



Department of Energy

Washington, DC 20585

QA: L

JUN 16 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

ISSUANCE OF DEFICIENCY REPORT (DR) YM-97-D-054 RESULTING FROM OFFICE OF QUALITY ASSURANCE (OQA) SURVEILLANCE M&O-SR-97-033 OF THE ENVIRONMENTAL FIELD PROGRAMS DIVISION

Enclosed is DR YM-97-D-054 generated as a result of OQA Surveillance M&O-SR-97-033.

Please identify the corrective action to be taken and implemented to correct the deficiency. Send the original of your response to Deborah Sult, OQA/QATSS, P.O. Box 30307, Mail Stop 455, North Las Vegas, Nevada 89036-0307. Response to the DR is due 20 working days from the date of this letter. Any extension to the due date must be requested in writing, with appropriate justification, prior to the due date.

If you have any questions, please contact either James Blaylock at (702) 794-1420 or Robert P. Hasson at (702) 794-5023.

James Blaylock
Donald G. Horton, Director
Office of Quality Assurance

OQA:JB-1707

Enclosure:
DR YM-97-D-054

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
R. A. Morgan, M&O, Las Vegas, NV

cc w/o encl:
W. L. Belke, NRC, Las Vegas, NV
R. P. Hasson, OQA/QATSS, Las Vegas, NV
D. G. Sult, OQA/QATSS, Las Vegas, NV
R. W. Clark, DOE/OQA, Las Vegas, NV

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Recip: NMS/HW

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PDR WASTE PDR
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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-054
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PERFORMANCE/DEFICIENCY REPORT

1 Controlling Document: NWI-MET-001Q, Revision 1, ICN 1	2 Related Report No. M&O-SR-97-033
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3 Responsible Organization: Environmental Field Programs Division	4 Discussed With: Dale Ambos and Paul Fransioli
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5 Requirement/Measurement Criteria:

NWI-MET-001Q, Revision 1, ICN 1, Section 3.7, states that, "Alignment checks given in this section are based on the wind direction sensor being mounted on a crossarm oriented to true north and south, with the sensor on the south end of the crossarm."

NWI-MET-001Q, Revision 1, ICN 1, Section 3.7(1), states that, "Before lowering the tilt-down tower (if applicable), stand in a location where the established crossarm orientation landmark is aligned with the center of the crossarm. NOTE: This location should be at least about 60 feet from the base tower."

6 Description of Condition:

Deficiency: There was no documented evidence that the "true north" baseline used to align the wind direction crossarm is accurate. Instruction NWI-MET-001Q identified the acceptable tolerance as (plus or minus) five degrees. This could not be accurately verified.

Discussion: The performance auditor paced off 20 steps and lined the crossarm to a white stake marked approximately 50 yards past the tower and to a notch in the mountain to the north for a "true north" reading. When questioned about the reliability of the white stake, the performance auditor suggested that the white stake could be easily moved or knocked down and, in fact, this has happened in the past. The performance auditor noted that the notch in the mountain was used as the "true north" marker. When requested that documentation be presented to prove the (white stake) marker was surveyed to establish a "true north" mark, none could be provided.

7 Initiator <i>Robert P. Hasson</i> Robert P. Hasson Date 5/23/97	9 Is condition an isolated occurrence? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Unknown; Must be Yes if PR
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- 10 Recommended Action: (Not required for PR)
- 1) Establish permanent surveyed landmarks for the "true north" position and a location 60 feet from the base tower.
 - 2) Provide documentation for survey of "true north."
 - 3) Based on survey results, determine if any actions are necessary to correct previous wind direction historical data.
 - 4) Review Instruction NWI-MET-001Q for necessary revision.
 - 5) Review other remote sites for "true north" criteria and impact of data as necessary.

11 QA Review: QAR <i>Robert P. Hasson</i> Date 6/9/97	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 <i>DG HOLTON</i> Signature <i>James B. [unclear]</i> Date 6/13/97

22 Corrective Action Verified QAR _____ Date _____	23 Closure Approved by: (N/A for PR) AOQAM _____ Date _____
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PR/DR NO. YM-97-D-054

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PERFORMANCE/DEFICIENCY REPORT RESPONSE

14 Remedial Actions:

15 Extent of Condition: (Not required for PR)

16 Root Cause Determination: (Not required for PR)

Required Yes No

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

Required Yes No

18 Corrective Action Completion Due Date:

19 Response by:

Initial

Amended

Date

Phone

20 Response Accepted

QAR

Date

21 Response Accepted (N/A for PR):

AOQAM

Date