



Department of Energy

Washington, DC 20585

QA: L

AUG 13 1997

**L. D. Foust, Technical Project Officer
for Yucca Mountain Site
Characterization Project
TRW Environmental Safety Systems, Inc.
1180 Town Center Drive, M/S 423
Las Vegas, NV 89134**

**EVALUATION OF RESPONSE TO DEFICIENCY REPORT (DR) YM-97-D-057
RESULTING FROM OFFICE OF QUALITY ASSURANCE (OQA) SURVEILLANCE
YMP-SR-97-029 OF THE UNIVERSITY OF NEVADA AT RENO**

The OQA staff has evaluated the response to DR YM-97-D-057. The response has been determined to be satisfactory. Verification of completion of the corrective action will be performed after the effective date provided. Any extension to this date must be requested in writing, with appropriate justification, prior to the date. Please send a copy of extension requests to Deborah Sult, OQA/QATSS, P.O. Box 30307, Mail Stop 455, North Las Vegas, Nevada 89036-0307.

If you have any questions, please contact either James Blaylock at (702) 794-1420 or Richard L. Weeks at (702) 794-1431.

R.W. Clark
for Donald G. Horton, Director
Office of Quality Assurance

OQA:JB-2116

Enclosure:
DR YM-97-D-057

cc w/encl:
T. A. Wood, DOE/HQ (RW-55) FORS
J. O. Thoma, NRC, Washington, DC
S. W. Zimmerman, NWPO, Carson City, NV
B. R. Justice, M&O, Las Vegas, NV
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W. L. Belke, NRC, Las Vegas, NV
R. L. Weeks, OQA/QATSS, Las Vegas, NV
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**OFFICE OF CIVILIAN
RADIOACTIVE WASTE MANAGEMENT
U.S. DEPARTMENT OF ENERGY
WASHINGTON, D.C.**

8 Performance Report
 Deficiency Report
 NO. YM-97-D-057
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PERFORMANCE/DEFICIENCY REPORT

1 Controlling Document: Quality Assurance Requirements and Description (QARD), Revision 7	2 Related Report No. YMP-SR-97-029
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3 Responsible Organization: Civilian Radioactive Waste Management System Management & Operating Contractor (CRWMS M&O)/ University of Nevada at Reno (UNR)	4 Discussed With: David vonSeggren, Norma Biggar, Steve Bodnar
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5 Requirement/Measurement Criteria:

Section 5.2 states, "Work shall be performed in accordance with controlled implementing documents."

Section 2.2.12 states in part, "Each Affected Organization shall establish a program for the evaluation, selection, indoctrination, training, and qualification of personnel performing work subject to the QARD. The program shall:...

H. Ensure the required indoctrination and training for a specified task is completed prior to performing the task."

6 Description of Condition:

Contrary to the above requirement, quality affecting data is being collected using the Global Positioning System (GPS) methodology without an approved and issued procedure. GPS is utilized to obtain coordinate data for the location of seismic stations which are part of the Southern Great Basin Digital Seismic Network. The information obtained from this network supports studies addressed under WBS No. 1.2.3.2.8.4.1, Historical and Current Seismicity. The location coordinates for seismic station designated AMD Armagossa Digital were collected with GPS methodology.

Additionally, there was no documentation that indoctrination or training was required or completed prior to performance of GPS activities.

7 Initiator Richard L. Weeks <i>Richard L. Weeks</i> Date <u>6/11/97</u>	9 Is condition an isolated occurrence? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown; Must be Yes if PR
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10 Recommended Action: (Not required for PR)

- Develop, approve and issue an appropriate procedure to control the collection and processing of data for GPS work activities.
- Identify all quality affecting coordinate data that has been collected prior to the issuance of an approved procedure and verify that values are correct in accordance with an approved procedure.
- Describe appropriate indoctrination or training for GPS activities. Provide documentation that indoctrination or training has been completed by personnel performing GPS activities. Complete indoctrination or training prior to completion of recommended actions 1. and 2. above.

11 QA Review: QAR Richard L. Weeks <i>Richard L. Weeks</i> Date <u>6/18/97</u>	12 Response Due Date 20 working days from issuance
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13 Affected Organization QA manager Issuance Approval: (QAR for PR) Printed Name Donald G. Horton	Signature <i>James B. Layford Jr</i>	Date <u>6/26/97</u>
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22 Corrective Action Verified QAR	Date	23 Closure Approved by: (N/A for PR) AOQAM	Date
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**OFFICE OF CIVILIAN
RADIOACTIVE WASTE MANAGEMENT
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PERFORMANCE/DEFICIENCY REPORT RESPONSE

14 Remedial Actions:

o The UNRSL deficient practice of using a GPS device without procedure to locate placement of seismographs as part of the Southern Great Basis Digital Seismic Network will be corrected by the development of an operating procedure. o Evaluation for adverse impacts from the deficient practice will be conducted by the Seismic Network Manager by redetermining locations of representative stations selected from those previously established under the deficient practice. The process for verification of performance, including data collected and evaluation of the results against formerly established values, will be documented. Should the results be unacceptable, appropriate actions will be taken in accordance with applicable QA procedures. o Regarding documenting indoctrination and training to the GPS work, all active UNRSL employees have been indoctrinated to the YMP program, and when the GPS procedure becomes available, training to its use before performing the GPS activity will be assigned and completed prior to using the GPS in the UNRSL activity, as directed by the UNR Seismic Network Manager.

15 Extent of Condition: (Not required for PR)

The practice of using the global positioning system methodology as described in the deficient conditions has been ongoing since the inception of using this technology for location of the seismic stations.

16 Root Cause Determination: (Not required for PR)

Required: Yes No

17 Action to Preclude Recurrence: (Not required for PR)

Required: Yes No

The Seismic Network Manager is aware of responsibilities to maintain overview of all laboratory and field processes that may be subject to the requirements of QARD Supplement III, including the use of procedures or documentation of methodology in scientific notebooks. The M&O management will be reinforcing this responsibility through overview by both technical management and Engineering Assurance mentoring for technology and activities that may need additional documented methodologies, and training to these methods.

18 Corrective Action Completion Due Date:

10/24/97

19 Response by: Darrell Porter

Darrell Porter

Date 07/25/97

Phone 702-295-5784

20 Response Accepted

QAR

[Signature]

Date 6/6/97

21 Response Accepted (N/A for PR)

DOQA

[Signature]

Date 8/12/97