



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

November 18, 1986

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'86 NOV 19 P3:38

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 October 1986 (FIN-A-4171-6)

Dear Mr. Wick:

Enclosed is the 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

Charles G. Interrante
Program Manager
Corrosion Group
Metallurgy Division

Enclosures

WM-RES
WM Record File
A-4171
NB3

WM Project 10, 11, 16
Docket No. _____
PDR ☒
LPDR B, M, S

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Monthly Letter Report for October, 1986

Published November 1986

(FIN-A-4171-6)

Performing Organization: National Bureau of Standards
Gaithersburg, MD 20899

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 -- A draft of the semi-annual report is being reviewed by Washington Editorial Review Board (WERB), and their review should be completed within the time required to permit a final report to be issued by November 30, 1986.

SRP -- Preliminary reviews have been conducted for the following two reports. These reviews indicate to us that formal reviews of these reports will not be required.

1. DOE/CH/10140-03(85-4), "Salt Repository Project Technical Progress Report for the Quarter, July 1-September 30, 1985, prepared for the U.S. Department of Energy by the Office of Nuclear Waste Isolation, Battelle Project Management Division
2. DOE/CH/10140-03(86-1), "Salt Repository Project Technical Progress Report for the Quarter, October 1-December 31, 1985, prepared for the U.S. Department of Energy by the Office of Nuclear Waste Isolation, Battelle Project Management Division

BWIP -- The following reports have been identified for review and will be reviewed as soon as a suitable reviewer has been identified.

1. RHO-BW-SA-560-P, "Status of Environmentally Assisted Cracking Studies by the Basalt Waste Isolation Project," March 1986.
2. RHO-BW-SA-416-P, "Sorption and Desorption Reactions of Radionuclides with a Crushed Basalt-Bentonite Packing Material," April 1985.
3. RHO-BW-SA-509-P, "Thermal Analysis of Waste Package Preliminary Reliability Assessment," March 1986.
4. B047154, "BWIP General Corrosion Studies - Yearly Summary Report for FY-1984"

NNWSI -- Review has been initiated on the following report this month:

1. UCRL-15825, "The Effect of Gamma Radiation on Groundwater Chemistry and Glass Leaching as Related to the NNWSI Repository Site", LLNL, May 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 verification tests needed to demonstrate that the DOE waste package designs will meet the performance objectives of 10 CFR 60. Presently, no parts of the NBS preliminary plans for laboratory tests to be conducted at the NBS under Task 3 of this contract have been approved. Revised versions of three of these proposals are being prepared for further consideration: (1) "Corrosion of Metals in Simulated Repository Environments, (2) "Test Methods and Localized Corrosion Behavior of Steels and Titanium Alloys", and (3) "Use of Fracture Mechanics Tests for Detecting Degradation Effects". Proposal (2) will include work on zircalloys.

TASK 4 -- General Technical Assistance

Our reply to your request dated Sept. 2, 1986 for short-term technical assistance for review of "Repository Environmental Parameters Relevant to Assessing the Performance of High Level Waste Package in Basalt, Tuff, and Salt," NUREG/CR-4134, by H.C. Claiborne, et al. was sent October 16, 1986.

FROM Charles G. Interrante Dept. of Commerce		DATE OF DOCUMENT 9/16/86		DATE RECEIVED 9/1/86		NO WM86-794	
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August monthly status report for FINA4171		JT Greeves		9/18			
ENCLOSURES							
REMARKS							
Our comments were discussed by me with the Program Mgr (Charles Interrante) on Oct. 16, 1986. That completes this action.							
Everett Wick 10/17/86							

U. S. NUCLEAR REGULATORY COMMISSION

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