



Department of Energy
Office of Civilian Radioactive Waste Management
Yucca Mountain Site Characterization Office
P.O. Box 98608
Las Vegas, NV 89193-8608

MAR 21 1996

L. Dale Foust
Technical Project Officer
for Yucca Mountain
Site Characterization Project
TRW Environmental Safety Systems, Inc.
Bank of America Center, Suite P-110
101 Convention Center Drive
Las Vegas, NV 89109

EVALUATION OF RESPONSES TO DEFICIENCY REPORTS (DR)
YMQAD-96-D010, YMQAD-96-D011, AND YMQAD-96-D012, RESULTING
FROM YUCCA MOUNTAIN QUALITY ASSURANCE DIVISION'S (YMQAD)
AUDIT YM-ARP-96-01 OF UNIVERSITY OF NEVADA, RENO/SEISMOLOGICAL
LABORATORY (SCPB: N/A)

The YMQAD staff has evaluated the responses to DRs
YMQAD-96-D010, YMQAD-96-D011, and YMQAD-96-D012
(all Revision 1). The responses have been determined to
be satisfactory. Verification of completion of the remedial
actions will be performed after the effective dates provided.
Any extension to the dates must be requested in writing,
with appropriate justification, prior to the due dates.
Please send a copy of extension requests to Deborah G. Sult,
YMQAD/QATSS, 101 Convention Center Drive, Suite 640, Las Vegas,
Nevada 89109.

If you have any questions, please contact either Robert B.
Constable at 794-7945 or Donald J. Harris at 794-7356.

Robert B. Constable

Richard E. Spence, Director
Yucca Mountain Quality Assurance Division

YMQAD:RBC-1367

Enclosure:
DRs YMQAD-96-D010,
YMQAD-96-D011, and
YMQAD-96-D012

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MAR 21 1996

L. Dale Foust

-2-

cc w/encl:

T. A. Wood, HQ (RW-14) FORS
J. G. Spraul, NRC, Washington, DC
S. W. Zimmerman, NWPO, Carson City, NV
R. L. Strickler, M&O, Vienna, VA
R. P. Ruth, M&O, Las Vegas, NV

cc w/o encl:

W. L. Belke, NRC, Las Vegas, NV
D. G. Sult, YMQAD/QATSS, Las Vegas, NV
D. J. Harris, YMQAD/QATSS, Las Vegas, NV

**OFFICE OF CIVILIAN
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8 Performance Report
 Deficiency Report
 NO. YM-QAD-96-D010, R1
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PERFORMANCE/DEFICIENCY REPORT

1 Controlling Document: QARD, DOE/RW-0333P, Rev. 4
 2 Related Report No. YM-ARP-96-01

3 Responsible Organization: M&O/UNRSL
 4 Discussed With: W. Rodman (USGS)/W. Nicks (UNRSL)

5 Requirement/Measurement Criteria:
 QARD, Paragraph 4.2.1C.1, "Procurement documents shall include a requirement for the supplier to have a documented QA Program that implements applicable QARD requirements prior to the initiation of work." Paragraph 7.2.2A, "Supplier selection shall be based on an evaluation, performed before the contract is awarded, of the suppliers' capability to provide items or services in accordance with the procurement document requirements".

6 Description of Condition:
 Contrary to the above requirements, Teledyne Geotech model 18300, Drawing 990-18300-9600 seismometers were procured from an unqualified supplier whose QA program was not evaluated. The seismometers were provided with Calibration Certifications which contained the Coil Motor Constant reading which was subsequently used by UNRSL as calibration input without verifying the actual Coil Motor Constant prior to their calibration of the seismometer, Drawing 990-18300-9600, Model 18300, S/N 3183.

7 Initiator: *Donald J. Harris*
 Donald J. Harris Date 1/10/96
 9 QA Review: *Donald J. Harris*
 QAR Donald J. Harris Date 1/10/96

10 Response Due Date: 20 working days from issuance
 11 Compliance Approval: *[Signature]*
 QAR (PRI)/A/QAM (DR) Date 1-16-96

12 Remedial Actions:
 Investigate the procedure used by the seismometer manufacturer to determine coil motor constants. Determine if the procedure meets the requirements of the QARD. If the procedure meets the QARD requirements, qualify the coil motor constants in accordance with OCRWM approved procedure. If the procedure to determine the coil motor constant does not meet QARD requirements, evaluate the benefit of qualified magnitudes versus the cost of verifying all seismometer coil motor constants. Evaluate whether increased magnitude uncertainties are acceptable to meet project needs.
 Responsible Individual: David von Seggren. Due Date: July 31, 1996

13 Remedial Action Response By: *R. C. Guittmeyer*
 RICHARD C. GUITTMEYER Date 2/14/96
 14 Remedial Action Due Date: JULY 31, 1996

15 Remedial Action Response Acceptance: *al Harris*
 QAR al Harris Date 3/13/96
 16 PR Verification/Closure: QAR Date

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17 Recommended Actions:

Either qualify the supplier to provide calibration services or verify the Coil Motor Constant Reading prior to use by UNRSL in their calibration.

18 Investigative Actions:

Of the 18 sets of Teledyne Geotech 3-component seismometers installed as part of the Southern Great Basin Seismic Monitoring Network, all were procured by the USGS in 1990 from an unqualified supplier. Thus none of the coil motor constants used as calibration input were qualified. Future procurements for the seismic monitoring effort will be carried out by the M&O rather than the USGS. The subcontract for UNR and implementation of quality assurance requirements for this scope of work was transitioned from the USGS to the M&O at the beginning of FY 1996. Thus root cause determination with respect to USGS procurements is not appropriate.

19 Root Cause Determination:

N/A

20 Action to Preclude Recurrence:

N/A

21 Response by: <i>R.C. Lint</i> RICHARD C. QUITMEYER Date 2/19/96	22 Corrective Action Completion Due Date:
23 Response Accepted OAR <i>al Harris</i> Date 3/13/96	24 Response Accepted AOQAM <i>[Signature]</i> Date 2/20/96
25 Amended Response Accepted OAR Date	26 Amended Response Accepted AOQAM Date
27 Corrective Actions Verified OAR Date	28 Closure Approved by: AOQAM Date

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PERFORMANCE/DEFICIENCY REPORT

1 Controlling Document:
QARD, DOE/RW-0333P, Revision 4

2 Related Report No.
YM-ARP-96-01

3 Responsible Organization:
USGS/UNRSL

4 Discussed With:
W. Rodman (USGS)/W. Nicks (UNRSL)

5 Requirement/Measurement Criteria:
QARD, Paragraph 4.2.1C.1, Procurement documents shall include a requirement for the supplier to have a documented QA program that implements applicable QARD requirements prior to the initiation of work. Paragraph 7.2.2A, Supplier selection shall be based on an evaluation, performed before the contract is awarded, of the suppliers' capability to provide items or services in accordance with the procurement document requirements.

6 Description of Condition:
Contrary to the above requirements, Teledyne Geotech model 18300, Drawing 990-18300-9600 seismometers were procured from an unqualified supplier whose QA program was not evaluated. The seismometers were provided with Calibration Certifications which contained the Coil Motor Constant reading which was subsequently used by UNRSL as calibration input without verifying the actual Coil Motor Constant prior to their calibration of the seismometer, Drawing 990-18300-9600, Model 18300, S/N3183.

7 Initiator *Donald J. Harris*
Donald J. Harris Date 10/25/95

9 QA Review
QAR *Donald J. Harris* Date 11/1/95

10 Response Due Date
20 working days from issuance

11 QA Issuance Approval
QAR (PR)/AODAM (DR) *[Signature]* Date 11/7/95

12 Remedial Actions:

13 Remedial Action Response By:
Date

14 Remedial Action Due Date
Date

15 Remedial Action Response Acceptance
QAR Date

16 PR Verification/Closure
QAR Date

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DEFICIENCY REPORT

17 Recommended Actions:

Either qualify the supplier to provide calibration services or verify the Coil Motor Constant Reading prior to use by UNRSL in their calibrations.

18 Investigative Actions:

19 Root Cause Determination:

20 Action to Preclude Recurrence:

21 Response by: Date	22 Corrective Action Completion Due Date:
23 Response Accepted QAR Date	24 Response Accepted AOQAMM Date
25 Amended Response Accepted QAR Date	26 Amended Response Accepted AOQAMM Date
27 Corrective Actions Verified QAR <i>el ghannis</i> N/A Date <i>1/11/96</i>	28 Closure Approved by: AOQAMM <i>[Signature]</i> Date <i>1.16.96</i>

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PERFORMANCE/DEFICIENCY REPORT

1 Controlling Document: YMP-USGS-QMP-5.05, Rev. 4, Section 5, Scientific Notebook	2 Related Report No. YM-ARP-96-01
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3 Responsible Organization: M&O/LNRSL	4 Discussed With: J. Brune, D. Von Seggen, B. Parks, T. Chaney
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5 Requirement/Measurement Criteria:
Page 2) 5.2 Notebook Identification - Scientific Notebook shall be uniquely identified.
5.4 Notebook Format - shall be prebound. Each side of a page containing entries shall be numbered. Entries shall be made in a manner that will enable legible photocopies. Relevant loose materials should be securely fastened or referenced on the scientific notebook, as appropriate.
5.6 In-Progress Entries shall contain the following information: ...Names of individuals performing the work, and dated initials or signatures for individuals making the entry.

6 Description of Condition:
1) The scientific notebook in use for the digital seismic network contains information on loose pages that are not numbered or signed. Some loose sheets appear to contain incomplete information to indicate that they are to be part of the scientific notebook.

7 Initiator <i>J. Agnew</i> James D. Agnew Date 1/11/96	9 QA Review <i>Donald J. Harris</i> QAR Donald J. Harris Date 1/11/96
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10 Response Due Date 20 working days from issuance	11 QA Issuance Approval <i>[Signature]</i> QAR IPH/AUCAM (DRI) Date 1/16/96
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12 Remedial Actions:
Loose pages and computer files intended to be part of Scientific Notebook SN-0090 will either be physically incorporated into the notebook or bound separately, clearly marked as to which scientific notebook it is attached to and referenced in the notebook as an attachment. A cover statement indicating that the enclosed pages accurately describe their work will be signed by individuals performing the work. Incomplete pages will be corrected. Unsigned and undated pages will be reviewed by investigators and signed and dated in dark ink. Responsible Individual: David von Seggen. Due Date: March 15, 1996.

13 Remedial Action Response By: <i>R.C. Quittmeyer</i> RICHARD QUITMEYER Date 2/14/96	14 Remedial Action Due Date MARCH 15, 1996 Date
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15 Remedial Action Response Acceptance QAR <i>[Signature]</i> Date 3/13/96	16 PR Verification/Closure N/A Date
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17 Recommended Actions:

Loose pages shall be bound on a regular basis (e.g. monthly), signed and dated by a supervisor, and reference made to it in the scientific notebook. Each page shall be numbered. Individuals performing the work shall sign a cover statement that the enclosed pages accurately describe their work and their notations of same: Signatures shall be made in dark ink (preferably black ink), and the computer print-outs should be bound separately and clearly marked as to which scientific notebook it is to be attached to.

18 Investigative Actions:

To investigate the extent of the problem documented in this Deficiency Report (DR) two additional scientific notebooks were reviewed by Dr. David von Seggren of the University of Nevada-Reno. The review of these notebooks uncovered no problems similar to the ones associated with SN-0090. Thus, the problem with SN-0090 appears to be an isolated occurrence at this time and root cause determination is unnecessary.

19 Root Cause Determination:

N/A

20 Action to Preclude Recurrence:

N/A

21 Response by: <i>R.C. Gault</i> RICHARD C. GALT-TRIMMER Date <i>2/4/96</i>	22 Corrective Action Completion Due Date:
23 Response Accepted QAR <i>al jhants</i> Date <i>3/13/96</i>	24 Response Accepted AOQAM <i>Montano</i> Date <i>3-20-96</i>
25 Amended Response Accepted QAR Date	26 Amended Response Accepted AOQAM Date
27 Corrective Actions Verified: QAR Date	28 Closure Approved by: AOQAM Date

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PERFORMANCE/DEFICIENCY REPORT

1 Controlling Document:
YMP-USGS-QMP-5.05, Revision 4, Section 5, Scientific Notebook

2 Related Report No.
YM-ARP-96-01

3 Responsible Organization:
USGS/UNRSL

4 Discussed With:
J. Brune, D. Von Seggen, B. Parks, T. Chaney

5 Requirement/Measurement Criteria:
Page 2) 5.2 Notebook Identification - Scientific Notebook shall be uniquely identified.

5.4 Notebook Format - shall be pre-bound. Each side of a page containing entries shall be numbered. Entries shall be made in a manner that will enable legible photocopies. Relevant loose materials should be securely fastened or referenced on the scientific notebook, as appropriate.

5.6 In-Progress Entries - in progress entries shall contain the following information:...Names of individuals performing the work, and dated initials or signatures for individuals making the entry.

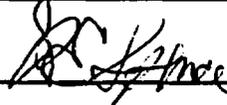
6 Description of Condition:

1) The scientific notebook in use for the digital seismic network contains information ^{on 2/11/95} of loose pages that are not numbered or signed. Some loose sheets appear to contain incomplete information to indicate that they are to be part of the scientific notebook.

7 Initiator
James D. Agnew  Date 10/26/95

9 QA Review
QAR  Date 11/1/95

10 Response Due Date
20 working days from issuance

11 QA Issuance Approval
QAR (PR)/AQQAM (DR)  Date 11/7/95

12 Remedial Actions:

13 Remedial Action Response By:
Date

14 Remedial Action Due Date
Date

15 Remedial Action Response Acceptance
QAR Date

16 PR Verification/Closure
QAR Date

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DEFICIENCY REPORT

17 Recommended Actions:

Loose pages shall be bound on a regular basis (e.g., monthly), signed and dated by a supervisor, and reference made to it in the scientific notebook. Each page shall be numbered. Individuals performing the work shall sign a cover statement that the enclosed pages accurately describe their work and their notations of same. Signatures shall be made in dark ink (preferably black ink), and the computer print-outs should be bound separately and clearly marked as to which scientific notebook it is to be attached to.

18 Investigative Actions:

19 Root Cause Determination:

20 Action to Preclude Recurrence:

21 Response by:

Date

22 Corrective Action Completion Due Date:

23 Response Accepted

QAR

Date

24 Response Accepted

AQQAMM

Date

25 Amended Response Accepted

QAR

Date

26 Amended Response Accepted

AQQAMM

Date

27 Corrective Actions Verified

QAR

N/A
Alphariss Date *1/11/96*

28 Closure Approved by:

AQQAMM

Blountable Date *1-16-96*

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PERFORMANCE/DEFICIENCY REPORT

1 Controlling Document: YMP-USGS-QMP-17.1, Rev. 7, Records Management for Record Sources
2 Related Report No. YM-ARP-96-01

3 Responsible Organization: M&O/UNRSL
4 Discussed With: J. Brune, D. Von Seggen, B. Parks, T. Chaney

5 Requirement/Measurement Criteria:
Page 7) 5.3.4, Creation - Records should be created with dark markings against a light background

Page 6) 5.3.1.1 Lineouts may be used to identify corrected information by scribing a single line through the incorrect information using an indelible medium, preferably black ink, and then entering the correct information in close proximity to the lineout. The incorrect information should remain legible.

Page 6) 5.3.1 Accuracy - All corrections to records to ensure records are accurate require a correction acknowledgment. This may be accomplished by the date and initials or signature of the person authorized to make corrections in close proximity to the correction on the document.
(continued)

6 Description of Condition:
1) Records of Earthquake locations for the 1993 Catalog, retained as QA Records by UNRSL were not generated in dark ink. Some entries were made in pencil. Some records appear to have been erased and re-written in as a correction.

2) The above records do not indicate any initials or signature that they were checked for accuracy by a supervising manager.

3) The above records are not being submitted in a timely manner to the Records Center, specifically, the supporting records for 1993 Catalog of Seismicity for the Southern Great Basin of Nevada and California, have not been submitted; i.e., the "pink sheets."

7 Initiator: *James D. Agnew* Date 1/11/96
9 QA Review: *Donald J. Harris* Date 1/11/96
QAR Donald J. Harris

10 Response Due Date: 20 working days after issuance
11 QA Assurance Approval: *John* Date 1.16.96
QAR (PRI/AOQAM (DR))

12 Remedial Actions:
Review the approximately 3000 "pink sheets" that document the routine processing of each recorded earthquake. Photocopy any sheets that were filled out in pencil to produce a record that cannot be erased. Review, sign, and date each sheet. Submit the records to the Record Processing Center in accordance with appropriate M&O procedures. Provide training in record source responsibilities, including proper record preparation and submittal (M&O QAP-17-1; M&O NLP-17-6), as part of the transition from the USGS to M&O quality assurance program.
Responsible Individual: David von Seggen. Due Date: July 30, 1996.

13 Remedial Action Response By: *R.C. Quittmeyer* Date 2/14/96
14 Remedial Action Due Date: *9/30/96* JULY 30, 1996
Date

15 Remedial Action Response Acceptance: *John Harris* Date 3/12/96
16 PR Verification/Closure: *N/A* Date

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DEFICIENCY REPORT

17 Recommended Actions:

- 1) Make all entries on summary forms in dark ink (preferably black ink). Corrections shall be made by lining out the error, initialing and dating the new entry.
- 2) The supervising manager shall check all entries and indicate agreement by initialing and dating the record.
- 3) Records shall be submitted to the M&O LRC as soon as possibly after submission of the annual seismicity catalog to DOE, preferably no later than 45 days after report submission and approval by DOE.

18 Investigative Actions:

The deficiency identified for 1993 records of earthquake locations exists for such records produced from 10/01/92 through 9/30/95. The accuracy of sheets was documented by qualified personnel using a checkmark rather than by dating and initialing. Entries were made in pencil due to inadequate training in records responsibilities.
Records documenting analysis of earthquakes since 10/01/95 are initialed and dated by a qualified individual as they are produced. Records are prepared in dark ink.

19 Root Cause Determination:

N/A

20 Action to Preclude Recurrence:

N/A

21 Response by: <i>R.C. Quitt</i> RICHARD C. QUITTMEYER Date 3/10/96	22 Corrective Action Completion Due Date:
23 Response Accepted QAR <i>[Signature]</i> Date 3/13/96	24 Response Accepted AOQAM <i>[Signature]</i> Date 3-20-96
25 Amended Response Accepted QAR _____ Date _____	26 Amended Response Accepted AOQAM _____ Date _____
27 Corrective Actions Verified QAR _____ Date _____	28 Closure Approved by: AOQAM _____ Date _____

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PR/DR CONTINUATION PAGE

Block 5 - Requirement/Measurement Criteria (continued)

Page 3) 4.3 - The Record Source is responsible for...the timely submittal of QA records and records packages to the LRC.

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PERFORMANCE/DEFICIENCY REPORT

1 Controlling Document: YMP-USGS-QMP-17.1, Revision 7, Records Management for Record Sources
2 Related Report No. YM-ARP-96-01

3 Responsible Organization: USGS/UNRSL
4 Discussed With: J. Brune, D. Von Seggen, B. Parks, T. Chaney

5 Requirement/Measurement Criteria:
Page 7) 5.3.4 , Creation - Records should be created with dark markings against a light background.

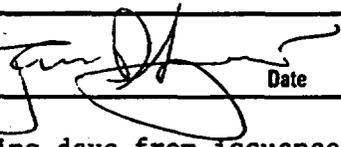
Page 6) 5.3.1.1 Lineouts may be used to identify corrected information by scribing a single line through the incorrect information using an indelible medium, preferably black ink, and then entering the correct information in close proximity to the lineout. The incorrect information should remain legible.

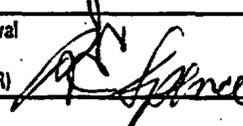
Page 6) 5.3.1 Accuracy - All corrections to records to ensure records are accurate require a correction acknowledgment. This may be accomplished by the date and initials or signature of the person authorized to make corrections in close proximity to the correction on the document.

6 Description of Condition:
1) Records of Earthquake locations for the 1993 Catalog, retained as QA Records by UNRSL were not generated in dark ink. Some entries were made in pencil. Some records appear to have been erased and re-written in as a correction.

2) The above records do not indicate any initials or signature that they were checked for accuracy by a supervising manager.

3) The above records are not being submitted in a timely manner to the USGS LRC, specifically, the supporting records for 1993 Catalog of Seismicity for the Southern Great Basin of Nevada and California, have not yet been submitted; i.e., the "pink sheets."

7 Initiator: James D. Agnew  Date 10/26/95
9 QA Review: QAR  Date 11/1/95

10 Response Due-Date: 20 working days from issuance
11 QA Issuance Approval: QAR (PRI/AOQAM (DR))  Date 11/7/95

12 Remedial Actions:

13 Remedial Action Response By: _____ Date _____
14 Remedial Action Due Date: _____ Date _____

15 Remedial Action Response Acceptance: QAR _____ Date _____
16 PR Verification/Closure: QAR _____ Date _____

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DR NO. YMQAD-96-D012
PAGE 2 OF 3
QA: L

DEFICIENCY REPORT

17 Recommended Actions:

- 1.) Make all entries on summary forms in dark ink (preferably black ink). Corrections shall be made by lining out the error, initiating and dating the new entry.
- 2) The supervising manager shall check all entries and indicate agreement by initializing and dating the record.
- 3) Records shall be submitted to the USGS LRC (or M&O LRC as appropriate) as soon as possible after submission of the annual seismicity catalog to DOE, preferably no later than 45 days after report submission and approval by DOE.

18 Investigative Actions:

19 Root Cause Determination:

20 Action to Preclude Recurrence:

21 Response by: Date	22 Corrective Action Completion Due Date:
23 Response Accepted QAR Date	24 Response Accepted AQQAMM Date
25 Amended Response Accepted QAR Date	26 Amended Response Accepted AQQAMM Date
27 Corrective Actions Verified N/A QAR <i>[Signature]</i> Date 1/11/96	28 Closure Approved by: AQQAMM <i>[Signature]</i> Date 1-16-96

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PR/DR CONTINUATION PAGE

Block 5 continued

Page 3) 4.3 - The Record Source is responsible for...the timely submittal of QA records and records packages to the LRC.