



Department of Energy
Office of Civilian Radioactive Waste Management
Office of Repository Development
1551 Hillshire Drive
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QA: N/A
Project No. WM-00011

MAY 28 2004

OVERNIGHT MAIL

ATTN: Document Control Desk
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TRANSMITTAL OF APPENDIX L OF THE *TECHNICAL BASIS DOCUMENT NO. 6: WASTE PACKAGE AND DRIP SHIELD CORROSION*, ADDRESSING KEY TECHNICAL ISSUE (KTI) AGREEMENT RELATED TO TOTAL SYSTEM PERFORMANCE ASSESSMENT AND INTEGRATION (TSPA) 3.03 ADDITIONAL INFORMATION NEEDED (AIN)-1

Reference: Ltr, Ziegler to Chief, High-Level Waste Branch, dtd 12/9/03 (Transmittal of Report Technical Basis Document No. 6: Waste Package and Drip Shield Corrosion Addressing Key Technical Issue (KTI) Agreements Related to Container Life and Source Term (CLST) and Repository Design and Thermal Mechanical Effects (RDTME))

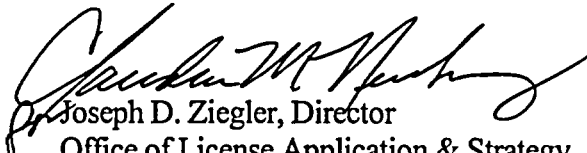
This letter transmits Appendix L of the *Technical Basis Document No. 6: Waste Package and Drip Shield*, Revision 2 (enclosure 1). A compact disk (CD) is provided in Enclosure 2. The CD contains a pdf file, is publicly available, and has 107 KB. The technical basis document contains a summary of the current conceptual understanding of the degradation modes of the waste package and drip shield materials and provides the context within which individual KTI agreements are related to the long-term material behavior. Appendices A – H were submitted as part of the referenced letter. Appendix L, Waste Package and Drip Shield Stress Corrosion Cracking, the subject of this transmittal, provides the technical basis for potential crack arrest and plugging of crack openings due to oxide wedging in waste packages and drip shields in direct response to TSPA 3.03 AIN-1.

The U.S. Department of Energy considers TSPA 3.03 AIN-1 (Appendix L) to be addressed, and pending review and acceptance by the U.S. Nuclear Regulatory Commission, KTI Agreement TSPA 3.03 should be closed.

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There are no new regulatory commitments in the body or the enclosure to this letter. Please direct any questions concerning this letter and its enclosure to either David C. Haught at (702) 794-5474 or e-mail at david_haught@ymp.gov or Paige R.Z. Russell at (702) 794-1315 or e-mail at paige_russell@ymp.gov.



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

OLA&S:DCH-1051

Enclosures:

1. Appendix L, *Technical Basis Document No. 6: Waste Package and Drip Shield, Revision 2*
2. CD of Enclosure 2

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