

426.1/D1021/87/08/04/WF

- 1 -

*Wm-RES*  
WM Record File  
*D1021*  
*NNWSI*

*PDR-1*  
*LPDR- Wm-10 (2)*  
*Wm-11 (2)*  
*Wm-16 (2)*

Mark J. Logsdon, Project Manager  
Nuclear Waste Consultants Inc.  
Suite 14  
8341 S. Sangre de Cristo Rd.  
Littleton, CO 80127

WM Project 10, 11, 16  
Docket No. \_\_\_\_\_  
PDR \_\_\_\_\_  
LPDR \_\_\_\_\_

Distribution: \_\_\_\_\_  
\_\_\_\_\_  
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(Return to WM, 623-SS)

Dear Mr. Logsdon:

We have reviewed the NNWSI Technical Description Summaries dated June 24, 1987, Communication No. 173 and the draft version of Technical Report #8. Upon completion of our review we have made the following observations:

1. Technical Report #8, "The Use of Environmental Tracers for the Estimation of Recharge at Yucca Mountain: a Summary", should be updated with respect to NUREG/CR-4912 and then issued as a final report.
2. Work is authorized to begin on Task Descriptive Summary #1, "An Overview of Recharge Estimates" and Task Descriptive Summary #3, "Analysis of Data Available for the Evaluation of Flow and Transport at Yucca Mountain".
3. Work should be stopped on Task Descriptive Summary #4, "Capillary Barrier Effects at Hydrogeologic Unit Interfaces in the Unsaturated Zone at Yucca Mt." We do not feel that it would be useful to conduct this type of study with UNSAT2 at this time. However, work is authorized for a short paper on whether capillary barriers exist under steady state flow conditions. This paper should be brief and be well referenced. We intend to use this paper as a starting point for discussions with the U.S. Department of Energy and the U.S. Geological Survey.

If you have any questions please contact William Ford (301-427-7527).

The action taken by this letter is considered to be within the scope of the current contract NRC-02-85-009. No changes to costs or delivery of contracted products are authorized. Please notify me immediately if you believe this letter would result in a change to costs or delivery of contracted products.

Sincerely,

**ORIGINAL SIGNED BY**

Jeffrey A. Pohle, Project Officer  
Technical Review Branch  
Division of High-Level Waste Management  
Office of Nuclear Material Safety  
and Safeguards

87232838

WM Project: WM-10, 11, 16

PDR yes

(Return to WM, 623-SS)

WM Record File: *H* *D1021*

LPDR yes

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PDR WMRES EECNWSI  
D-1021 PDR

cc: Lyle Davis, WW&L Inc.

*3905*

AUG 7 1987

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LETTER TO: Mark J. Logsdon, Project Manager  
 Nuclear Waste Consultants Inc.  
 Suite 14  
 8341 S. Sangre de Cristo Rd.  
 Littleton, CO 80127

FROM: Jeffrey A. Pohle, Project Officer  
 Technical Review Branch  
 Division of High-Level Waste Management  
 Office of Nuclear Material Safety  
 and Safeguards

SUBJECT: AUTHORIZATION OF WORK DESCRIBED IN TECHNICAL DESCRIPTION  
 SUMMARIES

DATE: 87/08/

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CONCURRENCES

ORGANIZATION/CONCUREE	INITIALS	DATE CONCURRED
HLTR/WFord	<u>W Ford</u>	87/08/07
HLTR/JPohle	<u>JPohle</u>	87/08/07
HLTR/DChery	<u>DChery</u>	87/08/07

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