



Department of Energy

Nevada Operations Office
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WBS 1.2.9.3
QA

MAR 01 1990

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

VERIFICATION OF COMMITTED CORRECTIVE ACTION FOR STANDARD DEFICIENCY REPORT (SDR) 173, REVISION 0, RESULTING FROM YUCCA MOUNTAIN PROJECT OFFICE (PROJECT OFFICE) QUALITY ASSURANCE (QA) AUDIT 88-06 OF SANDIA NATIONAL LABORATORIES

Be advised that the effective date for the completion of the committed corrective action to SDR 173, Revision 0, has passed with the corrective action remaining incomplete. This renders the verification as unsatisfactory and is hereby rejected. Please provide a new completion date within 10 working days from the date of this letter. Send a copy of your response to Nita J. Brogan, Science Applications International Corporation (SAIC), Las Vegas, Nevada 89109.

The specific details of corrective actions determined to be unsatisfactory are as stated below:

The Laboratory Properties Modified Work Plan has not been revised and approved which contains approved QA Level III Quality Assurance Level Assignment Sheets for the performance of QA Level III scoping work. The latest corrective action completion due date provided was January 1, 1990. An extension of this date was not requested in writing by your organization prior to the due date.

Verification of completion of your corrective action will be performed after the new effective date to be provided. Any subsequent failure to comply with the due date provided will result in elevation of the matter to the appropriate management for action. A copy of the SDR is enclosed for your information.

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If you have any questions, please contact Robert B. Constable of my staff at (702) 794-7945 or FTS 544-7945, or Gerard Heaney of SAIC at (702) 794-7749 or FTS 544-7749.

James B. Layton for
Donald G. Horton, Director
Quality Assurance Division
Yucca Mountain Project Office

YMP:RBC-2196

Enclosure:
SDR 173, Revision 0

cc w/encl:

Ralph Stein, HQ (RW-30) FORS
D. E. Shelor, HQ (RW-3) FORS
R. R. Richards, SNL, 6310, Albuquerque, NM
J. E. Clark, SAIC, Las Vegas, NV, 517/T-12
Gerard Heaney, SAIC, Las Vegas, NV, 517/T-06
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:

J. H. Hines, NWQA, AL
N. J. Brogan, SAIC, Las Vegas, NV, 517/T-08
C. H. Prater, SAIC, Las Vegas, NV, 517/T-06
J. W. Gilray, NRC, Las Vegas, NV

YMPO STANDARD DEFICIENCY REPORT

N-QA-038
3/87

Completed by Organization in Block 5

1 Date 8/3/88	2 Severity Level <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3		Page 1 of 3
3 Discovered During YMPO Audit 88-06	3a Identified By W. Sublette	3b Branch Chief Concurrence Date N/A	4 SDR No. 173 Rev. 0
5 Organization SNL	6 Person(s) Contacted F. Nimick & R. Price	7 Response Due Date is 20 Working Days from Date of Transmittal	
8 Requirement (Audit Checklist Reference, if Applicable) SNL QAP 2-3, "Quality Assurance Level Assignment and Work Plans," Rev. A, Para. 4.5.1, states in part "Each technical task or PCA shall be given a QA level assignment of either QA Level I, QA Level II, or QA Level III. If an			
9 Deficiency A. Contrary to the above, SNL has performed QA Level III scoping work in activities identified in the Laboratory Properties (WBS 1.2.4.2.1.3.S) Modified Work Plan as QA Level I.			
10 Recommended Action(s): <input checked="" type="checkbox"/> Remedial <input checked="" type="checkbox"/> Investigative <input checked="" type="checkbox"/> Corrective 1. Initiate appropriate actions to have the draft Modified Work Plan approved and issued.			
11 QAE/Lead Auditor Date <i>G. Heesney</i> 8-11-88	12 Branch Manager <i>A. Howell</i>	Date AUG 11 1988	13 Project Quality Mgr. Date <i>James Blaylock</i> 8/18/88
14 Remedial/Investigative Action(s) Deficiency A: The actions we have taken essentially correspond to the suggested actions [nos. 1 and 2 in Section 10, Recommended Action(s)]. Remedial: The original draft of the 1986 Modified Work Plan for Laboratory Properties (WBS 124213) included the activities in question (A.6, A.7, A.8 and A.9) (cont'd.)		15 Effective Date <u>11/15/88</u>	
16 Cause of the Condition & Corrective Action to Prevent Recurrence The cause of this deficiency was poor coordination and lack of understanding concerning QA Level assignment between YMPO and SNL. Those misunderstandings no longer exist; no additional corrective action is needed.		17 Effective Date <u>N/A</u>	
18 Signature/Date <i>Thomas Hunt</i> 10/8/88			
19 Response <input checked="" type="checkbox"/> Accept <input type="checkbox"/> Amended Response	<input type="checkbox"/> Reject	QAE/Lead Auditor/Date <i>G. Heesney</i> 11-2-88	Branch Manager/Date <i>A. Howell</i> 4 Nov 88
20 Amended Response <input type="checkbox"/> Accept <input type="checkbox"/> Reject	<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 <i>Extension Request, dtd 10/26/89 - Price to Norton accept Extension, YMP: JB-685, dtd 11/8/89</i> RESPONSE ACCEPTANCE LETTER - YMP: WBM - 722 dtd. 11-23-88			
23 QA CLOSURE	QAE/Lead Auditor/Date	Branch Manager/Date	PQM/Date

ENCLOSURE



8 Requirement (continued)

item or task is assigned a QA level without further subdivision, all of its subparts will have the same QA level unless an exemption is specifically documented and justified as exempt." (Refer to audit checklist Item No. T-122.)

9 Deficiency (continued)

The QA Level III scoping work was performed in the following activities:

1. A.6 - Mechanical properties of welded, devitrified Topopah Spring Member at high temperature and/or low strain rates.
2. A.7 - Anisotropy of mechanical properties of welded, devitrified Topopah Spring Member.
3. A.8 - Tensile strength of welded, devitrified Topopah Spring Member.
4. A.9 - Mechanical properties of fractures in welded, devitrified Topopah Spring Member.

Note: It was observed during the audit that SNL has a draft revision to the Laboratory Properties Modified Work Plan which does contain QA Level III Quality Assurance Level Assignment Sheets for the scoping work in the above activities.

B) Contrary to the above, Design Investigation Memo (DIM) NO. 37 is identified as QA level III. However, the Modified Work Plan "Preclosure Safety Analysis" Revision B which governs the work in the DIM is currently at QA level II.

10 Recommended Actions (continued)

2. Investigate to determine if the performance of scoping work at QA Level III has any adverse impact on the QA Level I work activities (i.e., data collection).
3. Revise DIM 37 to indicate the appropriate QA level.

14 Remedial/Investigative Action(s) (cont'd.)

as QA Level 3; however, during the WMPO review of the Work Plan the QA Level of all activities in that plan were reviewed to 1 (at WMPO's verbal request). This change was made with the implicit assumption that QA Level 3 scoping work could be conducted under an activity with an overall QA Level of 1.

The Work Plan that is presently in the review process (and is expected to be approved by 10/15/88) includes subtasks for the scoping work in question at a QA Level of 3.

14 Remedial/Investigative Action(s) (cont'd.)

Investigative: Activities A.6, A.7, A.8, and A.9 have been (and are being) performed at QA Level 3; however, there have been no adverse effects on the proposed QA Level 1 work. On the contrary, these scoping activities were planned in order to prepare for the QA Level 1 testing by developing appropriate procedures and techniques.

Deficiency B: The Modified Work Plan (Preclosure Safety Analysis) covering DIM 37 has defined this work as QA Level 3; however, Al Stevens has stated that this is a mistake and has defined the following activities:

Remedial: DIM 37 will be revised to reflect a QA Level of 2 (Al Stevens, 11/15/88).

Investigative: There have been no adverse effects, because all of the DIM 37 activities performed to date have been found to meet the criteria for a QA Level 2.