



Department of Energy

Nevada Operations Office
P. O. Box 98518
Las Vegas, NV 89193-8518
OCT 10 1989

WBS 1.2.9.3
QA

Carl P. Gertz, Project Manager, YMP, NV

ISSUANCE OF STANDARD DEFICIENCY REPORTS (SDRs) 442 AND 443

Reference: Letter, Wilmot to Gertz, dtd. 9/28/89

The letter referenced above inadvertently had two enclosures to the SDRs omitted. Enclosed is a complete package which includes the letters referenced in the SDRs.

If you have any questions regarding this matter, please call James Blaylock of my staff at 794-7913.

James Blaylock
Edwin L. Wilmot, Acting Director
Quality Assurance Division
Yucca Mountain Project Office

YMP:JB-214

Enclosure:
SDRs 442 and 443, Revision 0,
w/encls

cc w/encl:
Ralph Stein, HQ (RW-30) FORS
Dwight Shelor, HQ (RW-3) FORS
J. J. Brogan, SAIC, Las Vegas, NV, 517/T-12
L. G. Scherr, SAIC, Las Vegas, NV, 517/T-06
S. R. Dana, SAIC, Las Vegas, NV, 517/T-06
K. W. Moore, SAIC, Las Vegas, NV, 517/T-28
J. H. Nelson, SAIC, Las Vegas, NV, 517/T-04
S. W. Zimmerman, NWPO, Carson City, NV
J. E. Kennedy, NRC, Washington, DC ←

cc w/o encl:
G. P. Fehr, SAIC, Las Vegas, NV, 517/T-12
V. D. Hedges, SAIC, Las Vegas, NV, 517/T-06
A. L. Temple, SAIC, Las Vegas, NV, 517/T-38
R. J. Bahorich, W, Las Vegas, NV 517/T-12
J. W. Gilray, NRC, Las Vegas, NV

8910160211 891010
PDR WASTE
WM-11 PDC

*WM-11
102.7
N103*



Department of Energy

Nevada Operations Office

P. O. Box 98518

Las Vegas, NV 89193-8518

SEP 28 1989

WBS #1.2.9.3

QA

Carl P. Gertz, Project Manager, YMP, NV

ISSUANCE OF STANDARD DEFICIENCY REPORTS (SDRs) 442 AND 443, REVISION 0, RESULTING FROM YUCCA MOUNTAIN PROJECT OFFICE (PROJECT OFFICE) QUALITY ASSURANCE (QA) AUDIT 89-03 OF SANDIA NATIONAL LABORATORIES (SNL) (NN1-1989-3649)

Enclosed are SDRs 442 and 443, Revision 0, generated as a result of Project Office QA Audit 89-03 of SNL.

Please identify the corrective actions to be taken and implemented to correct the deficiencies by completing blocks 14 through 18, as appropriate, on each SDR.

Responses to the SDRs are due within 20 working days of the date of this letter. Any extension to these due dates must be requested in writing with appropriate justification prior to the due date. Please send the original of your responses to Juanita Brogan, Science Applications International Corporation, 101 Convention Center Drive, Las Vegas, Nevada 89109, and a copy to Ralph Gray, U.S. Department of Energy, P. O. Box 98518, Las Vegas, Nevada 89193.

Your cooperation and timely response is appreciated. If you have any questions, please contact James Blaylock of my staff at 794-7913, or Stephen R. Dana of Science Applications International Corporation at 794-7176.

A handwritten signature in black ink, appearing to read "Edwin L. Wilmot".

Edwin L. Wilmot, Acting Director
Quality Assurance Division
Yucca Mountain Project Office

YMP:JB-6067

Enclosure:
SDRs 442 and 443, Revision 0

Carl P. Gertz

-2-

SEP 28 1989

cc w/encl:

Ralph Stein, HQ (RW-30) FORS
Dwight Shelor, HQ (RW-3) FORS
J. J. Brogan, SAIC, Las Vegas, NV, 517/T-12
L. G. Scherr, SAIC, Las Vegas, NV, 517/T-06
S. R. Dana, SAIC, Las Vegas, NV, 517/T-06
K. W. Moore, SAIC, Las Vegas, NV, 517/T-28
J. H. Nelson, SAIC, Las Vegas, NV, 517/T-04
S. W. Zimmerman, NWPO, Carson City, NV
J. E. Kennedy, NRC, Washington, DC

cc w/o encl:

G. P. Fehr, SAIC, Las Vegas, NV, 517/T-12
V. D. Hedges, SAIC, Las Vegas, NV, 517/T-06
A. L. Temple, SAIC, Las Vegas, NV, 517/T-38
R. J. Bahorich, W, Las Vegas, NV, 517/T-12
J. W. Gilray, NRC, Las Vegas, NV

WMPO STANDARD DEFICIENCY REPORT

N-QA-038
4/89

Completed by Originating QA Organization	1 Date 9/15/89		2 Severity Level <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3		Page 1 of 2	
	3 Discovered During AUDIT 89-3 (SNL)		3a Identified By S. DANA, J. HEANEY		4 SDR No. 442 Rev. 0	
	5 Organization YMP		6 Person(s) Contacted T. HUNTER (SNL)		7 Response Due Date is 20 Working Days from Date of Transmittal	
	8 Requirement (Audit Checklist Reference, if Applicable) (CL# n/a) YMP QA Plan NNWSI/88-9, Rev. 2, Sect. 3, para. 1.3.2, states in part, "The WMPO Project Quality Manager and the appropriate WMPO Branch Chief shall review and approve the scientific investigation planning document prior					
Completed by Organization in Block 5	9 Deficiency SNL work plans were submitted to the Project Office for approval (ref. SNL ltr. LES:6315, dtd. 2/7/89, Stiegler to Wilmot, (attached)). The work plans were disapproved by the Project Office (ref. ltr. YMP:ALB-2629, dtd. 4/10/89,					
	10 Recommended Action(s): <input checked="" type="checkbox"/> Remedial <input type="checkbox"/> Investigative <input type="checkbox"/> Corrective 1. Train appropriate personnel to the Project requirements cited in Block 8.					
	11 QAE/Lead Auditor/Date <i>S. Dana 9/22/89</i>		12 Division Manager/Date <i>Richard G. ... 9-22-89</i>		13 Project Quality Mgr./Date <i>James Blumfeld 9/24/89</i>	
	14 Remedial/Investigative Action(s) 15 Effective Date _____					
Completed by Org. QA Org.	16 Cause of the Condition & Corrective Action to Prevent Recurrence 17 Effective Date _____					
	18 Signature/Date					
	19 Response Accepted	QAE/Lead Auditor/Date	Division Manager/Date	Project Quality Mgr./Date		
20 Corrective Action Verif. Satisfactory	QAE/Lead Auditor/Date	Division Manager/Date	Project Quality Mgr./Date			
21 Remarks						
22 QA CLOSURE	QAE/Lead Auditor/Date	Division Manager/Date	PQM/Date			

ENCLOSURE

YMP STANDARD DEFICIENCY REPORT
CONTINUATION SHEET

N-QA-038
12/88

SDR No. 442

Rev. 0

Page 2 of 2

8 Requirement (continued)
to implementation."

Para 1.7, states in part, "All changes in scientific investigation planning documents shall go through the same review and approval process as specified in para. 1.3 of this section."

9 Deficiency (continued)

Gertz to Hunter, (attached)), however, the letter directed SNL to proceed with work to the unapproved work plans.

It should be noted that during YMP audit SNL 89-3, no evidence was found that SNL was proceeding with QAL I/II activities using the unapproved work plans referenced in the Gertz to Hunter letter.

120017

Sandia National Laboratories

Albuquerque, New Mexico 87185

FEB 7 1989

WBS: 1.2.9.2

QA: NA

THIS IS A YUCCA MOUNTAIN PROJECT MILESTONE	
No.	R100
Date Completed	2/7/89
WBS No.	1292

Ed Wilmot
 Yucca Mountain Project Office
 U.S. Department of Energy
 Nevada Operations Office
 P.O. Box 98518
 Las Vegas, Nevada 89193-8518

Dear Ed:

Subject: Transmittal of Work Plans for YMP Approval

Enclosed are all of the SNL Work Plans and Quality Assurance Level Assignments (QALAS) that require Project Office approval. As we discussed in Albuquerque on February 1, I have identified several Work Plans (see attachment) required to support the ESF Title II work which you have agreed to expedite through the Project Office review and approval process. We would like your approval on these Work Plans before the start of Title II, if at all possible, and on the remainder as soon as is practicable.

I appreciate your assistance in expediting this process. If you have any questions on the Work Plans or QALAS, please contact R. Richards (FTS 844-1280) or L. Shephard (FTS 844-3604) of my staff.

Submittal of these Work Plans satisfies Milestone R100.

Sincerely,

NNI-1989-1229

ACTION PETRIE / BLAYLOCK E. Stigler 2/7/89
 CC: ROBSON / WILMOT
 CC: BACA / NORI
 CC: EDWARDS / MORLEY
 CC: SKIDSEN / BLANCHARD
 CC: KILVANEK
 CC: MANSEL / CRAWLEY
 CC: NEUBURY
 CC: DEBSON
 CC: LOUNGER
 CC: WILLIAMS

Joseph E. Stiegler, Actg. Manager
 Nuclear Waste Repository Technology
 Department 6310

LES:6315:mjh
Attachment

WJD
ENCE

BACKUP INFORMATION

REC'D IN WMPO
 2-13-89

RECORD COPY

E. Wilmot

-2-

FEB 7 1988

Copy to: (w/attach I)
6310 J. E. Stiegler, Actg.
6310 R. R. Richards
6311 A. Stevens
6312 F. W. Bingham
6313 T. E. Blejwas
6314 J. R. Tillerson
6316 R. P. Sandoval
6316 S. E. Sharpton
6315 L. E. Shephard
6310 10/1292/WKP/NQ
6310 30/1291/0.6/NQ
6310 YMP CRF (Attachs. 1&2)

Attachment I

Sandia Work Plans and QALAS Required for
ESF Title II Work

<u>WBS Number</u>	<u>Title</u>
12141	Flow and Radionuclide Transport
12142	Radionuclide Source Term
1232122	Faulting Potential at Site Surface Facilities
124211	Rock Mass Analysis
124112	Basis for Design
1242151	Prototype Geomechanical Testing
1242152	ESF Geomechanical Testing
12437	Seismic UNE Design Analysis
12461	Repository Performance Code Development/ Certification
12462	Design Analysis
12463*	Preclosure Safety Analysis
12525	Study Plan Coordinating

*This work plan will follow shortly under separate cover.



Department of Energy

Nevada Operations Office

P. O. Box 98518

Las Vegas, NV 89193-8518

APR 10 1989

WBS #1.2.4

"QA: NA"

APR 14 1989

Date Submitted 4/27/89

Authenticated/Verified 24

6310 10/12911/COR/ ~~QA~~ QI

6310 90/1293/QAL/QI

6310 YMP CRF

Document As Shown

Other info: _____

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

APPROVAL OF SANDIA NATIONAL LABORATORIES (SNL) WORK PLANS (NN1-1989-1849)

The Yucca Mountain Project Office (Project Office) has completed a review of the SNL work plans submitted for approval. At this time, we cannot approve the plans for the following reasons:

1. The Quality Assurance Level Assignments (QALAs) for the work plans were not completed in accordance with Administrative Procedure (AP)-5.4Q.
2. The Quality Assurance (QA) grading within the work plans was not completed in accordance with AP-5.17Q.

We recognize that these procedures were issued after the work plans were prepared and were not applicable to the plans. However, recognizing the importance of the QALAs and associated grading, we request that you re-evaluate the QALAs and grading using the appropriate project level procedures. We expect the work described by the plans to proceed in parallel with your re-evaluation. Any differences between the QALAs or grading resulting from your evaluation will be identified and controlled using appropriate elements of your QA program. In parallel with the re-evaluation, we intend to initiate an 06-03 review of the work plans and expect any comments resulting from the review to be resolved and incorporated in the resubmittal of the SNL work plans.

If you have any questions, please contact Anthony L. Baca of my staff at (702) 794-7960 or PTS 544-7960.

Carl P. Gertz, Project Manager
Yucca Mountain Project Office

YMP:ALB-2629

- cc:
- Al Stevens, SNL, 6311, Las Vegas, NV
 - R. R. Richards, SNL, 6311, Las Vegas, NV
 - J. D. Waddell, SAIC, Las Vegas, NV

YIMD STANDARD DEFICIENCY REPORT

N-QA-038
4/89

Completed by Originating QA Organization

1 Date 9/15/89		2 Severity Level <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3		Page 1 of 2
3 Discovered During AUDIT 89-3 (SNL)		3a Identified By M. MITCHELL		4 SDR No. 443 Rev. 0
5 Organization YMP		6 Person(s) Contacted E. WILMOT, R. WAVRIK		7 Response Due Date is 20 Working Days from Date of Transmittal
8 Requirement (Audit Checklist Reference, if Applicable) (CL# T-1, T-2, T-6) 1) Project QAP, 88-9, Rev. 2, Sect. VIII, part C, para. 1.1.2 states " Where data are the results of the efforts of more than one organization, procedures				
9 Deficiency Contrary to the above requirements: 1. The YMP (Project Office) has not established procedures for the control				
10 Recommended Action(s): <input checked="" type="checkbox"/> Remedial <input checked="" type="checkbox"/> Investigative <input checked="" type="checkbox"/> Corrective 1. Investigate to determine the extent of this deficiency in other activities.				

Completed by Organization in Block 5

11 QAE/Lead Auditor/Date <i>Stanc 9/22/89</i>	12 Division Manager/Date <i>Robert Hedger 9-22-89</i>	13 Project Quality Mgr./Date <i>James Blunford 9/22/89</i>
14 Remedial/Investigative Action(s)		15 Effective Date _____
16 Cause of the Condition & Corrective Action to Prevent Recurrence		17 Effective Date _____
18 Signature/Date		

Comp. by Orig. QA Org.

19 Response Accepted	QAE/Lead Auditor/Date	Division Manager/Date	Project Quality Mgr./Date
20 Corrective Action Verif. Satisfactory	QAE/Lead Auditor/Date	Division Manager/Date	Project Quality Mgr./Date
21 Remarks			
22 QA CLOSURE	QAE/Lead Auditor/Date	Division Manager/Date	PQM/Date

8 Requirement (continued)

describing the organizational responsibilities for that data shall be developed and implemented, and 2) sect. VIII para. 2.3.2 states "Documentation of design analysis shall include in part a listing of applicable references, results of literature searches or other background data, identification of assumptions and indication of those which require verification as the design proceeds." In sect. III, para. 1.4.2 states in part, "... for scientific investigations that documentation of interpretation analysis shall include identification of assumptions."

9 Deficiency (continued)

of the Quality Level II activity associated with the generation of the document, SAND 88-3073, "Waste Package Emplacement Orientation Recommendation". This document was prepared at the direction of the Project Office by SNL and project organization staff using data from various sources.

2. The activity records and document (SAND 88-3073) did not identify and document assumptions used in the analysis, or indicate the quality level of the data used in the analysis.

10 Recommended Actions (continued)

2. Determine the impact of this condition on this and other activities that might include interpretation of analysis functions.
3. Determine the need for the Orientation Recommendation document (SAND 88-3073) and determine a strategy for replacing the analysis completed if a document is needed at this time.
4. Provide required procedural controls to ensure that reoccurrence does not take place and that assumptions are documented in design and scientific investigation activities.