



Department of Energy

Washington, DC 20585

QA: QA

MAR 11 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-12 OF BECHTEL SAIC COMPANY, LLC (BSC) IN
LAS VEGAS AND YUCCA MOUNTAIN SITE**

Enclosed is the Surveillance Record, OQA-02-S-12, conducted by representatives of OQA at the BSC Las Vegas, Nevada, and Yucca Mountain Site facilities on February 24-28, 2002.

The purpose of the surveillance was to observe current implementation of the Construction Quality Assurance/Quality Control specification, BAB000000-01717-6300-01400, Revision 4, "Construction Quality Assurance/Quality Control," to determine the extent of current use and review the construction organization's effectiveness for implementation.

The surveillance team determined that the specification is adequately implemented by BSC Project Field Engineers and BSC Quality Control (QC) Engineers. No conditions adverse to quality were identified during the surveillance. One recommendation is noted in the Surveillance Conclusions listed in the report.

The surveillance team recommends that the BSC design organization coordinate design change with the BSC Project Field Engineers and the BSC QC Engineers at the Exploratory Studies Facility prior to the effective date. This would allow the required impact evaluations and development of the QC checklists and preclude a hold on construction activities (see CIRS #2396).

This surveillance is considered complete and closed as of the date of this letter. A response to this surveillance record and any recommendations is not required.

If you have any questions, please contact either James Blaylock at (702) 794-1420 or Christian M. Palay at (702) 794-1486.

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

OQA:JB-0761

Enclosure:
Surveillance Record OQA-02-S-12

*NMSSO
4/10/02*



MAR 11 2002

cc w/encl:

L. H. Barrett, 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. K. Beall, BSC, Las Vegas, NV
S. M. Bennett, BSC, Las Vegas, NV
R. P. Keele, BSC, Las Vegas, NV, M/S 280
D. T. Krishna, BSC, Las Vegas, NV
J. S. Martin, BSC, Las Vegas, NV, M/S 280
D. S. Rhodes, BSC, Las Vegas, NV
E. P. Stroupe, BSC, Las Vegas, NV
L. J. Trautner, BSC, Las Vegas, NV
J. S. Whitcraft, BSC, Las Vegas, NV
N. H. Williams, BSC, Las Vegas, NV
P. V. Auer, NQS, Las Vegas, NV
R. P. Hasson, NQS, Las Vegas, NV
C. M. Palay, 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
B. M. Terrell, DOE/YMSCO, Las Vegas, NV
J. M. Replogle, DOE/YMSCO, Las Vegas, NV

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Surveillance No.
OQA-02-S-12

QA: QA

QUALITY ASSURANCE SURVEILLANCE RECORD
SURVEILLANCE PLAN

1. ORGANIZATION/LOCATION: Bechtel SAIC Company, LLC (BSC) Las Vegas and Yucca Mountain Site	2. SUBJECT: BAB000000-01717-6300-01400, Revision 4, "Construction Quality Assurance/Quality Control"	3. DATE: 2/24-28/02
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4. SURVEILLANCE OBJECTIVE:
Observe current implementation of the Construction Quality Assurance/Quality Control specification.

5. SURVEILLANCE SCOPE: Determine the extent of the specification's current use. Review the construction organization's effectiveness for implementation of the specification.	6. SURVEILLANCE TEAM: Team Leader: <u>Christian M. Palay</u>
	Team Member: _____ _____

7. PREPARED BY: (Surveillance Team Leader) <u>Christian M. Palay</u> Christian M. Palay	DATE: <u>02-22-02</u>	8. CONCURRENCE: (Acting Director, OQA) <u>James Blaylock for</u> Ram Murthy	DATE: <u>2/22/02</u>
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SURVEILLANCE RESULTS

9. BASIS OF EVALUATION / DESCRIPTION OF OBSERVATIONS:

See page 2.

10. SURVEILLANCE CONCLUSIONS:

See page 2.

11. COMPLETED BY: (Surveillance Team Leader) <u>Christian M. Palay</u>	DATE: <u>03-07-02</u>	12. APPROVED BY: (Director, OQA) <u>James Blaylock for</u>	DATE: <u>3/11/02</u>
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9. BASIS OF EVALUATION / DESCRIPTION OF OBSERVATIONS: (Continued)

The following documents provided guidance and requirements for conducting the surveillance:

- a. LP-2.3-OCRWM, Revision 0, ICN 0, *Surveillance*
- b. BAB000000-01717-6300-01400, Revision 4, "Construction Quality Assurance/Quality Control"
- c. LP-CON-002Q-BSC, Revision 0, ICN 2, *Field Impact Engineering Reviews*
- d. AP-10.1Q, Revision 2, ICN 0, *General Quality Control Inspection and Testing*

Personnel contacted during the surveillance:

- a. E. K. (Willie) Williams, BSC Quality Control (QC) Engineer for Yucca Mountain Exploratory Studies Facility (ESF)
- b. Edward F. Fitch, BSC Project Field Engineer for Yucca Mountain ESF
- c. Greg Bates, BSC Project Field Survey Engineer for Yucca Mountain ESF

Activities examined during surveillance:

- a. Controls in place to evaluate changes to design documents relative to their impact on current or planned work.
- b. Documentation of construction activities relative to details of equipment, methods, progress, and sequence of work.
- c. Documentation of inspections and tests performed to ensure compliance with specification requirements.

10. SURVEILLANCE CONCLUSIONS: (Continued)

BSC Project Field Engineers and BSC QC Engineers use LP-CON-002Q-BSC and AP-10.1Q, respectively, to control their impact evaluations on changed design documents. Both procedures reference the Construction Quality Assurance/Quality Control specification and describe an adequate process for evaluating changes to design documents relative to the Contractor's Work Orders (LP-CON-002Q-BSC) and to the QC inspection checklists/procedures (AP-10.1Q).

Work order #13678 adequately captures the required records of construction with the details of equipment, methods, progress and sequence of work. It was confirmed that BSC QC Engineers have performed inspections as required by evidence of QC Inspection and Test Checklist Issue #0625, assigned date 7/5/01.

No conditions adverse to quality were identified during the surveillance.

RECOMMENDATION:

The surveillance team recommends that the BSC design organization coordinate design changes with the BSC Project Field Engineers at the ESF and BSC QC Engineers prior to the effective date. This would allow the completion of the required impact reviews and development of the BSC QC checklist and preclude a hold on construction work. (CIRS #2396)