

WM File 426.1 A41  
WMEG r/f  
NMSS r/f  
REBrowning  
MJBell  
LHBarrett  
JTGreeves  
TCJohnson  
EAWick  
KCChang & r/f  
MRKnapp  
LBHigginbotham  
HJMiller  
RJWright  
PDR  
LPDR (B, N, S)

KCCHANG/84/07/30

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Mr. Kenneth W. Stephens  
Manager, Technology Assessment  
The Aerospace Corporation  
955 L'Enfant Plaza, SW  
Washington, DC 20024

JUL 31 1984

Dear Mr. Stephens:

We have reviewed Aerospace's June report for the project entitled "Preparation of Engineering Analysis for High-Level Waste Packages in Geologic Repositories," (FIN A-4165). We are satisfied with the progress reported.

BWIP has recently published quite a few reports on the waste package, corrosion and waste package environments. A few of those reports are:

1. Anantatmula R. P., Delegard C. H., and Fish R. L.  
"Corrosion Behavior of Low-Carbon Steels in Grande Ronde Basalt Groundwater in the Presence of Basalt - Bentonite Packing"  
RHO-BW-SA-314P, November 1983
2. Grandstaff D. E., McKeon G. L., Moore E. L. and Ulmer G. C.  
"Reactions in the System Basalt/Simulated Spent Fuel/Water"  
RHO-BW-SA-317P, November 1983
3. Apted M. J.  
"Laboratory and Field Data Needs for Site-Specific Repository Modeling"  
RHO-BW-SA-321P, November 1983
4. Fish, R. L. Anantatmula R. P.  
"Preliminary Corrosion Models for BWIP Canister Materials"  
SD-EWI-TI-159, April 30, 1984
5. Coles D. G., Apted M. J.  
"The Behavior of <sup>99</sup>T<sub>2</sub> in Doped-Glass/Basalt Hydothermal Interaction Tests" RHO-BW-SA-319P/PNL-SA-11456, November 1983

The Battelle Columbus Laboratories have also published their Annual Report, (Year Two, April 1983 - April 1984) for the NRC Research sponsored project "Long-term Performance of Materials Used for High-Level Waste Packaging."

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We would like to have these documents included as candidates for detailed review by Aerospace on waste package performance methodology review.

Progress of review of these documents should be reported in the monthly progress report.

The actions resulting from this letter are considered to be within the scope of FIN A-4165. No change to costs or delivery of contracted products are authorized. Please advise me immediately if you feel that this letter would result in changes to costs or delivery of contracted products.

Original Signed By:

Kien C. Chang  
Engineering Branch  
Division of Waste Management

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