRs have been closed.

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

Q.T.V.I

Donald T. Krisha, Manager Quality Assurance

5/20/02

Date Signed

RLM:bw-0520022696

Enclosure: DRs USGS(V)-02-D-084 and -085

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May 20, 2002 Page 2

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. Krisha, 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:

Gwynn Blanchard, Fluke Corporation, Everett, WAT. H. Chaney, USGS, Denver,COR. L. Maudlin, BSC, Las Vegas, NVM. H. Mustard, USGS, Denver, COD. J. Sinks, BSC, Denver, CO

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OFFICE OF CIVILI RADIOACTIVE WASTE MAN U.S. DEPARTMENT OF E	AGEMENT REPORT	
ORIGINAL WASHINGTON, D.C	PAGE 1 OF QA: QA	
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DEFICIENCY/CORRECTIVE		
1. Controlling Document:	2. Related Report No.:	
USGS Purchase Order 01CRSA0584	BSC-SA-02-012	
3. Responsible Organization:	4. Discussed With:G. Blanchard, Fluke Corporation;	
USGS / Fluke Corporation	T. Chaney, USGS	
5. Requirement:		
A. USGS Purchase Order 01CRSA0584, QA Requireme documented QA program shall address the following assure that technical and quality requirements are inco these documents shall be described."	nts, Section II, states in part: "The Fluke Corporation .". Subsection 3.0, states in part: "The approach used to orporated into procurement documents and changes to	
B. USGS Purchase Order 01CRSA0584, QA Requireme documented QA program shall address the following t selection of the supplier prior to the award of a contract	opics The methods used to document evaluation and	
6. Description of Condition:		
address requirements for the Fluke CSS purchase ord applicable technical and quality requirements. In addi 01/18/02, and PO 163964, dated 02/01/02, found that B The Fluke Customer Support Services (CSS) Quality	tion, two Fluke purchase orders, PO 163422, dated technical requirements were not adequately identified. Assurance Manual, CSS PD 400, dated 12/99, does not Fluke Primary Standards Laboratory for the calibration of	
7. Initiator:	9. Does a stop work condition exist? (Not required for a DR)	
Richard L. Maudlin Date 03/08/2002	If Yes, Check One: 🗌 A 📄 B 🔤 C 🛄 D	
 10. Recommended Actions: A. Take the necessary action to revise the CSS Quality Assurance Manual to include requirements for CSS procurement documents to include appropriate technical and quality requirements and how changes to these procurement documents will be controlled. 		
B. Take the necessary action to revise the CSS Quality A the CSS and the Fluke Primary Standards Laboratory	Assurance Manual to describe the relationship between regarding the calibration of CSS standards.	
11. QA Review: Maulli	12. Response Due Date: 20 Working Days From Issuance	
QAR Richard L. Maudlin Date 03/08/2002	I	
13. DOQA Issuance Approval: Printed Name Donald T. Krisha Signature	T. Linsha Date 3/19/02	
	23. Closure Approved by: DOQA Donald T. Krisha Date 5/20/02	
Exhibit AP-16.1Q.1	Rev. 12/20/1999	

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2. Check if Amended	OFFICE	OF CIVILIAN	1. DR/CAR NO. USGS(V)-2-D- PAGE OF
Check if also Initial Response	•	ASTE MANAGEMENT	QA: QA
3. Extended Processing	1	MENT OF ENERGY	
✓ No Yes (If yes, submit Extended Processing request)	WASHI	NGTON, D.C.	ORIGINAL
DEFICIENCY RE	PORT/CORRECTIVE	ACTION REPORT COM	PLETE RESPONSE
4. Extent of Condition: (Amended nerein)	response will be required if a	I Extent of Condition investigatio	ons are not complete and document
Fluke CSS uses only Fluke PSL to Fluke Corporation. Fluke Corporation. The relationship between the two 4.11.3, of the CSS QA Manual. T	tion services would only be us to obtain calibrations of their N ration has approved the Fluke o is identified in section 11.4 of The Fluke Corporate QA Manu	sed for Fluke calibrations of som M&TE. Fluke PSL is not a vend Corporate QA Manual which app f the Corporate QA Manual and ual addresses the PSL's internal a	
5. Impact: (Provide an impact stat	ement relative to waste isolati	ion and safety, and impact to oth	er work, if any)
There is no impact due to this DR done under USGS POs. Implement	because there have been no F ntation of USGS POs have be	Iuke quality-affecting procureme en limited to calibrations of Fluk	ents used to support Fluke calibration equipment.
		r	
8. Remedial Actions: (Document a	all actions necessary to addre	ss the results of the Estant of O	
			nontion) ny outside vendors to support Flukt
the frequency of comprehensive in			
7. 🔲 Root Cause 🛛 (For a significa	ant CAO, attach results of form	nal root cause determination prep	pared in accordance with AP-16.4Q
Apparent Cause			
✓ Apparent Cause	the Fluke CSS QA Manual ind	dicated that it met the applicable	requirements so that Criteria 4 and
✓ Apparent Cause The previous YMP QA review of were deemed applicable to Fluke of	the Fluke CSS QA Manual ind on the OCRWM Qualified Su	dicated that it met the applicable ppliers List (QSL.)	
✓ Apparent Cause The previous YMP QA review of were deemed applicable to Fluke of 8. Action to Preclude Recurrence:	the Fluke CSS QA Manual ind on the OCRWM Qualified Sup (Address those actions neces of services for which Fluke CS at Fluke CSS must use only Fl	dicated that it met the applicable ppliers List (QSL.) ssary to prevent the identified car SS is qualified be limited to Fluke uke PSL to calibrate its standard	use from recurring)
 ✓ Apparent Cause The previous YMP QA review of were deemed applicable to Fluke of 8. Action to Preclude Recurrence: USGS will request that the scope of included in the QSL to indicate that calibrations. This scope of approv 	the Fluke CSS QA Manual ind on the OCRWM Qualified Sup (Address those actions neces of services for which Fluke CS at Fluke CSS must use only Fl ved services allows criteria 4 a	dicated that it met the applicable ppliers List (QSL.) ssary to prevent the identified car SS is qualified be limited to Fluke uke PSL to calibrate its standard	use from recurring)
 ✓ Apparent Cause The previous YMP QA review of were deemed applicable to Fluke of 8. Action to Preclude Recurrence: USGS will request that the scope of included in the QSL to indicate that 	the Fluke CSS QA Manual ind on the OCRWM Qualified Sup (Address those actions neces of services for which Fluke CS at Fluke CSS must use only Fl ved services allows criteria 4 a	dicated that it met the applicable ppliers List (QSL.) ssary to prevent the identified can SS is qualified be limited to Fluke uke PSL to calibrate its standard and 7 to be N/A for Fluke CSS. 10. Responsible Manager: Robert Manager S	use from recurring)
 ✓ Apparent Cause The previous YMP QA review of were deemed applicable to Fluke of a second deemed applicable	the Fluke CSS QA Manual ind on the OCRWM Qualified Sup (Address those actions neces of services for which Fluke CS at Fluke CSS must use only Fl ved services allows criteria 4 a rrective Action:	dicated that it met the applicable ppliers List (QSL.) ssary to prevent the identified car SS is qualified be limited to Fluke uke PSL to calibrate its standard und 7 to be N/A for Fluke CSS. 10. Responsible Manager: RobertM. Graig Printed Name 12. QAM Concurrence:	use from recurring) e equipment and that a restriction b s used in support of YMP D. Sinks 4/16/0 RAMAW. Craig 4/16/0
 ✓ Apparent Cause The previous YMP QA review of were deemed applicable to Fluke of 8. Action to Preclude Recurrence: USGS will request that the scope of included in the QSL to indicate that calibrations. This scope of approx Due Date for Completion of Cor 	the Fluke CSS QA Manual ind on the OCRWM Qualified Sup (Address those actions necess of services for which Fluke CS at Fluke CSS must use only Fl ved services allows criteria 4 a rrective Action:	dicated that it met the applicable ppliers List (QSL.) ssary to prevent the identified can SS is qualified be limited to Fluke uke PSL to calibrate its standard and 7 to be N/A for Fluke CSS. 10. Responsible Manager: Robert M. Graig Printed Name 12. QAM Concurrence: Donald T. Krisha	use from recurring) e equipment and that a restriction b s used in support of YMP D. Sinks 4/16/0 RAMAW. Craig 4/16/0

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

✓ DR/CAR/QO
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NO. BSC(V)-02-D-084 PAGE OF QA: QA

CONDITION ADVERSE TO QUALITY CONTINUATION PAGE

VERIFICATION OF CORRECTIVE ACTION AND CLOSURE OF DR BSC(V)-02-D-084

On May 14, 2002, a follow-up verification was performed to verify implementation of corrective action to Deficiency Report (DR) BSC(V)-02-D-084. This follow-up verification was based on the response to the DR and a review of the following documentation to support implementation of corrective action.

- Fluke Corporation QA Manual and the Fluke Customer Support Services (CSS) QA Manual for the relationship between the CSS and Fluke Primary Standards Laboratory.

- A letter from Gwynn Blanchard, CSS QA Manager, Fluke Corporation, dated April 23, 2002, to the U.S. Geological Survey (USGS) stating that traceability of all Fluke calibrations is through the Fluke Corporation Primary Standards Laboratory. Vendors are only used for the calibration of non-Fluke equipment. The letter also states that the frequency of internal audits of the Primary Standards Laboratory will be annually.

- An e-mail from Martha Mustard, USGS to Richard Maudlin, BSC, dated 04/16/2002, requesting a change in the scope of services for Fluke to only allow them to calibrate Fluke equipment. Also, the e-mail requested that responsibility for implementation of QA Elements 4 and 7, Procurement Document Control and Control of Purchased Items and Services, be removed from Fluke Corporation's responsibility.

The documentation provided, including the response to the DR, satisfactorily resolves the condition adverse to quality (CAQ) and implements the corrective actions stated in the DR response. A review has been performed to reassess the significance of the CAQ in accordance with Administrative Procedure AP-16.1Q. Based on the extent of condition, it has been determined that no change in the status of this DR is warranted.

Based on the above, this DR is considered closed.

Richard L. Maudlin

05-16-02 Date Signed



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ORIGINAL	WASHINGTON, D.	C.	PAGE 1 OF
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	EFICIENCY/CORRECTIVE	ACTION REPO	RT
1. Controlling Document:			2. Related Report No.:
USGS Purchase Order 01CR	SA0584		BSC-SA-02-012
3. Responsible Organization:		4. Discussed Wi	
USGS / Fluke Corporation		T. Chaney, US	Fluke Corporation; GS
5. Requirement:			
scheduled audits to verify com program shall be performed at	pliance with the QA program re	equirements and t	n 8.0, states in part: "Planned and o determine the effectiveness of the QA
does not address requirement	s for an annual internal audit to ddition, no evidence in the form	be performed of t	e Manual, CSS PD 400, dated 12/99, the CSS quality program to assure rt could be provided to support that an
7. Initiator:	Date 03/08/2002	Yes X	ork condition exist? (Not required for a DR) No $\sim \frac{3}{4} \cdot \frac{1}{2}$
10. Recommended Actions:	· · · · · · · · · · · · · · · · · · ·		Dne: 🗌 A 🗌 B 🗌 C 🗍 D
annual audits of the CSS to ev	evise the CSS Quality Assurance aluate the effectiveness of impl	ementation of the	Ide requirements for performance of CSS quality assurance program.
11. QA Review:	··	12. Response Du	
QAR Richard L. Maudlin	Date 03/08/2002	20 Working Day	vs From Issuance
13. DOQA Issuance Approval: Printed Name Donald T. Kris 22. Corrective Actions Verified:		23. Closure Approv	Date 3/19/02
QAR: Richard L. Maudl:	05/.1	DOQA Donald	T. Krisha Date Date
			Rev. 12/20/1999

			× 4/22/02
		1. DR/CAR NO	. USGS(V)-2-D-85
2. Check if Amended	F CIVILIAN STE MANAGEMENT	PAGE	OF 085 X
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DEFICIENCY REPORT/CORRECTIVE A	CTION REPORT COMP	PLETE RES	PONSE
4. Extent of Condition: (Amended response will be required if all E herein)	xtent of Condition investigation	s are not compl	ete and documented
Review of Fluke CSS audit history indicates no internal audit durin has been scheduled for May 2002.	ng 2001 but an audit had been p	performed in 20	00 and another audit
5. Impact: (Provide an impact statement relative to waste isolation	and safety, and impact to othe	r work, if any)	
There is no impact. YMP supplier audit BSC-SA-02-012 covered	the entire applicable Fluke CS	S QA Program.	
6. Remedial Actions: (Document all actions necessary to address	the results of the Extent of Con	dition)	
The Fluke CSS QA Manual has been revised to indicate that CSS	will be audited internally every	Vear	
7. Root Cause (For a significant CAQ, attach results of formal	root cause determination prepa	ared in accorda	nce with AP-16.4Q)
Apparent Cause			
The Fluke Corporate QA Manual requires more frequent audits bu specifically. Previous to the YMP audit that generated this DR, th is and the annual audit requirement was met by the Fluke Corporat	e YMP approval of Fluke Corp		
8. Action to Preclude Recurrence: (Address those actions necess	ary to prevent the identified cau	se from recurrir	ig)
The actions taken described in block 6 will also prevent this condi	tion from recurring.		
9. Due Date for Completion of Corrective Action:	10 Personaible Managar		0.5:4-
I 9. Due Date for Completion of Corrective Action.	10. Responsible Manager:		a surver 1
		. 1. 0	4/16/02
04/12/2002	Robert UD. Craig Ro Printed Name S	<u>bert W. Cea</u> i ignature	4/16/02 <u>4/16/02</u> Date
	Robert UD. Craig Ro Printed Name Si 12. QAM Concurrence:	ignature	4/16/02 <u>4/16/02</u> Date

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

DR/CAR/QO
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NO. BSC(V)-02-D-085 PAGE OF QA: QA

CONDITION ADVERSE TO QUALITY CONTINUATION PAGE

VERIFICATION OF CORRECTIVE ACTION AND CLOSURE OF DR BSC(V)-02-D-085

On May 14, 2002, a follow-up verification was performed to verify implementation of corrective action to Deficiency Report (DR) BSC(V)-02-D-085. This follow-up verification was based on the response to the DR and a review of the following documentation to support implementation of corrective action:

- Fluke Corporation Quality Systems Internal Audit Schedule for 2002, dated 04/30/2002, indicating the scheduling of an audit of the Fluke Customer Support Services (CSS) in May 2002.

- A revision to the Fluke Corporation CSS Quality Assurance Manual, CSS PD400, dated April 2002, Section 4.17, which requires that an internal audit be performed at least annually.

The documentation provided, including the response to the DR, satisfactorily resolves the condition adverse to quality (CAQ) and implements the corrective actions stated in the DR response. A review has been performed to reassess the significance of the CAQ in accordance with Administrative Procedure AP-16.1Q. Based on the extent of condition, it has been determined that no change in the status of this DR is warranted.

Based on the above, this DR is considered closed.

Richard L. Maudlin

05-16-02 Date Signed



AP-16.1Q.2

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