



**Department of Energy**

Washington, DC 20585

QA: QA

**APR 10 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 (OCRWM) OFFICE OF QUALITY ASSURANCE (OQA) AUDIT  
BSC-ARC-02-09 OF BECHTEL SAIC COMPANY, LLC (BSC)

Please be advised that a team of auditors representing the OQA will conduct an audit of BSC's implementation of the OCRWM Quality Assurance Program, as described in DOE/RW-0333P, Revision 10, *Quality Assurance Requirements and Description* document and implementing procedures, at Las Vegas, Nevada, May 6-10, 2002. The audit will be conducted in accordance with the enclosed audit plan.

Observers from the state of Nevada, U.S. Nuclear Regulatory Commission, and other interested parties may accompany the audit team.

You are hereby requested to arrange for appropriate space to conduct meetings, provide cognizant personnel to support the audit, and provide audit team access to appropriate BSC documentation and records.

If you have any questions, please contact either James Blaylock at (702) 794-1420 or Donald J. Harris at (702) 794-1467.

*James Blaylock for*  
Ram Murthy, Acting Director  
Office of Quality Assurance

OQA:JB-0994

Enclosure:  
Audit Plan BSC-ARC-02-09



Printed with soy ink on recycled paper

*Dmsso/*  
*Wm*

APR 10 2002

cc w/encl:

Margaret Chu, DOE/HQ (RW-1) FORS  
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  
Judy Shankle, 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  
G. S. Bodvarsson, BSC/LBNL, Berkeley, CA  
Nancy Aden-Gleason, BSC/LBNL, Berkeley, CA  
P. R. Dixon, BSC/LANL, Los Alamos, NM  
M. H. Kohler, BSC/LLNL, Livermore, CA  
S. A. Orrell, BSC/SNL, Las Vegas, NV  
R. W. Andrews, BSC, Las Vegas, NV  
G. K. Beall, BSC, Las Vegas, NV  
S. J. Cereghino, BSC, Las Vegas, NV  
R. S. Hajner, BSC, Las Vegas, NV  
R. P. Keele, BSC, Las Vegas, NV, M/S 280  
J. L. King, BSC, Las Vegas, NV  
D. T. Krishna, BSC, Las Vegas, NV  
M. M. Maxfield, BSC, Las Vegas, NV  
W. C. Moller, BSC, Las Vegas, NV  
C. D. Sorensen, BSC, Las Vegas, NV  
L. J. Trautner, BSC, Las Vegas, NV  
M. D. Voegele, BSC, Las Vegas, NV  
D. D. von der Linden, BSC, Las Vegas, NV  
W. H. Wells, BSC, Las Vegas, NV  
J. S. Whitcraft, BSC, Las Vegas, NV  
N. H. Williams, BSC, Las Vegas, NV

cc w/encl: (continued)

F. H. Dove, NQS, Las Vegas, NV

D. J. Harris, NQS, Las Vegas, NV

R. P. Hasson, NQS, Las Vegas, NV

L. W. Wagner, NQS, Las Vegas, NV

File, NQS, Las Vegas, NV

J. R. Dyer, DOE/YMSCO, Las Vegas, NV

B. V. Hamilton-Ray, DOE/YMSCO, Las Vegas, NV

J. M. Replogle, DOE/YMSCO, Las Vegas, NV

B. M. Terrell, DOE/YMSCO, Las Vegas, NV

QA: QA

**U.S. DEPARTMENT OF ENERGY  
OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT  
OFFICE OF QUALITY ASSURANCE**

**QUALITY ASSURANCE AUDIT PLAN**

**FOR**

**AUDIT BSC-ARC-02-09**

**OF**

**BECHTEL SAIC COMPANY, LLC  
LAS VEGAS, NEVADA**

**MAY 6-10, 2002**

Prepared by: Donald J. Harris Date: April 9, 2002  
Donald J. Harris  
Audit Team Leader  
Navarro Quality Services

Approved by: Ram Murthy Date: 4/9/02  
Ram Murthy  
Acting Director  
Office of Quality Assurance

ENCLOSURE

## 1.0 SCOPE

A team of auditors representing the U.S. Department of Energy (DOE), Office of Quality Assurance (OQA) will perform a limited scope compliance-based audit to evaluate Bechtel SAIC Company, LLC (BSC) implementation of the Office of Civilian Radioactive Waste Management (OCRWM) Quality Assurance (QA) Program as defined in the DOE/RW-0333P, Revision 10, *Quality Assurance Requirements and Description (QARD)* document and applicable implementing procedures. The audit team will evaluate implementation, compliance, adequacy, and effectiveness of the QA program and procedures in place for activities supporting the Yucca Mountain Site Characterization Project Office.

In addition, a review of the status of past OCRWM deficiency documents identified during previous QA audits or surveillances of BSC will be included in the scope of this audit to determine the effectiveness of completed corrective actions.

The programmatic sections to be audited are identified in Section 4.0 of this audit plan.

## 2.0 AUDIT SCHEDULE

Pre-Audit Team/Observer Meeting	8:00 a.m., May 6, 2002 Las Vegas, Nevada
Pre-Audit Conference	8:30 a.m., May 6, 2002 Las Vegas, Nevada
Audit Activities	9:00 a.m. to 4:00 p.m., May 6, 2002 Las Vegas, Nevada
	8:00 a.m. to 4:00 p.m., May 7-9, 2002 Las Vegas, Nevada
	8:00 a.m. to 10:30 a.m., May 10, 2002 Las Vegas, Nevada
Post-Audit Conference	11:00 a.m., May 10, 2002 Las Vegas, Nevada

There will be a daily OQA Audit Team/Observer meeting at 4:00 p.m. to review audit progress. Additionally, there will be audit team/observer/BSC management meetings at 8:15 a.m. to communicate audit progress, discuss potential deficiencies, and establish needed liaisons. All meetings will be held at locations arranged and provided by BSC.

### 3.0 REQUIREMENTS TO BE AUDITED AND APPLICABLE REFERENCES

The requirements to be audited will be contained in the checklist, which will be developed from the latest available revision of the following documents:

- OCRWM QARD, DOE/RW-0333P
- OCRWM Administrative Procedures (AP) Procedures
- BSC Line Procedures

The conduct of the audit will be guided by the documents (latest revision) listed below:

- Quality Assurance Procedure QAP 18.2, *Internal Audit Program*
- Administrative Procedure AP-16.1Q, *Management of Conditions Adverse to Quality*

### 4.0 ACTIVITIES TO BE AUDITED

The audit team will evaluate the effectiveness of applicable QA program sections as they apply to the activities associated with BSC, Las Vegas, Nevada as follows:

1.0	Organization
2.0	Quality Assurance Program
4.0	Procurement Document Control
5.0	Implementing Documents
6.0	Document Control
7.0	Control of Purchased Items and Services
9.0	Control of Special Processes
10.0	Inspection
12.0	Control of Measuring and Test Equipment
15.0	Nonconformances
16.0	Corrective Action
17.0	Quality Assurance Records
18.0	Audits (external)
Supplement I	Software
Supplement III	Scientific Investigation
Supplement V	Control of the Electronic Management of Data
Appendix C	Monitored Geologic Repository (Procurement only)

The following QA program sections will not be evaluated during this limited scope audit:

3.0	Design Control
8.0	Identification and Control of Items
11.0	Test Control
13.0	Handling, Storage and Shipping
14.0	Inspection, Test and Operating Status
18.0	Audits (internal)

Supplement II	Sample Control
Supplement IV	Field Surveying
Appendix A	High Level Waste Form Production
Appendix B	Storage and Transportation

If the team identifies a need to verify additional programmatic areas during the audit, these areas will be added to the audit scope and evaluated accordingly. However, AP-SIII.9Q, Revision 0, I CN 1, *Scientific Analyses*; AP-SIII.10Q, Revision 0, ICN 1, *Models*; and AP-2.21Q, Revision 1, BSCN 1, *Quality Determinations and Planning For Scientific, Engineering, and Regulatory Compliance Activities*, are excluded from this audit.

## **5.0 AUDIT TEAM MEMBERS**

Donald J. Harris Navarro Quality Services (NQS), Las Vegas, Nevada,  
Audit Team Leader

F. Harvey Dove, NQS, Las Vegas, Nevada, Audit Team Leader in Training

Marilyn A. Kavchak, Las Vegas, Nevada, Auditor

Christian M. Palay, Las Vegas, Nevada, Auditor

Robert A. Toro, NQS, Las Vegas, Nevada, Auditor

James V. Voigt, NQS, Las Vegas, Nevada, Auditor

## **6.0 AUDIT CHECKLISTS**

BSC-ARC-02-09, Compliance Checklist.