

A4171

PDR-1
LPDR- WM-10(2)
WM-11(2)
WM-16(2)

SEP 9 1987

426.1/EAW/9/8/87

Dr. Charles Interrante, Program Manager
Metallurgy Division - Corrosion Group
National Bureau of Standards
U.S. Department of Commerce
Gaithersburg, MD 20899

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88132294
WM Project: WM-10, 11, 16
PDR yes
(Return to WM, 623-SS)

WM Record File: A-4171
LPDR yes

Dear Dr. Interrante:

We have reviewed NBS' Monthly Letter Report for July 1987 for FIN A-4171, "Evaluation and Compilation of DOE Waste Package Test Data," and our comments are presented below.

1. Page 15, Comments

The last sentence of the second comment states that there is insufficient evidence to conclude that hydrogen embrittlement is not responsible for the observed crack propagation (in slow strain rate testing of BWIP candidate container materials, i.e., ASTM A387 Gr. 9 (9Cr-1Mo wrought steel) and ASTM 27 (cast steel)).

This comment would be more informative if it also summarized the type of additional evidence that is needed to support the conclusion that hydrogen embrittlement was not responsible for the crack propagation.

2. Please revise the addressee list of the monthly progress letter and the biannual report to conform with the distribution shown in your proposal of July 30, 1987 (page 14, paragraph 6.4, Report Distribution).

Please call me if you have any questions or if you wish to discuss this.

Actions resulting from this letter are considered to be within the scope of FIN A-4171. No changes in costs or delivery of contracted products are authorized. Please notify me immediately if you feel this letter will result in additional costs or delay in delivery of contracted products.

Sincerely,

[Handwritten signature]

Everett A. Wick
Technical Review Branch
Division of High-Level Waste Management
Office of Nuclear Material Safety
and Safeguards

cc: Dr. Neville Pugh, Director
Metallurgy Division

Dr. William Ruff, Group Leader
Corrosion Group - Metallurgy Division

WM-RES
WM Record File
A4171
NBS

WM Project 10, 11, 16
Docket No.

PDR
XLPDR (B, N, S)

Distribution:

(Return to WM, 623-SS)

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A-4171 PDR

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SEP 9 1987

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OFFICIAL CONCURRENCE AND DISTRIBUTION RECORD

LETTER TO: Dr. Charles Interrante, Program Manager
 Metallurgy Division - Corrosion Group
 National Bureau of Standards
 U.S. Bureau of Commerce
 Gaithersburg, MD 20899

FROM: Everett A. Wick
 Technical Review Branch
 Division of High-Level Waste Management, NMSS

SUBJECT: LETTER TO DR. INTERRANTE, JULY PROGRESS REPORT A4171

DATE: September 9, 1987

DISTRIBUTION WM ACTION 87372

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CONCURRENCES

ORGANIZATION/CONCUREE	INITIALS	DATE CONCURRED
HLTR/EWick/cj	<u>EAW</u>	87/09/09
HLTR/RWeller	<u>R.A.W.</u>	87/09/09

* original + cc's: delivered 9/9/87