



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

SEP 13 1996

L. D. 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 RESPONSE TO DEFICIENCY REPORT (DR) YM-96-D-078  
RESULTING FROM OFFICE OF QUALITY ASSURANCE SUPPLIER AUDIT  
OQA-SA-96-019 OF FRAMATOME TECHNOLOGIES, INC.**

The Yucca Mountain Quality Assurance Division staff has evaluated the response to DR YM-96-D-078. 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, YMQAD/QATSS, P.O. Box 98608, Mail Stop 455, Las Vegas, Nevada 89193-8608.

If you have any questions, please contact either Robert B. Constable at (702) 794-5580 or Patrick V. Auer at (702) 794-1432.

Richard E. Spence, Director  
Yucca Mountain Quality Assurance Division

YMQAD:RBC-2620

Enclosure:  
DR YM-96-D-078

cc w/encl:  
T. A. Wood, DOE/HQ (RW-14) FORS  
J. G. Spraul, NRC, Washington, DC  
S. W. Zimmerman, NWPO, Carson City, NV  
R. L. Strickler, M&O, Vienna, VA  
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cc w/o encl:  
W. L. Belke, NRC, Las Vegas, NV  
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Recip: NMSS/HLW2

OFFICE OF CIVILIAN  
RADIOACTIVE WASTE MANAGEMENT  
U.S. DEPARTMENT OF ENERGY  
WASHINGTON, D.C.

**ORIGINAL**  
☐ Performance Report  
☒ Deficiency Report  
NO. YH-96-D-078  
PAGE 1 OF 2  
QA: L

PERFORMANCE/DEFICIENCY REPORT

1 Controlling Document: Quality Assurance Requirements and Description (QARD)/RW-0333P, Revision 5

2 Related Report No.  
OQA-SA-96-019

3 Responsible Organization: Civilian Radioactive Waste Management System Management and Operating Contractor/Framatome Technologies Inc.

4 Discussed With:  
Jerry Cogar/Emily Mayhew

5 Requirement/Measurement Criteria:

QARD, Revision 5, Section 8.2.1, states in part: "Identification shall be maintained on the items or in manner which ensures that identification is established and maintained" and "Items shall be identified from the time of initial fabrication, or receipt, up to and including installation or end use."

6 Description of Condition:

Contrary to the above:

Material traceability (e.g., Heat/Lot Number) for Carbon Steel, Inconel (Alloy 825) and Copper-Nickel base material and associated weld filler materials used to develop procedure qualification records (PQR) 7082, 7096, and 7097 for Waste Package Closure Development could not be verified or traced from material receipt through the process documentation to end use.

7 Initiator

Patrick V. Auer

Date 7-31-96

9 Is condition an isolated occurrence?

☐ Yes

☐ No

☒ Unknown; Must be Yes if PR

10 Recommended Action: (Not required for PR)

1. Determine the impact of QA requirements for material traceability not being incorporated into the results and conclusions in the Waste Package Closure Weld Development Report (BBA000000-01717-2500-00006, Revision 00).
2. Determine status, qualified or non-qualified, of data presented in Waste Package Closure Weld Development Report (BBA000000-01717-2500-00006, Revision 00).
3. Determine the cause of deficient condition.
4. Determine and implement actions to preclude recurrence.

11 QA Review:

QAR

Patrick V. Auer

Date

7-31-96

12 Response Due Date

20 Working Days From Issuance

13 Affected Organization QA manager Issuance Approval: (QAR for PR)

Printed Name

RESPENCE

Signature

RBCountable

Date

8-6-96

22 Corrective Action Verified

QAR

Date

23 Closure Approved by: (N/A for PR)

AOQAM

Date

CASE OF CIVILIAN  
RADIOACTIVE WASTE MANAGEMENT  
U.S. DEPARTMENT OF ENERGY  
WASHINGTON, D.C.

8  
PR/DR NO. DR YH-96-D-078  
PAGE 2 OF 2  
QA: L

PERFORMANCE/DEFICIENCY REPORT RESPONSE

14 Remedial Actions:

The remedial action will consist of the weld samples being designated as unqualified samples. There is no other impact. The data presented in the report is not affected because Westmoreland laboratory verifies in their COC to FTI that the material was as described and that the testing was done to their quality program which was audited as safety related by FTI. The critical characteristics are the type of material which was identified and not the chemical content. The data is used only to prove the feasibility of welding the waste package with this method.

15 Extent of Condition: (Not required for PR)

The deficiency identified in block 6 is limited to the development program. The extent is the Closure Weld Report and weld samples generated from this program.

16 Root Cause Determination: (Not required for PR)

Required ☒ Yes ☐ No

The root cause is the same as for DR YH-96-D-077. The traceability was not maintained because the program was conducted under the non-safety related program instead of the safety related program.

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

Required ☒ Yes ☐ No

The action to preclude recurrence is to state in the implementing document for future work that the program will be conducted to safety related program. Additionally the implementing document will specify that material traceability will be maintained and documented.

18 Corrective Action Completion Date:

30 SEPT 1996

19 Response by:

☒ Initial *John J. Nori for A. Segre*  
☐ Amended Date 9-8-96 Phone 794-1924

20 Response Accepted

QAR

Date 9-9-96

21 Response Accepted (N/A for PR):

AOQAM

Date 9/11/96