



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

OCT 16 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

**VERIFICATION OF CORRECTIVE ACTION AND CLOSURE OF 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 staff has verified the corrective action to Deficiency Report (DR) YM-96-D-078 and determined the results to be satisfactory. As a result, the DR is considered closed.

If you have any questions, please contact either Mario R. Diaz at (702) 794-1489 or Patrick V. Auer at (702) 794-1432.

Richard E. Spence  
Yucca Mountain Quality Assurance

YMQA:MRD-0093

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  
B. R. Justice, M&O, Las Vegas, NV  
Records Processing Center

cc w/o encl:  
W. L. Belke, NRC, Las Vegas, NV  
P. V. Auer, YMQA/QATSS, Las Vegas, NV  
D. G. Sult, YMQA/QATSS, Las Vegas, NV  
D. G. Horton, DOE/OQA, Las Vegas, NV

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PDR WASTE  
WM-11 PDR

Recip: NMSS / PAHL

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

**ORIGINAL**  
Performance Standard  
 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 *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)

- 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).
- Determine status, qualified or non-qualified, of data presented in Waste Package Closure Weld Development Report (BBA000000-01717-2500-00006, Revision 00).
- Determine the cause of deficient condition.
- 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 *R. B. Countable*

Date 8-6-96

22 Corrective Action Verified

QAR *Patrick V. Auer* Date 10-8-96

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

AOQAM *J. C. [Signature]*

Date 10/15/96

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

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PR/DR NO. DR YM-96-D-078  
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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 YM-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. Norr for A. Seyruse  
 Amended Date 9-03-96 Phone 794-1924

20 Response Accepted

QAR D. Almer

Date 9-9-96

21 Response Accepted (N/A for PR):

AOQAM [Signature]

Date 9/11/96

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

8  Performance Report  
 Deficiency Report

NO. YM-96-D-078

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QA: L

PR/DR CONTINUATION PAGE

Verification of corrective actions for DR YM-96-D-078 was performed on October 8, 1996. The response to the DR adequately explains action to prevent recurrence.

Based on the technical justification (use of data) provided in the response and review of M&O Interoffice Correspondence #LV.WP.JAC.10/96-238 which designated the weld samples as "unqualified" it is recommended that DR YM-96-D-078 be closed.

*Pat Allen 10-8-96*

DL Ym-96-D-078

**Interoffice Correspondence**  
**Civilian Radioactive Waste Management System**  
**Management & Operating Contractor**



TRW Environmental  
Safety Systems Inc.

WBS: 1.2.2.3.4  
QA: L

**Subject**  
Weld Samples From the Waste  
Package Closure Weld  
Program of FY-96  
(SCPB: N/A)

**Date**  
October 3, 1996  
LV.WP.JAC.10/96-238

**From**  
J. A. Cogar

**To**  
David Stahl

**cc**  
P. V. Auer  
RPC

**Location**  
TES3/423  
(702)794-5387

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This is a follow up to our earlier conversations about the weld samples sent to LLNL after the Waste Package Closure Weld Program was completed. All weld samples resulting from this program must be considered as "unqualified". This results from Framatome Technologies, Inc. use of its non-safety related program which permitted the use of vendors not on their qualified supplier list.



**Interoffice Correspondence**  
**Civilian Radioactive Waste Management System**  
**Management & Operating Contractor**

TRW Environmental  
Safety Systems Inc.

WBS: 1.2.2.3.4  
QA: L

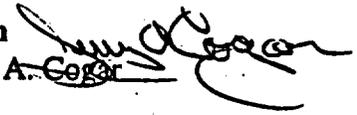
**Subject**

Closure of DR's YM-96-D-077, YM-96-D-078, and YM-96-D-079 (SCPB: N/A)

**Date**

October 1, 1996  
LV.WP.JAC.10/96-234

**From**

Jerry A.   
Coker

**To**

Richard L. Maudlin

**cc**

G.S. Abend  
P.V. Auer  
Hugh A. Benton  
J.J. Clark  
RPC

**Location/Phone**

TES3/423  
(702)794-5387

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The transmittal of IOC's LV.WP.JAC.08/96-208 and LV.WP.JAC.09/96-217, implement the response to the subject DR's. I trust this will be sufficient to close these issues. If there are any other outstanding issues please contact the writer so they be promptly resolved. Please notify the writer of closure.