



Department of Energy

Washington, DC 20585

QA: QA

JUL 23 2002


K. G. Hess
President and General Manager
Bechtel SAIC Company, LLC
1180 Town Center Drive, M/S 423
Las Vegas, NV 89144

U.S. DEPARTMENT OF ENERGY OFFICE OF CIVILIAN RADIOACTIVE WASTE
MANAGEMENT OFFICE OF QUALITY ASSURANCE (OQA) ISSUANCE OF
SURVEILLANCE RECORD OQA-02-S-13 OF BECHTEL SAIC COMPANY, LLC (BSC)

Enclosed is the Surveillance Record, OQA-02-S-13, conducted by representatives of OQA at BSC on July 9, 2002, to evaluate software related to the use of Measuring and Test Equipment (M&TE) in use by the Environmental Safety and Health (ES&H), Information Analysis Management Department, Radiation Programs Section in Las Vegas and the Exploratory Studies Facility.

The surveillance team determined the use of M&TE-related software within the ES&H department is satisfactory and fully compliant. This surveillance is considered complete and closed as of the date of this letter. A response to this surveillance record is not required.

If you have any questions, please contact either James Blaylock at (702) 794-1420 or Samuel E. Archuleta at (702) 794-1476.


Ram B. Murthy, Acting Director
Office of Quality Assurance

OQA:JB-1475

Enclosure:
Surveillance Record OQA-02-S-13

Nmsse7
WM-11



cc w/encl:

Margaret Chu, DOE/HQ (RW-1), FORS
B. V. Hamilton-Ray, DOE/CMD (RW-55), Las Vegas, NV
N. K. Stablein, NRC, Rockville, MD
Robert Latta, NRC, Las Vegas, NV
Alan Kalt, Churchill County, Fallon, NV
Irene Navis, Clark County, Las Vegas, NV
George McCorkell, Esmeralda County, Goldfield, NV
Leonard Fiorenzi, Eureka County, Eureka, NV
Andrew Remus, County of Inyo, Independence, CA
Mickey Yarbrow, Lander County, Battle Mountain, NV
Lola Stark, Lincoln County, Caliente, NV
Arlo Funk, Mineral County, Hawthorne, NV
L. W. Bradshaw, Nye County, Pahrump, NV
R. R. Loux, State of Nevada, Carson City, NV
S. W. Lynch, State of Nevada, Carson City, NV
Josie Larson, White Pine County, Ely, NV
Mifflin and Associates, Las Vegas, NV
L. D. Croft, BSC, Las Vegas, NV
D. T. Krisha, BSC, Las Vegas, NV
K. W. Roesner, BSC, Las Vegas, NV
N. H. Williams, BSC, Las Vegas, NV
K. M. Wolverton, BSC, Las Vegas, NV
S. E. Archuleta, NQS, Las Vegas, NV
P. V. Auer, NQS, Las Vegas, NV
R. P. Hasson, NQS, Las Vegas, NV
File, NQS, Las Vegas, NV
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J. R. Dyer, DOE/YMSCO, Las Vegas, NV
D. G. Horton, DOE/YMSCO, Las Vegas, NV
S. P. Mellington, DOE/YMSCO, Las Vegas, NV
M. E. Van Der Puy, DOE/YMSCO, Las Vegas, NV
V. W. Trebules, DOE/YMSCP, Las Vegas, NV
J. D. Ziegler, DOE/YMSCO, Las Vegas, NV

**OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT
QUALITY ASSURANCE SURVEILLANCE REPORT**

QA: QA

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QA Surveillance Number:
OQA-02-S-13

Complete only applicable items.

1. Organization/Location Bechtel SAIC Company, LLC Las Vegas, NV	2. Subject Software related to the use of Measuring and Test Equipment (M&TE)	3. Date(s) Performed July 9, 2002
4. Surveillance Scope All M&TE related software in use by the Environmental Safety & Health (ES&H) Information Analysis Management Department, Radiation Programs Section in Las Vegas and the Exploratory Studies Facility.		
5. Requirement(s) (Procedure, Specification, Drawing, etc.) Determine whether software related to the use of M&TE should be qualified and baselined in accordance with AP-SI.1Q, Software Management, or whether it should be exempt from controls per AP-SI.1Q, Section 2.1.4. Section 2.1.4 provides the following exemption: "Acquired software that is embedded in the equipment or integral to the operations, maintenance, or calibration of measuring and test equipment and has not been developed or modified by the Affected Organization. This type of software is tested and controlled in accordance with AP-12.1Q...."	6. Originator <u>Sam E. Archuleta</u> Team Members <u>Christian M. Palay</u>	

SURVEILLANCE RESULTS

7. Description/Details
At present, the ES&H Information Analysis and Management Department, Radiation Programs Section uses the following software codes: EFPDATA V4.1.2 Software Tracking Number (STN) 10420-4.1.2-00 and PC-208W V3.2 STN 10739-3.2-00. EFPDATA is a software routine used to import meteorological and gaseous pollutants data into an Access database. This version was modified from V4.0, and was baselined on November 29, 2002. The Software User Request for this code was observed in the Software Configuration Management (SCM) Library. One additional code is used by the department: PC-208W is embedded software furnished by the manufacturer. The software performs utility functions related to the collection and display of records. This software was evaluated and deemed to fall under the exemption for system utilities provided by AP-SI.1Q, Section 2.1.1

Other computer instructions, once considered to be "software," have been evaluated and deemed to be simple automated input files which only control how the Campbell Scientific Datalogger operates. They perform no calculations, nor do they contain any condition loops. They have, therefore, been evaluated to be exempt from AP-SI.1Q control. This evaluation has been documented in the attached BSC Interoffice Memorandum (Attachment 1). There are no other software codes in use by this department at this time. There are no codes in the process of being developed, nor are there any other codes in the qualification process.

The only other "software" in use by this department consists of embedded software integral to and tested with the M&TE. This software cannot be modified in any way by users.

8. Persons (and their organizations) Contacted ES&H: Larry Croft, Kenneth Wolverton, Peter Roesner, Trevor Heller, Paul Fransioli SCM: Jeffery Mason	9. CAQ/NCR/TE Issued <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Recommendation Issued <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	CAQ/NCR/TE Number(s): <u>N/A</u> CIRS Number(s): <u>N/A</u>
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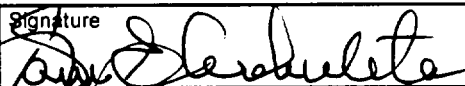

10. Surveillance Conclusions SAT UNSAT

Use of M&TE-related software within this department is deemed to be very satisfactory and fully compliant. All M&TE-related software has either been qualified and baselined, or it has been evaluated and falls within an approved exemption category.

Personnel interviewed demonstrated awareness and knowledge of program controls concerning M&TE-related software.

Personnel contacted during the surveillance were well prepared and very cooperative.

There being no deficient conditions noted, nor any recommendations made, recommend this surveillance activity be considered closed.

11. Completed By (Originator) (Print Name) Sam E. Archuleta	Signature 	Date 7/11/02
12. Reviewed By (Appropriate QA Manager) (Print Name) Ram B. Murthy	Signature 	Date 7/22/02
13. Approved By (QVM) (Print Name) Ram B. Murthy	Signature	Date



Interoffice Memorandum

QA: NA

To: Stephen B. Splawn **No.:** 0130021292
From: Larry D. Croft *Larry D. Croft* **Date:** January 30, 2002
Re: Applicability of Software Controls in AP-SI.1Q, Software Management, to the On-Site Datalogger Operations at Meteorological Monitoring Stations **CC:** See List Below

On January 8, 2002, staff involved with producing meteorological monitoring data (Paul Fransioli, Gary Jones, Trevor Heller, Laure Clark, and Ken Wolverton) met with you to determine the applicability of software controls in AP-SI.1Q, Software Management, to the on-site datalogger operations at the meteorological monitoring stations.

Following discussion of the Campbell Scientific Datalogger Operations, the instructions controlling datalogger operations are considered automated input files. The software controlling the datalogger operations is embedded in the datalogger, and is integral to the operations, maintenance, and calibration of the datalogger. This type of software is exempt from the software controls according to Section 2.1.4 in AP-SI.1Q.

Automated input files are not, and should not be, included in the software management process of AP-SI.1Q. The process of testing and documenting the automated input files will be in line procedures controlling the routine operations of the meteorological sites.

LDC:PMF:imb

Stephen B. Splawn

Stephen B. Splawn
Concurrence

1/30/02

Date Signed

cc:
C. T. Bastian, SUM1/423
L. L. Clark, SUM1/423
P. M. Fransioli, SUM1/423
T. A. Heller, SUM1/423
G. W. Jones, SUM1/423
J. F. Pelletier, SUM1/423
T. M. Moran, SUM1/423
K. M. Wolverton, SUM1/423
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Attachment 1
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