



UNITED STATES DEPARTMENT OF COMMERCE  
National Bureau of Standards  
Gaithersburg, Maryland 20899

WM DOCKET CONTROL  
CENTER

'86 JUL 21 P12:49

July 15, 1986

Mr. Everett A. Wick  
Division of Waste Management  
Office of Nuclear Materials Safety and Safeguards  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

Re: Monthly Letter Status Report for June 1986 (FIN-A-4171-6)

Dear Mr. Wick:

Enclosed is the June 1986 monthly progress report for the project  
"Evaluation and Compilation of DOE Waste Package Test Data"  
(FIN-A-4171-6). The financial information is reported separately.

Sincerely,

Charles G. Interrante  
Program Manager  
Corrosion Group  
Metallurgy Division

1 Enclosure

Distribution:  
NMSS PM (1)  
Office of the Director, NMSS  
(Attn: PPAS) (1)  
WM Div. Director (1)  
WMEG Branch Chief (1)  
WMEG Branch Materials  
Engineering Sec. Leader (1)  
WM Docket Control Center (4)  
Office of Research (1)  
Office of Resource Mgmt. (1)  
Div. of Automated Services  
(ATTN: Director)

WM-RES  
WM Record File  
(A4171)  
NBS

WM Project 10, 11, 16  
Docket No. \_\_\_\_\_  
PDR ✓  
LPDR ✓ (B, N, S)

8608060034 860715  
PDR WMRES EUSNBS  
A-4171 PDR

Distribution:  
\*EWICK  
\*Joan-ticket

(Return to WM, 020-SS)

Sac

3227

Monthly Letter Report for June, 1986

Published June 1986

(FIN-A-4171-6)

Performing Organization: National Bureau of Standards  
Gaithersburg, MD

Sponsor: Nuclear Regulatory Commission  
Office of Nuclear Materials Safety and Safeguards  
Silver Spring, MD 20910

TASK 1 -- Review of Waste Package Data Base

WERB Reviews --

Revised procedures for obtaining NBS publication approval through the Washington Editorial Review Board (WERB) have been submitted to WERB and approval is expected in July, so that we can anticipate that reviews will begin to be processed through WERB next month. Under the proposed plan for WERB review and approval, each NBS review would be approved separately and each would have an NBS author, who is identified internally, i.e. at NBS only. Thus, each of the reviews that will be included in the Draft of the Semi-Annual Report due on August 31 would be approved separately.

In July, we would send you copies of our Draft Reviews, so as to obtain comments by NRC and its contractors -- we acknowledge that in our proposal for this contract we had anticipated that Draft Reviews would be available on February 28, and May 31 of 1986, and these drafts are therefore late. These comments could then be incorporated into the revised draft that is submitted as an approved report, which has a due date of November 30, 1986.

SRP and BWIP --

No reviews were initiated or completed during this month. However, we note that numerous works have been received from BWIP and these are being classified for work to begin formally on them next month.

NNWSI --

Reviewers have been assigned to the following reports:

1. HEDL-TME 7782 (UC-83) "Inventory and Characterization of Spent LWR Fuel" C. W. Funk, L. D. Jacobson, April 1979.

2. LA-10188-MS "Groundwater Chemistry Along Flow Paths Between a Proposed Repository Site and the Accessible Environment" A. E. Ogard, J. F. Kerrisk, Los Alamos National Lab., November 1984.
3. UCRL 94222 "Important Radionuclides in High Level Nuclear Waste Disposal: Determination Using a Comparison of the EPA and NRC Regulations" V. M. Oversby, Lawrence Livermore Nat'l. Lab, February 1986.
4. HGDL 754 "C-Ring Stress Corrosion Cracking Scoping Experiment for Zircaloy Spent Fuel Cladding" H. D. Smith, Westinghouse-Handford Engineering Dev. Lab., March 1986.
5. HEDL 7545 "Zircaloy Spent Fuel Cladding Electrochemical Corrosion Experiment at 170°C and 120 psia H<sub>2</sub>O" H. D. Smith, Westinghouse-Handford Engineering Dev. Lab., April 1986.

TASK 2 -- Identification of Additional Data Required and Identification of Tests to Generate the Data

NBS lead workers are continuing their studies concerning the types of additional data (and the types of verification tests) needed to demonstrate that the DOE waste package designs will meet the performance objectives of 10 CFR 60. As part of this work, preliminary plans for laboratory tests, to be conducted at the NBS under Task 3 of this contract, have been developed. They were discussed briefly and submitted informally to NRC staff, as written preliminary proposals, during a Program Review held at the NBS on June 30, 1986. It is expected that after further joint NRC/NBS consideration, the proposals will be modified and this work will be initiated this Summer.

TASK 4 -- General Technical Assistance

In response to your request for general technical assistance dated April 7, 1986, lead workers had been reviewing pertinent documents that would permit them to effectively assist in reviewing the Department of Energy's Final Environmental Assessment for five sites: Hanford (BWIP); Yucca Mountain (NNWSI); Deaf Smith, Davis Canyon, and Richton Dome (Salt). Each lead worker has been assigned an assistant for working on the NBS response to your request for assistance on this item. Other staff will be available on an as needed basis.