

JAN 2 1985

426.1/KCC/1/3/85/WM-41171

- 1 -

- NMSS
- REBrowning
- MJBell
- LHBarrett
- TCJohnson
- KCChang
- EAwick
- HJMiller
- JOBunting
- MRKnapp
- LBHigginbotham
- PDR
- LPDR (B,N,S)

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

Dear Mr. Stephens:

We have reviewed Aerospace's November report for the project entitled, "Preparation of Engineering Analysis for High-Level Waste Packages in Geologic Repositories" (FIN A-4165). Our comments are presented in this letter.

We read with interest the Aerospace's report on the recent Boston meeting of the Materials Research Society. Until DOE's data on in-situ experiments are available, the various test results on the waste forms, packing, overpack and canister materials discussed in this meeting and in your report are the most appropriate test data DOE has at present for waste package performance. Please include discussion of these test data in your final project report.

I am enclosing a list of DOE's performance assessment plans (PAP) and environmental assessment documents (EA). Please review the methods used in these documents. We are interested in Aerospace's assessment on the following items: (a) the degree of reliance DOE can be expected to use these methods for their waste package evaluation and (b) the acceptability of the methods for NRC licensing of DOE's waste package designs.

The DOE/NRC workshops on DOE's waste packages are being planned to be held in the first quarter of calendar year 1985. Please plan to attend these workshops. I shall inform you of any progress in these workshops.

A project meeting on "Licensing Assessment Methodology Integration Project" (FIN A-1165) is also being planned to take place in Sandia National Laboratory (SNL). I am coordinating with Leslie Peeters, the NRC manager for FIN A-1165 to have Aerospace represented in the meeting. Please plan to brief SNL on work progress in FIN A-4165.

*WM-RES*

WM Record File A-4165

*Aerospace*

WM Project 10, 11, 16

Docket No. \_\_\_\_\_

PDR

LPDR B,N,S

Distribution: \_\_\_\_\_

\_\_\_\_\_

(Return to WM, 623-SS) \_\_\_\_\_ 23

OFFICE : WMEG <i>dc</i> : WMEG	:	:	:	:	:
NAME : KCChang:gh : TCJohnson	:	:	:	:	:
DATE : 1/2/85 : 1/2/85	:	:	:	:	:

8501290695 850102  
PDR WMRES EECAEROS  
A-4165 PDR

1775


JAN 2 1985

426.1/KCC/1/3/85/WM-41171

- 2 -

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.

Sincerely,



Kien C. Chang  
Engineering Branch  
Division of Waste Management

Enclosure:  
As stated

OFC	:WMEG	<i>bc</i>	:WMEG	:	:	:	:	:
NAME	:KCChang:gh		:TCJohnson	:	:	:	:	:
DATE	:1/2/85		:1/ /85	:	:	:	:	:

Enclosure

DOE DOCUMENTATION ON PERFORMANCE ASSESSMENT

BWIP

1. Basalt Waste Isolation Project Performance Assessment Plan  
SD-GWI-PAP-001, Rockwell Hanford Operations, 7/2/84
2. Draft Environmental Assessment, Reference Repository Location,  
Hanford Site, Washington  
DOE/RW-0017; December 1984, Section 6.4

Salt

1. Performance Assessment Plans and Methods for the Salt Repository Project  
BMI/ONWI-545, August 1984
2. Draft Environmental Assessment, Lavendar Canyon Site, Utah DOE/RW-0009,  
December 1984
3. Draft Environmental Assessment, Davis Canyon Site, Utah  
DOE/RW-0010, December 1984
4. Draft Environmental Assessment, Cypress Creek Dome Site, Mississippi  
DOE/RW-0011, December 1984
5. Draft Environmental Assessment, Richton Dome Site, Mississippi  
DOE/RW-0013, December 1984
6. Draft Environmental Assessment, Deaf Smith County Site, Texas  
DOE/RW-0014, December 1984
7. Draft Environmental Assessment, Swisher Country Site, Texas  
DOE/RW-0015, December 1984
8. Draft Environmental Assessment, Vacherie Dome Site, Louisiana  
DOE/RW-0016, December 1984, Section 6.4

TUFF

1. Draft Environmental Assessment, Yucca Mountain Site, Nevada  
Research and Development Area, Nevada. DOE/RW-0012, December 1984