



**Department of Energy**  
Office of Civilian Radioactive Waste Management  
Office of Repository Development  
1551 Hillshire Drive  
Las Vegas, NV 89134-6321

QA: N/A  
Project No. WM-00011

APR 07 2004

OVERNIGHT MAIL

**ATTN: Document Control Desk**  
Chief, High-Level Waste Branch DWM/NMSS  
U.S. Nuclear Regulatory Commission  
11555 Rockville Pike  
Rockville, MD 20852-2738

ADDITIONAL INFORMATION REQUESTED FOR KEY TECHNICAL ISSUE (KTI)  
AGREEMENTS FOR UNSATURATED AND SATURATED ZONE FLOW UNDER  
ISOTHERMAL CONDITIONS (USFIC) 5.05 AND RADIONUCLIDE TRANSPORT  
(RT) 2.09

References: (1) Ltr, Ziegler to Schlueter, dtd 7/2/02  
(2) Ltr, Ziegler to Chief, High-Level Waste Branch (NRC), dtd 10/2/03 (*Technical Basis Document No. 11: Saturated Flow and Transport, Revision 2*)

This letter transmits a CD containing revised Yucca Mountain, Nevada, geologic cross sections (enclosure 1). These cross sections for Nye-1, Nye-2, and Nye-3 supersede the cross sections transmitted to the U.S. Nuclear Regulatory Commission (NRC) in Reference 1. Enclosure 2 provides the document file format information for Enclosure 1.

The cross sections were updated based on recently qualified data from the Nye County Early Warning Drilling Program borehole logs, and were referenced in Appendix B of the enclosure to Reference 2. The U.S. Department of Energy considers the revised cross sections, in conjunction with the information in Appendix B of Reference 2, sufficient information to address Agreements USFIC 5.05 and RT 2.09. Pending review by the NRC, these KTI agreements should be closed. The revised sections are provided electronically in pdf format to allow the NRC the ability to view them at various scales.

NM 35 07  
WM-11

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There are no new regulatory commitments in the body or the enclosures of this letter. If you have any questions concerning this letter and its enclosures, call Carol L. Hanlon at (702) 794-1324 or e-mail at [carol\\_hanlon@ymp.gov](mailto:carol_hanlon@ymp.gov).

  
Joseph D. Ziegler, Director  
Office of License Application and Strategy

OLA&S:CLH-1009

Enclosures:

1. CD: Subsurface Geologic  
Interpretations Along Cross Sections  
Nye-1, Nye-2, and Nye-3, Southern Nye  
County, Nevada - 2002 (2 Plates)
2. Document File Format Information of CD

APR 07 2004

cc w/encls:

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## Enclosure 2

### Document File Format Information of CD

The enclosed CD contains two plates requested by NRC staff for their review of *Technical Basis Document No. 11: Saturated Zone Flow and Transport*.

The plates are in pdf format.

#### Referenced Documents:

Plate 1: GS031108314211.005. Subsurface Geologic Interpretations Along Cross Sections Nye-1, Nye-2, and Nye-3, Southern Nye County, Nevada -- 2002. Plate 1 of 2. Submittal date: 11/21/2003.

Plate 2: GS031108314211.005. Subsurface Geologic Interpretations Along Cross Sections Nye-1, Nye-2, and Nye-3, Southern Nye County, Nevada -- 2002. Plate 2 of 2. Submittal date: 11/21/2003.

These files are included in the following files:

<u>Directory/File Name</u>	<u>Size (bytes)</u>	<u>Date</u>	<u>Time</u>	<u>Sensitivity Level</u>
YMP Geologic Cross Sections-Plate 1.pdf,	11,532,913,	2/2/04,	2:25 AM	Publically Available
YMP Geologic Cross Sections-Plate 2.pdf,	3,705,160,	3/18/2004,	1:17 PM	Publically Available

2 File(s): 15,238,073 bytes