



Department of Energy

Yucca Mountain Project Office
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WBS 1.2.9.3
QA

AUG 13 1990

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

CLOSURE OF STANDARD DEFICIENCY REPORT (SDR) 445, REVISION 0, RESULTING FROM YUCCA MOUNTAIN PROJECT OFFICE QUALITY ASSURANCE (QA) AUDIT 89-03 OF SANDIA NATIONAL LABORATORIES (SNL)

SDR 445, Revision 0, has been closed based on satisfactory verification of completed corrective actions. A copy of the SDR is enclosed for your files.

If you have any questions, please contact either Catherine E. Hampton at (702) 794-7973 or FTS 544-7973, or Amelia I. Arceo at (702) 794-7737 or FTS 544-7737 of the Yucca Mountain Project QA staff.

Donald G. Horton, Director
Quality Assurance
Yucca Mountain Project Office

QA:CEH-4483

Enclosure:
SDR 445

cc w/encl:

D. E. Shelor, HQ (RW-30) FORS
R. R. Richards, SNL, 6319, Albuquerque, NM
S. W. Zimmerman, NWPO, Carson City, NV
K. R. Hooks, NRC, Washington, DC ←

cc w/o encl:

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

102.7
WM-11
NH03 1/1

YMPO STANDARD DEFICIENCY REPORT

N-QA-038
4/89 *3air*

Completed by Originating QA Organization

Aprvl.

Completed by Organization in Block 5

Comp. by Orig. QA Org.

1 Date 9/22/89 2 Severity Level 1 2 3 Page 1 of 2 *7/80 92*

3 Discovered During AUDIT 89-3 (SNL) 3a Identified By F.D. PETERS 4 SDR No. 445 Rev. 0

5 Organization SNL 6 Person(s) Contacted L. YARRINGTON 7 Response Due Date is 20 Working Days from Date of Transmittal

8 Requirement (Audit Checklist Reference, if Applicable)
SNL-NWRT-QAPP, Rev. E. Sect. 8.0, Identification and Control of Items, Samples, and Data:

9 Deficiency
1. The activity which produced IGIS products CALO342 and CALO343 under WBS Element 1.2.1.3.2.S, ~~were~~^{was} assigned a QA Level of I, but the sources of the data used to produce these products, and the QA Levels of the *Sub 11/1/89*

10 Recommended Action(s): Remedial Investigative Corrective
1. Modify DOP 3-7 and document the sources of the data for IGIS products CALO342 and CALO343 plus the QA Levels associated with them.

11 QAE/Lead Auditor/Date *Steve 9/22/89* 12 Division Manager/Date *Richard Helgeson 9-22-89* 13 Project Quality Mgr./Date *James Blayford 9/22/89*

14 Remedial/Investigative Action(s) 15 Effective Date 1/1/90
General: As most of the data which forms the foundation for the current work done in the Interactive Graphic Information System was generated prior to the existence of a fully qualified QA program at Sandia National Laboratories, it is necessary to evaluate all of the existing products and reference files for conformity to the current procedures and requirements before any assertion can be made (cont'd.)

16 Cause of the Condition & Corrective Action to Prevent Recurrence 17 Effective Date NA
NA

18 Signature/Date *LES 10-31-89* *Peterson W. Bingham 11/1/89*
for T. O. Hunter, Dept. Manager 6310

19 Response Accepted QAE/Lead Auditor/Date *Steve 12/1/89* Division Manager/Date *Steve 12/1/89* Project Quality Mgr./Date *James Blayford 12/1/89*

20 Corrective Action Verif. Satisfactory QAE/Lead Auditor/Date *Amelia J. Arco 7/18/90* Division Manager/Date *N/A* Project Quality Mgr./Date *John Hunter 8/1/90*

21 Remarks *Accept Response 1/2/90 - YMP: JB-1359*
Extension Request 1/11/90 - JUV: 6310: mjh - Accept 2/1/90 - YMP: RB-1760
Unsat Verification 3/21/90 - YMP: CEH-2447 - RIB Change Request CR-51 not submitted to PCCB; hence the RIB, Rev. 0, Version 4 Item 1.2.9 was not corrected on 3/2/90
Response, Hunter to Horton, dtd 4-4-90 - Accepted 5/4/90 - YMP: CEH-3111 *air 9/3/90*
Corrective Action Verification: Reviewed letter from T.O. Hunter to Sam Matthews dated 3/26/90 Subject - Change Request for RIB Version 4 Item 1.2.9. Awaiting Proj. Office Action to close

22 QA CLOSURE QAE/Lead Auditor/Date *Amelia J. Arco 7/6/90* Division Manager/Date *N/A* PQM/Date *John Hunter 8/9/90* SDR, Ara 6-12-90

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CONTINUATION SHEET

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8 Requirement (continued)

"8.4.2: General - The identification of Yucca Mountain Project data shall include a reference to the origin of the data (test, experiment, report, publication, etc.) and an indication of the QA Level assigned to the activity which produced the data."

"8.4.2.1 Control measures shall be established and implemented to assure that Yucca Mountain Project data are properly identified. These measures shall include verification of the identification of such data prior to release for use for data resulting from QA Level I or II activities."

9 Deficiency (continued)

activities which produced that data, were not identified, even though these products have been released for use.

2. The Reference Informance Base item 1.2.9, of Version 4 of the RIB (RIB Control Number DR-22) states that the item (which consists of IGIS products CALO249, CALO250, CALO251), were produced under WBS Element 1.2.4.2.1.1.S as a QA Level I activity. This is incorrect, because these IGIS products were produced from an activity at the IGIS under WBS Element 1.2.1.3.2.S, which was assigned a QA Level of III.

10 Recommended Actions (continued)

2. Correct the RIB.

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

about the quality of the associated raw data and the quality level of the procedures used in their creation. In many cases the amount of work required for this evaluation would equal or exceed the amount of work required to regenerate the product. In some cases the amount of documentation which currently exists is inadequate to retrace the original work. For these reasons memo will be issued which removes any assertion regarding the conformity of previous products and reference models to QA program requirements cited in Section 8 above. This memo will be sent to all TPOs. It will request that PIs which rely upon previous IGIS products for existing or future work submit a new work request form indicating those products which are essential to their work and must be verified. These products will be evaluated by the IGIS staff for compliance to current QA and documentation requirements. Only those products which are verified in this fashion will exist under the approved QA program.

Deficiency 1. These products will no longer carry an assertion of any QA status (see above discussion). Lane Yarrington will issue a memo to the requestor of each product (CAL0342 and CAL0343) to that effect.

Deficiency 2. A change request to the RIB will be initiated by Joseph Schelling to make the needed editorial changes and to better document the origin of the data.

SDR-445

21. Remarks

Corrective Action Verification: Reviewed Change Directive (CD), Title of Change: Editorial correction to RIB item 1.2.9; CR No.:90/018; CR Disposition: Approved with Conditions; Directive Issued by Disposition Authority: Edwin L. Wilmot, Deputy Project Manager, Signed by Carl P. Gertz for EEL on 6/26/90 and Concurred by Donald G. Horton, Project QA on 6/25/90.

Julia J. Green 7/18/90