



**NIST**

**UNITED STATES DEPARTMENT OF COMMERCE**  
**National Institute of Standards and Technology**  
Gaithersburg, Maryland 20899

August 15, 1990

Dr. Charles Interrante  
Materials Engineering Section  
Division of High-Level Waste Management  
Office of Nuclear Materials Safety and Safeguards  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

Dear Dr. Interrante:

This letter is in keeping with our recent conversations regarding work that the National Institute of Standards and Technology (NIST) is performing for the Nuclear Regulatory Commission (NRC) under FIN A4171. "Evaluation and Compilation of DOE Waste Package Test Data". The work on the interpretative papers has continued. As we discussed earlier, two of the topics have been changed from the topics given in the January 16, 1990 letter from the NRC regarding this matter. Also, the due dates have been changed. The topics and 1990 due dates for these papers are given below. For the reports on laboratory studies, the topics and due dates also are given below.

Interpretative Papers

<u>Author</u>	<u>Subject</u>	<u>Draft Due</u>
R. Ricker	Mechanisms of Stress Corrosion Cracking	Sept. 30
U. Bertocci	Mechanisms of Aqueous Corrosion of Copper	Sept. 30
A. Fraker	Mechanisms of Internal Corrosion of Spent Fuel Rods	Sept. 30

Laboratory Work

<u>Investigator</u>	<u>Subject</u>	<u>Draft Due</u>
E. Escalante	Plan for Retrieval and Examination of 20 Year Old Steel Specimens	Sept. 30
A. Fraker	Effect of Specific Ions on Passivity of Zircaloy	Sept. 30

These deliverables are in addition to the bimonthly and biannual reports that we have submitted to the NRC. Biannual reports, Volumes 6 and 7 have been submitted to the NRC and are now in the editing stage prior to publication. Volume 8 has been prepared and is being submitted to the

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NIST Washington Editorial Review Board for approval. These biannual reports contain reviews that have been conducted by the NIST and are in the NIST/NRC database. There are now 1341 entries in the database, and 100 of these are completed reviews.

We hope that these deliverables will be useful to the NRC. Please let us know if there are questions regarding these deliverables.

Sincerely,

*Anna C. Fraker*

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Metallurgist  
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