

**QA: QA**

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

**AUDIT REPORT  
OF THE**

**WEST VALLEY NUCLEAR SERVICES COMPANY**

**AT**

**WEST VALLEY, NEW YORK**

**JANUARY 28-30, 2003**

**Prepared by:** \_\_\_\_\_ **Date:** \_\_\_\_\_  
**Patrick V. Auer**  
**Audit Team Leader**  
**Navarro Quality Services**

**Approved by:** \_\_\_\_\_ **Date:** \_\_\_\_\_  
**R. Dennis Brown**  
**Director**  
**Office of Quality Assurance**

## 1.0 EXECUTIVE SUMMARY

The Office of Civilian Radioactive Waste Management (OCRWM) Office of Quality Assurance (OQA) conducted a compliance-based audit, OQAC-EM-03-01, of the West Valley Nuclear Services Company (WVNSCO) on January 28 - 30, 2003 in West Valley, New York. The OQA audit team determined that WVNSCO is satisfactorily implementing the examined portions of the WVNSCO Quality Assurance (QA) Program. The WVNSCO QA Program was found to be compliant with the DOE/RW-0333P, Revision 12, *Quality Assurance Requirements and Description (QARD)* except for one condition adverse to quality. Overall, the WVNSCO QA Program was determined to be adequate and effective in implementing QARD requirements.

Based on the objective evidence reviewed, the team identified an overall noteworthy practice, and one condition adverse to quality.

The audit team notes and commends the cooperative effort and positive attitude of the U.S. Department of Energy (DOE) Ohio Field Office, West Valley Demonstration Project (OH/WVDP) and WVNSCO personnel.

The condition adverse to quality involved an activity that was not performed in accordance with QARD, Section 7.0, "Control of Purchased Items and Services" and Section 12.0, "Control of Measuring and Test Equipment." The condition is documented in Deficiency Report (DR) EM (O)-03-D-085 and is detailed in Section 5.3 of this report.

In addition, discussions were held regarding the adequacy of documentation for the review of revisions to the QARD and implementing procedures.

## 2.0 SCOPE

The audit team conducted a compliance-based audit of WVNSCO, at the WVDP, in West Valley, New York. The audit team, through interviews of cognizant personnel, reviews of documentation, and evaluation of procedures, assessed the adequacy and effectiveness of implementation of the applicable portions of the OCRWM QARD.

The following QARD Sections were evaluated for the WVNSCO QA Program:

### QARD Sections

1.0	Organization
2.0	QA Program
4.0	Procurement Document Control
5.0	Implementing Documents
6.0	Document Control

7.0	Control of Purchased Items and Services
8.0	Identification and Control of Items
12.0	Control of Measuring and Test Equipment
13.0	Handling, Storage and Shipping
15.0	Nonconformances
16.0	Corrective Action
17.0	QA Records
Supplement I	Software
Supplement V	Control of Electronic Management of Data
Appendix A	High-Level Waste Form Production

### **3.0 AUDIT TEAM**

Patrick V. Auer, Navarro Quality Services (NQS)/Audit Team Leader  
James E. Flaherty, NQS/Auditor Team Leader in Training  
Diane E. Vigue, OQA/Auditor

### **4.0 AUDIT TEAM MEETINGS AND PERSONNEL CONTACTED**

A pre-audit meeting was conducted in the offices of the WVDP in West Valley, New York on Tuesday, January 28, 2003. Daily debriefings were held to apprise WVNSCO management and staff of the progress of the audit and any identified conditions adverse to quality. A post-audit meeting was conducted at the same location on Thursday, January 30, 2003. Personnel contacted during the audit, including those who attended the pre-audit and post-audit meetings, are listed in Attachment 1, "Personnel Interfaces."

### **5.0 SUMMARY OF AUDIT RESULTS**

#### **5.1 Program Effectiveness**

The audit team concluded, based on the objective evidence reviewed, that WVNSCO is adequately and effectively implementing the applicable portions of the QARD.

#### **5.2 Audit Activities**

Attachment 2, "Summary Table of Audit Results" provides results for each QARD Section audited. The details of the audit, including the objective evidence reviewed, are documented in the audit checklist. The completed, approved checklist is maintained as a QA record.

### **5.3 Summary of the Condition Adverse to Quality**

The audit identified one condition adverse to quality, which is documented on DR EM-(O)-03-085. A synopsis of the documented condition adverse to quality is detailed below. The DR has been transmitted to the DOE OH/WVDP Director under a separate letter (OQA:JB-0656).

#### **5.3.1 Deficiency Report**

**EM (O)-03-D-085** – WVNSCO Procedure QM-12, Revision 10, *Measuring and Test Calibrated Equipment Control* does not require measuring and test equipment documentation to include the procedure revision level. Supplier calibration documentation, in several instances, does not contain revision levels. QARD Section 12.2.7.H, requires that the implementing document used in calibration identify the revision level.

WVNSCO Procedures, QP-4.1, Revision 6, *Procurement Document Review*; QP-7.1, Revision 6, *Supplier Evaluation*; and QM-12, exempt original equipment manufacturers of calibrated equipment and calibration standards from being evaluated and qualified in accordance with QP-7.1 and QARD Section 7.2.2. Calibration services and chemical calibration standards suppliers have not been evaluated and qualified in accordance with the QARD.

## **6.0 LIST OF ATTACHMENTS**

Attachment 1, “Personnel Interfaces”

Attachment 2, “Summary Table of Audit Results”

**ATTACHMENT 1  
 PERSONNEL INTERFACES**

Name	Organization	Pre-Audit Meeting	Contacted During Audit	Post-Audit Meeting
Bird, Anne Marie	DOE OH/WVDP	X		X
Bohan, Catherine M.	DOE OH/WVDP			X
Bower, Bryan C.	DOE OH/WVDP	X	X	X
Carter, Robert A.	WVNSCO	X	X	X
Chafin, Lynette E.	DOE OH/WVDP	X		X
Chilson, Lettie J.	WVNSCO	X		X
Cook, David C.	DOE OH/WVDP	X		
Crouthamel, Dave W.	WVNSCO			X
Czyzewski, Robert J.	WVNSCO		X	X
Drobot, Alice	WVNSCO			X
Dundas, Jennifer	DOE OH/WVDP			X
Farchmin, Ronald E.	WVNSCO	X	X	
Fountain, Anthony S.	WVNSCO			X
Garcia, John M.	WVNSCO			X
Gerber, John R.	WVNSCO	X		X
Gibson, Peggy A.	WVNSCO		X	X
Gray, David L.	DOE OH/WVDP	X	X	X
Hunt, William H.	DOE OH/WVDP	X		X
Jackson, Timothy J.	DOE OH/WVDP	X		X
Johnson, Marjorie E.	WVNSCO	X		
Kearney, Lori-Anne E.	WVNSCO	X	X	X
Kocialski, Thomas F.	WVNSCO	X		X
Marek, Joe F.	WVNSCO	X	X	X
Marsh, Dwayne K	WVNSCO		X	
May, Joseph	DOE OH/WVDP	X		X
McGetrick, Lee B	WVNSCO	X		X
Misercola, Anthony J.	DOE OH/WVDP			X
Palmer, Ron A	WVNSCO	X		X
Pritchard, David H.	WVNSCO	X		
Schiffhauer, Carol M.	WVNSCO	X	X	X
Schweickert, Michelle S.	WVNSCO	X	X	X

Name	Organization	Pre-Audit Meeting	Contacted During Audit	Post-Audit Meeting
Steffen, Doug F.	WVNSCO	X		X
Underwood, Sharon A.	WVNSCO		X	
Vaughan, Larry D.	DOE/EM-5	X		X
Weddle, Philip C.	WVNSCO			X
Williams, Alice C.	DOE OH/WVDP	X		X
Wright, Cheryl	WVNSCO		X	

Legend:

DOE/EM

U.S. Department of Energy, Office of Environmental Management

DOE-OH/WVDP

U.S. Department of Energy Ohio Field Office West Valley Demonstration Project

WVNSCO

West Valley Nuclear Services Company

**ATTACHMENT 2**  
**SUMMARY TABLE OF AUDIT RESULTS**

QA Program Section	Implementing Documents	Details (✓) List	Deficiency Reports	Quality Observations	Recommendations	Program Adequacy	Procedure Compliance	Overall
1	WVDP-074, Rev 12	Pages 1-4	N	N	N	SAT	SAT	SAT
2	WVDP-074, Rev. 12 QP 10-3, Rev. 4	Page 5-8	N	N	N	SAT	SAT	SAT
4	QP 4-1, Rev.6	Pages 9-11	N	N	N	SAT	SAT	SAT
5	QM 5, Rev. 6, QP 7-4, Rev 2, WVDP-257, Rev. 8	Pages 12-13	N	N	N	SAT	SAT	SAT
6	WVDP-257, Rev. 8, EP-11-004, EP-5-002	Pages 14-16	N	N	N	SAT	SAT	SAT
7	QP 7-1, Rev. 6	Pages 17-19	<b>EM (O)-03-D-085</b>	N	N	<b>UNSAT</b>	SAT	SAT
8	QM 8, Rev. 4	Pages 20-21	N	N	N	SAT	SAT	SAT
12	QM 12, Rev. 10 SOP 041-00, Rev.6	Pages 22-24	<b>EM (O)-03-D-085</b>	N	N	<b>UNSAT</b>	SAT	SAT
13	QM 13, Rev.6 SOP 068-01,Rev. 1	Pages 25-26	N	N	N	SAT	SAT	SAT
15	QM 15, Rev. 10 QP 15-2, Rev. 3	Pages 27-28	N	N	N	SAT	SAT	SAT
16	WVDP-357, Rev.4	Pages 29-30	N	N	N	SAT	SAT	SAT
17	WV-732, Rev.12	Pages 31-34	N	N	N	SAT	SAT	SAT
SI	SQA-002, 003 and 004 All Revision 0	Pages 35-39	N	N	N	SAT	SAT	SAT

QA Program Section	Implementing Documents	Details (✓) List	Deficiency Reports	Quality Observations	Recommendations	Program Adequacy	Procedure Compliance	Overall
SV	Control of the Electronic Management of Data	40	N/I	N/I	N/I	N/I	N/I	N/I
APP A	EP-3-024, Rev. 3, FC 1 WVDP-257, Rev. 8	Pages 41-42	N	N	N	SAT	SAT	SAT
<b>TOTAL</b>		<b>42</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>-</b>	<b>-</b>	<b>SAT</b>

Legend:        N        None  
                   N/I     Not Implemented  
                   SAT     Satisfies Criteria  
                   UNSAT Does Not Satisfy Criteria