



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

Reply to:  
1050 East Flamingo Rd.  
Suite 319  
Las Vegas, Nevada 89119  
Tel: (702) 388-6125  
FTS: 598-6125

TO: Mr. James E. Kennedy  
FROM: Paul T. Prestholt, Sr. On-Site Licensing Representative  
DATE: February 23, 1988

SUBJECT: NNWSI PROJECT/WMPD VERIFICATION AND CLOSURE OF SDRs  
(WMPD ACTION ITEM #88-927); WMPD EVALUATION OF REECO  
RESPONSES TO THE QA SDR NOS. 074 AND 078 WHICH WERE  
GENERATED AS A RESULT OF WMPD QA AUDIT 87-10 OF REECO (WMPD  
ACTION ITEM #88-926); WMPD QA SDR RESULTING FROM AUDIT  
S-87-1 OF LLNL SUPPORT OF THE NNWSI PROJECT (WMPD ACTION  
ITEM #88-904); WMPD QA CLOSURE OF REECO AFS 86-3-3 RESULTING  
FROM AUDIT 86-3; AMENDMENT TO WMPD QA AUDIT 88-01 OF F&S  
SUPPORT OF THE NNWSI PROJECT; WMPD QA OBSERVATIONS RESULTING  
FROM AUDIT S-87-1 OF LLNL OF THE NNWSI PROJECT

Please find the above-referenced information for your  
files.

PTP:nan

8803010095 880223  
PDR WASTE  
102 DCD

102  
WM-11  
NH03



## Department of Energy

Nevada Operations Office  
P. O. Box 98518  
Las Vegas, NV 89193-8518

FEB 09 1988

Thomas O. Hunter  
Technical Project Officer for NNWSI  
Sandia National Laboratories  
Organization 6310  
P.O. Box 5800  
Albuquerque, NM 87185

NEVADA NUCLEAR WASTE STORAGE INVESTIGATIONS PROJECT/WASTE MANAGEMENT PROJECT  
OFFICE (WMPO) VERIFICATION AND CLOSURE OF STANDARD DEFICIENCY REPORTS (SDRS)  
(WMPO ACTION ITEM #88-927)

A meeting was held on January 7, 1988, at Science Applications International Corporation facilities in Las Vegas, Nevada between representatives of Sandia National Laboratories and WMPO. The purpose of the meeting was to verify the corrective actions necessary to close WMPO SDRs from Audit Report 87-5. A total of eight deficiency documents were reviewed in the course of this meeting. Four of the eight SDRs were closed by WMPO letter, Blaylock to Hunter dated January 20, 1988.

Based on the review performed at this meeting, there was insufficient objective evidence to support closing SDR Nos. 028, 029, and 032 at this time. Revised copies of these SDRs are being returned for your action. Sufficient objective evidence was available for SDR No. 030 and it is considered closed.

If you have any questions, please contact me on FTS 575-8913.

A handwritten signature in cursive script that reads "James Blaylock".

James Blaylock  
Project Quality Manager  
Waste Management Project Office

WMPO:JB-1119

Enclosure:  
SDR Nos. 028, 029, 032

# WMPO STANDARD DEFICIENCY REPORT

N-QA-038  
3/87

132,000

Completed by Originating QA Organization

Aprvl

Completed by Organization in Block 5

Comp. by Orig. QA Org.

1 Date <u>2/2/88</u>		2 Severity Level <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3		Page 1 of 1	
3 Discovered During <u>WMPO Audit 87-5</u>		3a Identified By <u>G. Dymmel / G. Heaney</u>	3b Branch Chief Concurrence Date <u>N/A</u>		4 SDR No. <u>028</u> Rev. <u>1</u>
5 Organization <u>SNL</u>		6 Person(s) Contacted <u>R. Stinebaugh, R. Hill, C. Subramanian</u>		7 Response Due Date is <u>20 Working Days from</u> Date of Transmittal	
8 Requirement (Audit Checklist Reference, if Applicable) 1) See original SDR 2) Corrective actions must be completed by effective dates specified or extension obtained.					
9 Deficiency 1) See original SDR 2) Non responsive to committed corrective action within specified time.					
10 Recommended Action(s): <input type="checkbox"/> Remedial <input checked="" type="checkbox"/> Investigative <input checked="" type="checkbox"/> Corrective 1) Complete committed corrective actions. 2) Determine cause for "non responsiveness" to committed corrective actions and corrective action to preclude recurrence.					
11 QAE/Lead Auditor Date <u>W. Caldwell FEB 03 1988</u>		12 Branch Manager <u>2/3/88</u>		13 Project Quality Mgr. Date <u>James Blaylock 2/3/88</u>	
14 Remedial/Investigative Action(s)					
15 Effective Date _____					
16 Cause of the Condition & Corrective Action to Prevent Recurrence					
17 Effective Date _____					
18 Signature/Date					
19 Response <input type="checkbox"/> Accept <input type="checkbox"/> Amended Response <input type="checkbox"/> Reject		QAE/Lead Auditor/Date		Branch Manager/Date	
20 Amended Response <input type="checkbox"/> Accept <input type="checkbox"/> Reject		QAE/Lead Auditor/Date		Branch Manager/Date	
21 Verifi- cation <input type="checkbox"/> Satisfactory <input type="checkbox"/> Unsatisfactory		QAE/Lead Auditor/Date		Branch Manager/Date	
22 Remarks					
23 QA CLOSURE		QAE/Lead Auditor/Date		Branch Manager/Date	
				PQM/Date	

ENCLOSURE

# WA 0 STANDARD DEFICIENCY REPORT

N-QA-038  
3/87

Completed by Organization in Block 5

1 Date <b>6/5/87</b>	2 Severity Level <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3		Page <b>1</b> of <b>2</b>
3 Discovered During <b>WMPD Audit 87-5</b>	3a Identified By <b>G. Hymmet/ G. Heaney</b>	3b Branch Chief Concurrence Date <b>N/A</b>	4 SDR No. <b>028</b> Rev. <b>0</b>
5 Organization <b>SNL</b>	6 Person(s) Contacted <b>R. Stinebaugh, R. Hill, C. Subramanian</b>		7 Response Due Date is <b>20 Working Days from Date of Transmittal</b>
8 Requirement (Audit Checklist Reference, if Applicable) <b>Sandia National Laboratories NNWSI Quality Assurance Program Plan Rev. A, Para. 5.1.2, states in part "Detailed technical documents will be (cont'd)"</b>			
9 Deficiency <b>Contrary to the above requirement, SNL Department Operating Procedures (DOP) 3-6 "Design Change Control" and DOP 3-9 "Interface Control of NNWSI (cont'd)"</b>			
10 Recommended Action(s): <input checked="" type="checkbox"/> Remedial <input type="checkbox"/> Investigative <input checked="" type="checkbox"/> Corrective <b>1. Revise DOPs 3-6 and 3-9 to reference and include the processing of SOP-03-05 generated documents. (cont'd)</b>			

11 QAE/Lead Auditor Date <b>24 JUN 24 1987</b>	12 Branch Manager Date <i>[Signature]</i> <b>7/15/87</b>	13 Project Quality Mgr. Date <b>James Blanford 7/15/87</b>
---	---	---

14 Remedial/Investigative Action(s)  
**NNWSI SOP 03-05 will be evaluated for its impact on SNL NNWSI QA implementing procedures related to design and interface control. The affected procedures will be appropriately revised, if necessary. Responsible party is R. R. Hill**

15 Effective Date **9/30/87**

16 Cause of the Condition & Corrective Action to Prevent Recurrence (Rev. 1)  
**If required due to possible revisions to procedures, the effects and details of those revisions will be disseminated to personnel involved with ESF design via a training vehicle to be determined. The cause of this situation was simply that, between receipt of SOP-03-05 and the audit visit, this organization had not evaluated the SOP for its impact on our procedures, due to work on the CDR and other activities.**

17 Effective Date **10/30/87**

18 Signature/Date  
*[Signature]* **5/27/87 for Tom** Thomas O. Hunter, Manager  
NNWSI Project Department

19 Response	<input checked="" type="checkbox"/> Accept <input type="checkbox"/> Reject	<input type="checkbox"/> Amended Response	QAE/Lead Auditor/Date <b>SA Caldwell 15 Sept 87</b>	Branch Manager/Date <b>[Signature] 9/16/87</b>
20 Amended Response	<input type="checkbox"/> Accept <input type="checkbox"/> Reject		QAE/Lead Auditor/Date	Branch Manager/Date
21 Verification	<input type="checkbox"/> Satisfactory <input type="checkbox"/> Unsatisfactory		QAE/Lead Auditor/Date	Branch Manager/Date

22 Remarks

23 QA CLOSURE	QAE/Lead Auditor/Date	Branch Manager/Date	PQM/Date
---------------	-----------------------	---------------------	----------



SDR No. 028

Rev. 0

Page 2 of 2

Requirement (cont'd)

developed and contain instructions for the actual performance of activities that include but are not limited to design, testing, experiments, and analysis (refer to audit checklist item T-4).

Deficiency (cont'd)

Engineering Design" do not make reference to the NNWSI Standard Operations Procedure SOP-03-05 "ESF Project Interface Control Procedure." The DOPs do not address the processing and approvals within SNL of ESF Engineering Change Requests which are generated in accordance with SOP-03-05.

The SOP-03-05 is a procedure used by the ESF Project group to establish and implement interface control of ESF design changes between NNWSI Project participants. SNL would be sent ESF Engineering Change Requests for evaluation and review for impact on SNL surface and subsurface designs.

Recommended Actions (cont'd)

2. Reinstruct appropriate personnel to the revised procedures.

# WMPO STANDARD DEFICIENCY REPORT

N-QA-038  
3/87

33900  
Completed by Originating QA Organization  
Completed by Organization in Block 5  
Comp. by Orig. QA Org.

1 Date <u>2/2/88</u>		2 Severity Level <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3		Page 1 of 1	
3 Discovered During WMPO Audit 87-5		3a Identified By G: Dymme/ G: Reaney	3b Branch Chief Concurrence Date N/A		4 SDR No. <u>029</u> Rev. <u>1</u>
5 Organization SNL		6 Person(s) Contacted R. Stinebaugh		7 Response Due Date is 20 Working Days from Date of Transmittal	
8 Requirement (Audit Checklist Reference, if Applicable) 1) See original SDR 2) Corrective actions must be completed by effective dates specified or extension obtained.					
9 Deficiency 1) See original SDR 2) Non responsive to committed corrective action within specified time.					
10 Recommended Action(s): <input type="checkbox"/> Remedial <input checked="" type="checkbox"/> Investigative <input checked="" type="checkbox"/> Corrective 1) Complete committed corrective actions. 2) Determine cause for "non responsiveness" to committed corrective actions and corrective action to preclude recurrence.					
11 QAE/Lead Auditor Date <i>J. Howell</i> FEB 03 1988		12 Branch Manager Date <i>M. Key</i> 2/3/88		13 Project Quality Mgr. Date <i>James Blaylock</i> 2/3/88	
14 Remedial/Investigative Action(s)				15 Effective Date _____	
16 Cause of the Condition & Corrective Action to Prevent Recurrence				17 Effective Date _____	
18 Signature/Date					
19 Response		<input type="checkbox"/> Accept <input type="checkbox"/> Amended Response <input type="checkbox"/> Reject		QAE/Lead Auditor/Date	Branch Manager/Date
20 Amended Response		<input type="checkbox"/> Accept <input type="checkbox"/> Reject		QAE/Lead Auditor/Date	Branch Manager/Date
21 Veri- fication		<input type="checkbox"/> Satisfactory <input type="checkbox"/> Unsatisfactory		QAE/Lead Auditor/Date	Branch Manager/Date
22 Remarks					
23 QA CLOSURE		QAE/Lead Auditor/Date	Branch Manager/Date	PQM/Date	

ENCLOSURE

# WMPD STANDARD DEFICIENCY REPORT

N-DA-038  
3/87

Completed by Originating QA Organization

1 Date <b>6/5/87</b>		2 Severity Level <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3		Page 1 of 2	
3 Discovered During WMPD Audit R7-5		3a Identified By G. Heaney		3b Branch Chief Concurrence Date N/A	
4 Organization SNL		5 Person(s) Contacted R. Stinebaugh		6 SDR No. 029 Rev. 0	
7 Response Due Date is 20 Working Days from Date of Transmittal					
8 Requirement (Audit Checklist Reference, if Applicable) SNP-02-02, "Assignment of QA Levels to NNWSI Activities and Items," Rev. 1, Sec. 5.1.2, requires in part that once assigned, the QA level for a (cont'd)					
9 Deficiency Contrary to this requirement WRS subtask 1.2, "Placement Orientations," was approved by Design Investigation Memo (DIM) 102 (2/19/87) as a QA (cont'd)					
10 Recommended Action(s): <input type="checkbox"/> Remedial <input checked="" type="checkbox"/> Investigative <input checked="" type="checkbox"/> Corrective 1. Review all DIMs issued and determine if QA level is consistent with level assigned to related WRS or Modified Work Plan. (cont'd)					

Aprvl.

11 QAE/Lead Auditor Date <i>R. Caldwell</i> 24 1987	12 Branch Manager Date <i>Thomas O. Hunter</i> 7/15/87	13 Project Quality Mgr. Date James Blaylock 7/15/87
--	---	--

Completed by Organization in Block 5

14 Remedial/Investigative Action(s) A request to revise the QA Level Assignment will be submitted to redesignate the work specified by DIM 102 as QA Level 3 by September 11, 1987. Responsible party: R. E. Stinebaugh.		15 Effective Date 9/11/87
16 Cause of the Condition & Corrective Action to Prevent Recurrence (Rev. 1) a. All DIMs will be reviewed for consistency of QA levels in the DIMS, with QA level assignments (QA Coordinator, by September 11, 1987). b. Based on result of a., revise other DIMs, if necessary (responsible Task Leaders).		17 Effective Date 9/30/87
18 Signature/Date <i>Thomas O. Hunter</i> 8-28-87		Thomas O. Hunter, Manager NNWSI Project Department

Comp. by Orig. QA Org.

19 Response <input checked="" type="checkbox"/> Accept <input type="checkbox"/> Amended Response	QAE/Lead Auditor/Date <i>R. Caldwell</i> 15 Sept 87	Branch Manager/Date <i>Thomas O. Hunter</i> 9/15/87
20 Amended Response <input type="checkbox"/> Accept <input type="checkbox"/> Reject	QAE/Lead Auditor/Date	Branch Manager/Date
21 Verification <input type="checkbox"/> Satisfactory <input type="checkbox"/> Unsatisfactory	QAE/Lead Auditor/Date	Branch Manager/Date
22 Remarks		

23 QA CLOSURE	QAE/Lead Auditor/Date	Branch Manager/Date	PQM/Date	ENCLOSURE
---------------	-----------------------	---------------------	----------	-----------



**MPO STANDARD DEFICIENCY REPORT  
CONTINUATION SHEET**

N-QA-031  
10/86

SDR No. 029

Rev. 0

Page 2 of 2

Requirement (cont'd)

particular activity or item will be applied by all NNWSI Project participating organizations and any NTS support contractors who are involved in the activity. (Refer to audit checklist Item No. T-8)

Deficiency (cont'd)

Level III activity. This is inconsistent with the OA Level II designation given to the parent WRS 1.2.4.3.

Recommended Actions (cont'd)

2. Revise DIM 102 under approved procedures to the required QA Level II.
3. SNL to verify with subcontractors that work will be completed to OA Level II as specified by revised DIM 102.
4. Revise any other DIMs identified by the above review as being inconsistent.
5. Determine and report impact (if any) on both inhouse and subcontractor activities.
6. Determine root cause for inconsistent assignment of QA Levels to DIMs. Provide and document training given to preclude recurrence.

Condition & Corrective Action (cont'd) (Rev. 1)

- c. Based on result of a., determine impact of inconsistent QA levels (responsible Task Leaders and QA).
- d. The cause of this condition was lack of understanding on the part of the DIM author of the requirement stated in 8, above, and his confusion about how to control preliminary, scoping activities (based on a policy statement by the Project Quality Manager). This has all been clarified to the individual involved. If the result of 16a, above, indicates the need, more widespread training will be conducted.

ENCLOSURE

# WMPO STANDARD DEFICIENCY REPORT

N-QA-038  
3/87

3390  
 Completed by Originating QA Organization  
 Completed by Organization in Block 5  
 Comp. by Orig. QA Org.

1 Date 2/2/88	2 Severity Level <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3		Page 1 of 1
3 Discovered During WMPO Audit 87-5	3a Identified By G. Dymmel/ G. Heaney	3b Branch Chief Concurrence Date N/A	4 SDR No. 032 Rev. 1
5 Organization SNL	6 Person(s) Contacted R. Richards	7 Response Due Date is 20 Working Days from Date of Transmittal	
8 Requirement (Audit Checklist Reference, if Applicable) 1) See original SDR 2) Corrective actions must be completed by effective dates specified or extension obtained.			
9 Deficiency 1) See original SDR 2) Non responsive to committed corrective action within specified time.			
10 Recommended Action(s): <input type="checkbox"/> Remedial <input checked="" type="checkbox"/> Investigative <input checked="" type="checkbox"/> Corrective 1) Complete committed corrective actions. 2) Determine cause for "non responsiveness" to committed corrective actions and corrective action to preclude recurrence.			
11 QAE/Lead Auditor Date <i>R. Heaney</i> FEB 03 1988	12 Branch Manager Date <i>W. Keegan</i> 2/3/88	13 Project Quality Mgr. Date <i>James Blaylock</i> 2/3/88	
14 Remedial/Investigative Action(s)		15 Effective Date _____	
16 Cause of the Condition & Corrective Action to Prevent Recurrence		17 Effective Date _____	
18 Signature/Date			
19 Response	<input type="checkbox"/> Accept <input type="checkbox"/> Amended Response <input type="checkbox"/> Reject	QAE/Lead Auditor/Date	Branch Manager/Date
20 Amended Response	<input type="checkbox"/> Accept <input type="checkbox"/> Reject	QAE/Lead Auditor/Date	Branch Manager/Date
21 Veri- fication	<input type="checkbox"/> Satisfactory <input type="checkbox"/> Unsatisfactory	QAE/Lead Auditor/Date	Branch Manager/Date
22 Remarks			
23 QA CLOSURE	QAE/Lead Auditor/Date	Branch Manager/Date	PQM/Date

ENCLOSURE

# WMPO STANDARD DEFICIENCY REPORT

N-QA-038  
3/87

Completed by Originating QA Organization

1 Date <u>6/5/87</u>		2 Severity Level <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3		Page <u>1</u> of <u>2</u>	
3 Discovered During <u>WMPO Audit 87-5</u>		3a Identified By <u>G. Heaney</u>		3b Branch Chief Concurrence Date <u>N/A</u>	
5 Organization <u>SNL</u>		6 Person(s) Contacted <u>R. Richards</u>		7 Response Due Date is <u>20 Working Days from</u> Date of Transmittal	
8 Requirement (Audit Checklist Reference, if Applicable) <u>1. SNL NNWSI QAPP, Rev. A, para. 5.1, states in part "all activities affecting quality on the NNWSI Project will be performed utilizing approved (cont'd)</u>					
9 Deficiency <u>Contrary to the above requirements, the Calibration Lab at SNL does not utilize calibration procedures which are reviewed or approved by SNL NNWSI (cont'd)</u>					
10 Recommended Action(s): <input checked="" type="checkbox"/> Remedial <input checked="" type="checkbox"/> Investigative <input type="checkbox"/> Corrective <u>1. Review to determine if SNL has performed Quality Level I and II work with calibrated instruments for which traceability to the National (cont'd)</u>					

Appl.

11 QAE/Lead Auditor Date <u>JUN 24 1987</u>	12 Branch Manager Date <u>7/15/87</u>	13 Project Quality Mgr. Date <u>7/15/87</u>
--	--	--

Completed by Organization in Block 5

14 Remedial/Investigative Action(s) <u>Past and current work will be reviewed to determine if any Q Level I or II work has been done wherein measurements have been taken and data recorded using SNL-calibrated devices. If so, an evaluation will be completed to determine the impact of this situation. Issuance of NCRs which document individual data or types of data which have resulted from SNL-calibrated devices will complete this action. Responsible party is T. E. Blejwas</u>		15 Effective Date <u>10/15/87</u>
16 Cause of the Condition & Corrective Action to Prevent Recurrence <u>The cause of this situation lies in the DOE decision to utilize the same assets - the National Laboratories - to perform work on both the OCRWM Program, which requires open public and project access to records because of licensability concerns, and the nuclear weapons program, which precludes public access to records due to security needs. This dilemma, which in fact affects areas (cont'd)</u>		

Comp. by Orig. QA Org.

18 Signature/Date <u>For Killian 8/27/87 for T&amp;H</u>		Thomas O. Hunter, Manager NNWSI Project Department	
19 Response	<input checked="" type="checkbox"/> Accept <input type="checkbox"/> Reject	QAE/Lead Auditor/Date <u>J.A. Killian 15 Sept 87</u>	Branch Manager/Date <u>W.R. Kay 9/16/87</u>
20 Amended Response	<input type="checkbox"/> Accept <input type="checkbox"/> Reject	QAE/Lead Auditor/Date	Branch Manager/Date
21 Verifi- cation	<input type="checkbox"/> Satisfactory <input type="checkbox"/> Unsatisfactory	QAE/Lead Auditor/Date	Branch Manager/Date
22 Remarks			

23 QA CLOSURE	QAE/Lead Auditor/Date	Branch Manager/Date	PQM/Date
---------------	-----------------------	---------------------	----------



WMPO STANDARD DEFICIENCY REPORT  
CONTINUATION SHEET

N-QA-038  
10/86

SDR No. 032

Rev. 0

Page 2 of 2

Requirement (cont'd)

written procedures."

2. SNL NNWSI OAPP, Rev. A, Para. 12.2, requires that "all measuring and test equipment calibration will be accomplished using written procedures and will be traceable either to the National Bureau of Standards or to other nationally recognized physical standards."

Deficiency (cont'd)

personnel in accordance with the SNL NNWSI OAPP, Rev. A, and implementing procedures. Additionally, records indicating traceability to the National Bureau of Standards or other nationally recognized physical standards are not available for review and audit by NNWSI OA personnel. Therefore, the calibration status of measuring and testing instruments is indeterminant.

Recommended Action (cont'd)

Bureau of Standards or to other nationally recognized physical standards cannot be determined.

2. Provide a corrective action plan to resolve above deficiencies.

Condition & Corrective Action (cont'd)

beyond calibration control, cannot be fully resolved at the SNL level. Upon receipt of guidance concerning calibration control from the WMPO, SNL will pursue a course of action consistent with that guidance.

ENCLOSURE



## Department of Energy

Nevada Operations Office

P. O. Box 98518

Las Vegas, NV 89193-8518

FEB 09 1988

Robert F. Pritchett  
Technical Project Officer for NNWSI  
Reynolds Electrical &  
Engineering Co., Inc.  
Mail Stop 615  
P.O. Box 98521  
Las Vegas, NV, NV 89193-8521

WASTE MANAGEMENT PROJECT OFFICE (WMPO) EVALUATION OF REYNOLDS ELECTRICAL & ENGINEERING CO., INC. (REECO) RESPONSES TO THE QUALITY ASSURANCE (QA) STANDARD DEFICIENCY REPORTS (SDR) NOS. 074 AND 078 WHICH WERE GENERATED AS A RESULT OF WMPO QA AUDIT 87-10 OF REECO (WMPO ACTION ITEM #88-926)

References: (1) Letter, Gong to Blaylock, dtd. 10/15/87  
(2) Letter, Blaylock to Gong, dtd. 12/1/87  
(3) Letter, Pritchett to Blaylock, dtd. 1/6/88

The WMPO has evaluated the REECO amended response to SDR No. 074, Rev. 0 and the response to SDR No. 078, Rev. 1 which were requested by the WMPO (see reference 2). A summary of the evaluations for each SDR is listed below. SDR 078, Rev. 1, requires an amended response. You are requested to provide this information to my office within 20 working days of the date of this letter. You are asked to concurrently send a copy of the amended response to Juanita J. Brogan of Science Applications International Corporation, Las Vegas, Nevada.

### SDR-074, Rev. 0 (Amended Response)

The amended response submitted is acceptable. The SDR will be closed upon satisfactory verification of committed corrective actions.

### SDR-078, Rev. 1

The response provided indicates that the possibility of obtaining objective evidence of required audit participation for Mr. Lykens is remote. Therefore, Mr. Lykens will be required to be recertified upon his documented participation in the required number of audits.

FEB 09 1988

Robert F. Pritchett

-2-

At this time, REECO does not have a qualified Nevada Nuclear Waste Storage Investigations (NNWSI) Project lead auditor to perform NNWSI Project audits in which Mr. Lykens may participate. The WMPO proposes that Mr. Lykens fulfill the qualification requirements for an NNWSI Project Quality Assurance (QA) lead auditor by participating in REECO weapons program audits which would qualify as a nuclear audit. Participation in a WMPO or other NNWSI Project participant audit (contingent on appropriate management concurrence) could also be considered. Once Mr. Lykens has obtained documentation of the required number of audits to become an NNWSI Project QA lead auditor, he will be able to be certified in accordance with the REECO QA Program.

REECO is asked to submit an amended response to the WMPO providing information regarding acceptance of this proposed corrective action plan. If acceptable, please provide a preferred corrective action plan and a proposed corrective action completion date for when compliance with the qualification and certification requirements for NNWSI Project QA lead auditor will be met and documented for Mr. Lykens.

If you have any further questions, please contact me at FTS 575-8913.

*James Blaylock*

James Blaylock  
Project Quality Manager  
Waste Management Project Office

WMPO:JB-1118

cc:

V. J. Cassella, HQ (RW-222) FORS  
J. P. Knight, HQ (RW-24) FORS  
M. M. Azhikakath, REECO, Mercury, NV  
A. K. Fowkes, REECO, Mercury, NV  
M. A. Fox, REECO, Mercury, NV  
S. H. Klein, SAIC, Las Vegas, NV  
W. R. Kazor, SAIC, Las Vegas, NV  
J. J. Brogan, SAIC, Las Vegas, NV  
Gerard Heaney, SAIC, Las Vegas, NV  
B. A. Wozniak, SAIC, Las Vegas, NV  
P. T. Prestholt, NRC, Las Vegas, NV  
R. W. Gray, MED, NV  
J. R. Rinaldi, QAD, NV  
V. F. Witherill, NTSO, NV  
A. R. Veloso, NTSO, NV  
L. P. Skousen, WMPO, NV  
M. B. Blanchard, WMPO, NV  
W. R. Dixon, WMPO, NV  
M. P. Kunich, WMPO, NV  
R. E. Monks, WMPO, NV





## Department of Energy

Nevada Operations Office  
P. O. Box 98518  
Las Vegas, NV 89193-8518

FEB 08 1988

Lawrence D. Ranspott  
Technical Project Officer for NNWSI  
Lawrence Livermore National Laboratory  
Mail Stop L-204  
P.O. Box 808  
Livermore, CA 94550

WASTE MANAGEMENT PROJECT OFFICE (WMPO) QUALITY ASSURANCE STANDARD DEFICIENCY REPORTS (SDR) RESULTING FROM AUDIT S-87-1 OF LAWRENCE LIVERMORE NATIONAL LABORATORY (LLNL) SUPPORT OF THE NEVADA NUCLEAR WASTE STORAGE INVESTIGATIONS PROJECT (WMPO ACTION ITEM #88-904)

Reference: Letter, Blaylock to Ranspott, dtd. 1/7/88

Please be advised that the above referenced letter incorrectly stated that SDR No. 038, Revision 1, was closed. In fact, Revision 0 to SDR No. 038 is closed; Revision 1 is still pending. A response from LLNL is needed to close the SDR.

If you have any questions, please call me at FTS 575-8913.

A handwritten signature in cursive script that reads "James Blaylock".

James Blaylock  
Project Quality Manager  
Waste Management Project Office

WMPO:JB-1097

cc:

V. J. Cassella, HQ (RW-222) FORS  
J. P. Knight, HQ (RW-24) FORS  
J. J. Dronkers, LLNL, Livermore, CA  
L. B. Ballou, LLNL, Livermore, CA  
S. H. Klein, SAIC, Las Vegas, NV  
W. R. Kazor, SAIC, Las Vegas, NV  
C. M. Thompson, SAIC, Las Vegas, NV  
J. J. Brogan, SAIC, Las Vegas, NV  
B. A. Vozniak, SAIC, Las Vegas, NV  
G. D. Dymmel, SAIC, Las Vegas, NV  
P. T. Prestholt, NRC, Las Vegas, NV  
F. L. Ramirez, SAN  
R. W. Gray, MED, NV  
J. R. Rinaldi, QAD, NV  
L. P. Skousen, WMPO, NV  
M. P. Kunich, WMPO, NV



## Department of Energy

Nevada Operations Office  
P. O. Box 98518  
Las Vegas, NV 89193-8518

FEB 08 1988

Robert F. Pritchett  
Technical Project Officer for NNWSI  
Reynolds Electrical &  
Engineering Co., Inc.  
Mail Stop 615  
P.O. Box 98521  
Las Vegas, NV 89193

WASTE MANAGEMENT PROJECT OFFICE (WMPO) QUALITY ASSURANCE (QA) CLOSURE OF  
REYNOLDS ELECTRICAL & ENGINEERING CO., INC. (REECO) AUDIT FINDING SHEET (AFS)  
86-3-3 RESULTING FROM AUDIT 86-3

WMPO QA has determined that REECO cannot provide further action to resolve the  
problem identified by AFS 86-3-3 regarding calibration and proper traceability  
to a National Bureau of Standards source.

The WMPO recognizes that REECO personnel are not permitted to verify the Sandia  
National Laboratories Primary Standards Laboratory file number for traceability  
to NBS. Therefore, AFS 86-3-3 is considered closed. Enclosed is a copy of the  
closed AFS for your information. The concern continues to be pursued for an  
acceptable solution on the project office level. Standard Deficiency Report  
(SDR) No. 102 has been generated to formally identify and track this problem  
within the WMPO SDR system.

If you have any questions, please contact me at 295-8913.

*James Blaylock*  
James Blaylock  
Project Quality Manager  
Waste Management Project Office

WMPO:JB-1099

Enclosure:  
AFS 86-3-3



# WMPO AUDIT FINDING SHEET (AFS)

N-QA  
6/85

(To be used for all AFSs with added sheets as required)

Audit Finding No. 863-3 Audited Checklist Reference 86-3-1 Item 12.0-3

Audited Organization REECO

Organization Unit Quality Assurance Activity Operations

Response Assigned To A. K. Fowkes Reported By (Auditor) F. J. Ruth

Requirement (Cite) REECO QA Procedures NQP 12.0, Paragraph 2d, and Company Procedure

4.7.1, Paragraph A - Requires that measuring and test equipment shall be calibrated

against certified equipment having known valid relationships to the National Bureau of Standards or other recognized standard.

Finding Equipment located at the REECO Calibration Laboratory had calibration records

available which were not traceable to the National Bureau of Standards or other

recognized standards.

Approved By LA [Signature] Response Due Date 30 working days after receipt

Approved By WMPO/NV James Blaylock Date 6/2/86

Response (To be completed by audited organization) See attached response sheet.

Implementation Date July 18, 1986 Submitted By A.K. Fowkes Date 7/15/86

To be completed by lead auditor (LA) and reviewed by WMPO/NV

Corrective Action Response Reviewed by LA/Date [Signature] 9/10/86

Satisfactory  Unsatisfactory Reviewed by WMPO/NV/Date James Blaylock 9/10/86

Corrective Action Implementation Reviewed by LA/Date Dan Klimes 1/27/88

Satisfactory  Unsatisfactory Reviewed by WMPO/NV/Date \_\_\_\_\_

Reaudit Date N/A

Remarks Reference SDR # 102 (WMPO)

AFS 863-3 has been converted to SDR 102

Audit Finding Closed  LA Concurrence/Date Dan Klimes 1/27/88

Reference and Number(s) for unsatisfactory reaudit \_\_\_\_\_

FINDING 863-3

Equipment located at the REECO Calibration Laboratory had calibration records available; however, they were not traceable to the National Bureau of Standards or other recognized standards.

RESPONSE

The equipment and associated records questioned by the auditors were those calibrated by the Sandia Primary Standards Laboratory operated on behalf of the DOE through the Albuquerque Operations Office. The calibration records in question are typical of certificates furnished by that Primary Standards Laboratory.

Although those certificates do not include a specific statement attesting to NBS traceability, nor do they carry the specific NBS test number relating to the equipment by which our standards were calibrated, they do carry a specific Sandia file number on each record. Discussions with cognizant staff of the Primary Laboratory confirmed that records on file (by certificate file number) at the Primary Laboratory do provide the requisite traceability. These individuals also indicated that the Sandia Primary Laboratory files are open and available for DOE/NV review as further assurance of traceability, and that their system is also subject to periodic audit for this requirement.

We have submitted a letter to Sandia requesting the identification of the calibrating equipment, the NBS number by which the calibrating equipment was certified, and a statement to the effect that our equipment is traceable to the National Bureau of Standards through the specific NBS number.



## Department of Energy

Nevada Operations Office  
P. O. Box 98518  
Las Vegas, NV 89193-8518

**FEB 18 1988**

Richard L. Bullock  
Technical Project Officer for NNWSI  
Fenix & Scisson, Inc.  
Mail Stop 514  
P.O. Box 93265  
Las Vegas, NV 89193-3265

**AMENDMENT TO WASTE MANAGEMENT PROJECT OFFICE (WMPO) QUALITY ASSURANCE (QA)  
AUDIT 88-01 OF FENIX & SCISSON, INC. (F&S) SUPPORT OF THE NEVADA NUCLEAR WASTE  
STORAGE INVESTIGATIONS PROJECT**

**Reference: Letter, Blaylock to Bullock, dtd. 2/2/88**

The purpose of this letter is to revise the scope and schedule of the proposed audit outlined in the referenced letter.

Current plans call for us to visit not only your Tulsa facilities, but also the Las Vegas and Nevada Test Site, Mercury, Nevada locations as well. There will still be only one preaudit and postaudit conference. The postaudit conference is now tentatively scheduled for 10 a.m. on March 2, 1988, at your Las Vegas offices. Individual entrance and exit meetings are planned for each location and will be detailed at the preaudit conference.

The audit will now encompass the following areas:

- \* QA Program - Elements
  - 2.0 Quality Assurance Program
  - 3.0 Scientific Investigation and Design Control
  - 4.0 Procurement Document Control
  - 5.0 Instructions, Procedures and Drawings
  - 6.0 Document Control
  - 7.0 Control of Purchased Items and Services
  - 16.0 Corrective Actions
  - 17.0 Records
  - 18.0 Audits

- \* Technical Areas - Exploratory Shaft Facility Design Activities

FEB 18 1982

Richard L. Bullock

-2-

The team will consist of:

Henry H. Caldwell, Audit Team Leader, SAIC, Las Vegas, NV  
Robert W. Clark, Observer, OGR (Weston), Washington, D.C.  
Roland F. Cote, Auditor, SAIC, Las Vegas, NV  
James Donnelly, Observer, NRC, Washington, D.C.  
George D. Dymmel, Technical Specialist, SAIC, Las Vegas, NV  
Gerard Heaney, Auditor, SAIC, Las Vegas, NV  
Daniel Klimas, Auditor, SAIC, Las Vegas, NV  
Royce E. Monks, Observer, DOE/WMPO, Las Vegas, NV  
Susan Zimmerman, Observer, State of Nevada, Carson City, NV

If you have any questions, please contact Henry H. Caldwell at 295-8740.

*James Blaylock*

James Blaylock  
Project Quality Manager  
Waste Management Project Office

WMPO:JB-1182

cc:

V. J. Cassella, HQ (RW-222) FORS  
J. P. Knight, HQ (RW-24) FORS  
R. R. Loux, State of Nevada, Carson City, NV  
Susan Zimmerman, State of Nevada, Carson City, NV  
R. W. Clark, Weston, Washington, D.C.  
J. A. Cross, F&S, Las Vegas, NV  
M. J. Regenda, F&S, Mercury, NV  
S. H. Klein, SAIC, Las Vegas, NV  
W. R. Kazor, SAIC, Las Vegas, NV  
H. H. Caldwell, SAIC, Las Vegas, NV  
Gerard Heaney, SAIC, Las Vegas, NV  
G. D. Dymmel, SAIC, Las Vegas, NV  
R. F. Cote, SAIC, Las Vegas, NV  
B. A. Wozniak, SAIC, Las Vegas, NV  
P. T. Prestholt, NRC, Las Vegas, NV  
James Donnelly, NRC, Washington, D.C.   
V. F. Witherill, NTSO, NV  
A. R. Veloso, NTSO, NV  
R. W. Gray, MED, NV  
J. R. Rinaldi, QAD, NV  
L. P. Skousen, WMPO, NV  
M. P. Kunich, WMPO, NV  
R. E. Monks, WMPO, NV



**Department of Energy**

Nevada Operations Office

P. O. Box 98518

Las Vegas, NV 89193-8518

**FEB 18 1988**

Lawrence D. Ramspott  
Technical Project Officer for NNWSI  
Lawrence Livermore National Laboratory  
Mail Stop L-204  
P.O. Box 808  
Livermore, CA 94550

**WASTE MANAGEMENT PROJECT OFFICE (WMPO) QUALITY ASSURANCE OBSERVATIONS RESULTING FROM AUDIT S-87-1 OF LAWRENCE LIVERMORE NATIONAL LABORATORY (LLNL) OF THE NEVADA NUCLEAR WASTE STORAGE INVESTIGATIONS PROJECT**

References: (1) Letter, Dronkers to Blaylock, dtd. 10/15/87  
(2) Letter, Dronkers to Blaylock, dtd. 11/18/87

The above referenced letters submitted LLNL's responses to Observation Nos. 1 and 4 from the subject audit. The WMPO has completed the review of the responses and concurs with the responses as written. In a telecon between Walt R. Kazor and John J. Dronkers on January 21, 1988, it was determined that LLNL has initiated a documented technical review to establish the necessity of a record trace for the use of J-13 water in past experiments. This was noted in LLNL's response to Observation No. 1.

If you have any questions, please call me at FTS 575-8913.

*James Blaylock*  
James Blaylock

Project Quality Manager  
Waste Management Project Office

WMPO:JB-1183