



Department of Energy

Washington, DC 20585

QA: QA

MAR 11 2002

K. G. Hess
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U.S. DEPARTMENT OF ENERGY OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT OFFICE OF QUALITY ASSURANCE (OQA) ISSUANCE OF SURVEILLANCE RECORD BSC-02-S-09 OF URS GROUP, INC.

Enclosed is the Surveillance Record, BSC-02-S-09, conducted by representatives of OQA at URS Group, Inc.'s facility in Santa Ana, California, on February 19-21, 2002.

The purpose of the surveillance was to evaluate compliance with program and technical procedures applicable to the Technical Professional Services Subcontract Agreement No. 24540-100-PA-00658, and associated Statement of Work, Revision 00, dated May 8, 2001, between Bechtel SAIC Company, LLC (BSC) and URS Group, Inc.

Based on personnel interviews and review of documentation, URS Group, Inc. is meeting contractual and procedural requirements with the exception of conditions adverse to quality identified in the following two Deficiency Reports (DR): DR BSC-02-D-074 identifies data in use that was not obtained directly from the Technical Data Management System as required and not identified by the appropriate Data Tracking Numbers; and DR BSC-02-D-076 identifies calibration documentation, which does not contain all information required by Administrative Procedure 12.1Q, Revision 0, ICN 2, *Control of Measuring and Test Equipment and Calibration Standards*.

The surveillance team recommends that BSC revise the contract to accurately reflect current procedures; since referenced procedures have been deleted or integrated, resulting in designated responsibilities being currently unclear. Further, the use of data identified at this facility, which resulted in DR BSC-02-D074, makes a previous recommendation (see CIRS #2373) even more imperative - since it was identified as an activity being performed at the URS Group, Inc. offices in both Oakland and Santa Ana, California. See CIRS #2395 for the recommendation made from the surveillance team.

If you have any questions, please contact either James Blaylock at (702) 794-1420 or Patrick V. Auer at (702) 794-1353.

James Blaylock
Ram Murthy, Acting Director
Office of Quality Assurance

OQA:JB-0759

Enclosure:

Surveillance Record BSC-02-S-09



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OFFICE OF CIVILIAN
RADIOACTIVE WASTE MANAGEMENT
U.S. DEPARTMENT OF ENERGY
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Surveillance No.
BSC-02-S-09

QA: QA

QUALITY ASSURANCE SURVEILLANCE RECORD
SURVEILLANCE PLAN

1. ORGANIZATION/LOCATION:
URS Group, Inc.
Santa Ana, California

2. SUBJECT:
Waste Handling Building Geotechnical Input,
Seismic Design Basis, and Closeout of Thermal
Testing and Integrated Site Model

3. DATE:
February 19-21, 2002

4. SURVEILLANCE OBJECTIVE:

Evaluate compliance with Program and Technical Procedures applicable to the Technical Services Subcontract, Agreement No. 24540-100-PA-00658, and associated Statement of Work (SOW), Rev. 00, dated 5/8/01, between Bechtel SAIC Company, LLC (BSC) and URS Group, Inc., Denver, Colorado.

5. SURVEILLANCE SCOPE:

Evaluation of Office of Civilian Radioactive Waste Management (OCRWM) Program Procedures detailed in referenced SOW. The surveillance is limited to the seismic and geotechnical related work conducted by URS in Santa Ana, California. Scope includes subcontractor technical effort related to Analysis and Model Report and software development associated with Work Packages 4201226TMM, 4201226TMM, 4601224IMF, 46012221MG, and 4201224UMF.

6. SURVEILLANCE TEAM:

Team Leader:

Patrick V. Auer

Team Member:

Marilyn A. Kavchak

7. PREPARED BY: (Surveillance Team Leader)

Patrick V. Auer
Patrick V. Auer

DATE:

1/15/02

8. CONCURRENCE: (Acting Director, OQA)

James B. Langford Jr.
Ram Morthy

DATE:

1/22/02

SURVEILLANCE RESULTS

9. BASIS OF EVALUATION / DESCRIPTION OF OBSERVATIONS:

(See pages 2 and 3)

10. SURVEILLANCE CONCLUSIONS:

(See page 3)

11. COMPLETED BY: (Surveillance Team Leader)

Patrick V. Auer

DATE

2/28/02

12. APPROVED BY: (Director, OQA)

James B. Langford Jr.

DATE

3/11/02

9. **BASIS OF EVALUATION/DESCRIPTION OF OBSERVATIONS: (Continued)**

1. The following documents provided the guidance and requirements for performing this surveillance:

- OCRWM Line Procedure LP-2.3Q-OCRWM, Revision 0, ICN 0, *Surveillance*
- AP-2.1Q, Revision 2, *Indoctrination and Training of Personnel*
- AP-2.2Q, Revision 1, *Establishment and Verification of Required Education and Experience of Personnel*
- AP-3.11Q, Revision 3, *Technical Reports*
- AP-3.15Q, Revision 3, ICN 1, *Managing Technical Product Inputs*
- AP-2-14Q, Revision 2, *Review of Technical Products and Data*
- AP-5.1Q, Revision 3, *Plan and Procedure Preparation, Review, and Approval*
- AP-6.1Q, Revision 6, ICN 1, *Controlled Distribution*
- AP-12.1Q, Revision 0, ICN 2, *Control of Measuring and Test Equipment and Calibration Standards*
- AP-16.1Q, Revision 4, ICN 1, *Management of Conditions Adverse to Quality*
- AP-17.1Q, Revision 2, ICN 1, *Record Source Responsibilities for Inclusionary Records*
- AP-SI.1Q, Revision 3, ICN 3, *Software Management*
- AP-SIII.1Q, Revision 1, ICN 1, *Scientific Notebooks*
- AP-SIII.3Q, Revision 1, ICN 1, *Submittal and Incorporation of Data to the Technical Data Management System*
- AP-SIII.9Q, Revision 0, *Scientific Analyses*
- AP-SIII.10Q, Revision 0, *Models*
- AP-SV.IQ, Revision 0, ICN 2, *Control of Electronic Management of Information*
- LP-GEO-001-M&O, Revision 0, BSCN 1, *Laboratory Geotechnical Testing of Soil, Rock and Aggregate Samples*

2. Personnel contacted during the surveillance included:

- M. J. Luebbbers, Principal Investigator, URS
- Tom O'Meara, Laboratory Manager, URS

3. Objective evidence and documents listed below were examined during the surveillance at the URS Santa Ana facility for compliance to the Technical Professional Services Subcontract Agreement No. 24540-100-PA-00658, and associated SOW between BSC and URS Group, Inc., Denver Colorado:

- Scientific Notebook (SN) SN-M&O-SCI-026-V1, *Development of Geotechnical Parameters for Geotechnical Investigation of a Potential Waste Handling Building*, assigned to M. J. Luebbbers.

- Calibration records for Mettler and Toledo scales - asset numbers: SM-4800, PM-4000, PM-34 (201, 713, 714). Other records reviewed for verification of Material and Test Equipment (M&TE) identified as: Platform Balance number 114140238, Pressure Gauge number 007848, Pressure Transducer number 007815, Mass Set number 008626, and Load Cell number 007828.

- Datasheets for Triaxial/Hydraulic and Conductivity Tests dated 02/05/01 and 02/06/01, respectively, and associated supporting information.

The above documents and objective evidence were examined during the visit to URS Group, Inc. offices in Santa Ana, California, February 20-21, 2002. Interviews were conducted with URS personnel and a review of the referenced SN was completed to evaluate the effective implementation of subject contract requirements, including data development activities related to foundation parameters for the waste handling building. The implementation of AP-2.1Q and AP-2.2Q was not reviewed since Corrective Action Report (CAR) BSC-02-C-001 was recently issued which addressed the functional manager and job functions as not being identified for subcontract personnel and the training matrix not assigned. However, a draft training matrix outlining personnel identified by URS, Santa Ana as performing work on the Yucca Mountain Project (YMP) at URS was provided to the surveillance team. This information was given to the Quality Assurance Representative assigned to the CAR noted above, along with the name of one individual performing calibrations not listed on the draft matrix.

9. BASIS OF EVALUATION/DESCRIPTION OF OBSERVATIONS: (Continued)

Access to controlled documents was confirmed as available via the BSC Intranet site. The principal investigator was advised that uncontrolled copies of documents, such as procedures, should be properly marked as "uncontrolled" or preferably, discarded after use. The principal investigator was reminded that attachments to the SN should be protected as records in compliance with AP-17.1Q. During the review, it was discovered that preliminary data were in use that was not obtained directly from the Technical Data Management System (TDMS) as required and not identified by the appropriate Data Tracking Numbers (DTN) resulting in a condition adverse to quality (CAQ) noted below.

The surveillance team reviewed a sample of records, including the Lab Test Datasheets, and determined that they were in process of being submitted to the YMP Records Processing Center as one records package. According to the Principal Investigator, all software in use at the facility was exempt from the requirements of AP-SI.1Q.

During a tour of the laboratory, a sample of M&TE was confirmed to be properly tagged and calibrated. A review of corresponding calibration and test records revealed a deficient condition with calibration documentation. Calibration records for three balances did not contain all information required by AP-12.1Q resulting in a CAQ noted below.

Overall, other than the conditions noted and based on the sample reviewed during the surveillance, it was concluded that the contractual and procedural requirements are being implemented satisfactory.

10. SURVEILLANCE CONCLUSIONS: (Continued)

The surveillance revealed that work being conducted at URS, Inc. in Santa Ana deals primarily with the generation of data related to foundation parameters for the waste handling building. Work that germinates in Santa Ana is forwarded to the Oakland office where the conclusions for the development of Analysis and Model Reports associated with the waste handling building, foundation design and flood analysis at Yucca Mountain site are formalized.

DR BSC-02-D-074

A review of the data used in SN-M&O-SCI-026-V1 determined data were used which had not been obtained from the TDMS and were not identified by the appropriate DTNs. Data used is tracked and summarized on page 90 of this SN.

DR BSC-02-D-076

Calibration documentation for three balances used by URS did not contain unique identification of balances being calibrated; procedures (including revision level) used to calibrate the balances; statement of acceptability; and specified range and tolerances; and whether the balances met those tolerances were not identified or documented on the Certification of Calibration.

The standards used were identified and had been calibrated by an approved supplier, Bechtel Nevada.

RECOMMENDATION

The surveillance team recommends that BSC revise the contract to accurately reflect current procedures since referenced procedures have been deleted or integrated resulting in designated responsibilities being currently unclear. Further, the use of data identified at this facility which resulted in the DR noted above, makes the previous recommendation that AP-SIII.3Q be, contractually imposed even more imperative - since it was identified as an activity being performed at the URS, Inc. in both Oakland and Santa Ana. (CIRS #2395)