

## **Department of Energy**

Washington, DC 20585

QA: QA

JUL 02 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-02-15 OF BECHTEL SAIC COMPANY, LLC (BSC)

Please be advised that a team of auditors representing the OQA will conduct a limited scope compliance-based audit of BSC's implementation of the OCRWM Quality Assurance Program, as described in DOE/RW-0333P, Revision 11, *Quality Assurance Requirements and Description*, document and implementing procedures, at Las Vegas, Nevada, July 29 - August 2, 2002. The audit will be conducted in accordance with the enclosed audit plan and will be limited to the BSC Repository Design Project.

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 Marilyn A. Kavchak at (702) 794-5423.

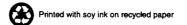
Ram B. Murthy, Acting Director Office of Quality Assurance

OQA:JB-1400

Enclosure:

Audit Plan BSC-ARC-02-15

Mrsson II



#### 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 Yarbro, 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

G. S. Bodvarsson, 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. Krisha, 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)

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

M. A. Kavchak, NQS, Las Vegas, NV

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

File, NQS, Las Vegas, NV

Stephan Brocoum, DOE/YMSCO, Las Vegas, NV

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

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

J. D. Ziegler, 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-02-15** 

OF THE

BECHTEL SAIC COMPANY, LLC

REPOSITORY DESIGN PROJECT

LAS VEGAS, NEVADA

**JULY 29-AUGUST 2, 2002** 

Prepared by: Cauley Laveluke Date: 6/27/02

Marilyn Kavchak

Audit Team Leader

Approved by: 5/000

Date: 7/2/02

Ram B. Murthy Acting Director

Office of Quality Assurance

**Navarro Quality Services** 

#### 1.0 SCOPE

A team of auditors from the U.S. Department of Energy, Office of Quality Assurance (OQA) will conduct 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 11, *Quality Assurance Requirements and Description* (QARD) document and applicable implementing procedures. The audit team will evaluate the implementation, adequacy, and effectiveness of the activities of the BSC Repository Design Project's support of the Yucca Mountain Site Characterization Project Office (YMSCO).

In addition, a review of the status of any applicable, previously completed identified OCRWM deficiency documents will be included in the scope of this audit to determine the effectiveness of corrective actions.

#### 2.0 AUDIT SCHEDULE

Pre-Audit Team/Observer Meeting 8:30 a.m., July 29, 2002

Pre-Audit Conference 9:00 a.m., July 29, 2002

Audit Activities 9:30 a.m. to 3:45 p.m.

July 29, 2002

8:00 a.m. to 3:45 p.m. July 30-August 1, 2002

8:00 a.m. to 10:30 a.m.

August 2, 2002

Post-Audit Conference 11:00 a.m.

August 2, 2002

There will be a daily OQA Audit Team/Observer meeting at 3:45 p.m. to review audit progress. Beginning on Tuesday, July 30, 2002, there will also be a daily Audit Team Leader/Observer/BSC management meeting 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 formal checklists. Checklists will be developed from the latest available revision of the following documents:

- OCRWM QARD
- OCRWM QA Program Procedures
- BSC Line Procedures

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

- Administrative Procedure 18.3Q, Internal Audit Program
- Administrative Procedure 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 elements as they apply to the activities associated with the YMSCO as follows:

Section 1.0	Organization
Section 2.0	Quality Assurance Program
Section 3.0	Design Control
Section 5.0	Implementing Documents
Supplement I	Software
Supplement V	Control of the Electronic Management of Data

The following QA Program sections were found to be not applicable, since BSC currently has no activities in the area being audited to which these sections apply:

Section 4.0	Procurement Document Control
Section 6.0	Document Control
Section 7.0	Control of Purchased Items and Services
Section 8.0	Identification and Control of Items
Section 9.0	Control of Special Processes
Section 10.0	Inspection
Section 11.0	Test Control
Section 12.0	Control of Measuring and Test Equipment
Section 13.0	Handling, Storage, and Shipping
Section 14.0	Inspection, Test and Operating Status
Section 15.0	Nonconformances
Section 16.0	Corrective Action
Section 17.0	Quality Assurance Records
Section 18.0	Audits

Audit Plan BSC-ARC-02-15 Page 4 of 4

Supplement II Sample Control

Supplement III Scientific Investigation

Supplement IV Field Surveying

Appendix A High-Level Waste Form Production

Appendix B Storage and Transportation
Appendix C Monitored Geologic Repository

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.

## 5.0 AUDIT TEAM MEMBERS

Marilyn A. Kavchak, Navarro Quality Services (NQS)/Audit Team Leader, Las Vegas, NV F. Harvey Dove, NQS/Auditor, Las Vegas, NV James E. Flaherty, NQS/Auditor, Las Vegas, NV Donald J. Harris, NQS/Auditor, Las Vegas, NV Christian M. Palay, NQS/Auditor, Las Vegas, NV

## 6.0 AUDIT CHECKLISTS

BSC-ARC-02-15, Compliance Checklists