



Department of Energy
Office of Civilian Radioactive Waste Management
Office of Repository Development
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QA: N/A
Project No. WM-00011

AUG 31 2004

OVERNIGHT MAIL

ATTN: Document Control Desk
Director, Division of High-Level Waste
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TRANSMITTAL OF APPENDIX D OF THE *TECHNICAL BASIS DOCUMENT NO. 10: UNSATURATED ZONE TRANSPORT ADDRESSING KEY TECHNICAL ISSUE (KTI) AGREEMENT EVOLUTION OF NEAR FIELD ENVIRONMENT (ENFE) 1.04*

Reference: Ltr, Ziegler to Director, Division of High-Level Waste Repository Safety (NRC), dtd 5/26/04 (Transmittal of Technical Basis Document No. 10: Unsaturated Zone Transport, Revision 1)

This letter transmits Appendix D of the *Technical Basis Document No. 10: Unsaturated Zone Transport*. Appendix D, *Effects of Cementitious Material on Unsaturated Zone Flow and Transport*, provides a direct response to ENFE 1.04 (enclosure 1). A compact disk (CD) of this appendix is in Enclosure 2. The CD contains a pdf file with 1,748 KB, and is publicly available. This appendix provides documentation of the technical basis for evaluating the impact of emplaced cementitious materials on the hydrologic properties of the unsaturated zone below the planned repository horizon and consequent effects on radionuclide transport in this region.

The U.S. Department of Energy considers KTI Agreement ENFE 1.04 to be fully addressed in Appendix D, and pending review and acceptance by the U.S. Nuclear Regulatory Commission, it should be closed.

There are no new regulatory commitments in the body or the enclosures to this letter. Please direct any questions concerning this letter and its enclosures to Joe C. Price at (702) 794-1441 or e-mail joe_price@ymp.gov, or Deborah L. Barr at (702) 794-1479 or e-mail deborah_barr@ymp.gov.


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

OLA&S:JCP-1434

Enclosures:

1. Appendix D, *Effects of Cementitious Material on Unsaturated Zone Flow and Transport*, Revision 1
2. CD of Enclosure 1

Director, Division of High-Level Waste
Repository Safety

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