



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

MAY 28 2004

OVERNIGHT MAIL

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TRANSMITTAL OF APPENDICES I, J AND M, *TECHNICAL BASIS DOCUMENT NO. 6: WASTE PACKAGE AND DRIP SHIELD CORROSION*, REVISION 01, ADDRESSING KEY TECHNICAL ISSUE (KTI) AGREEMENTS RELATED TO CONTAINER LIFE AND SOURCE TERM (CLST) 1.02, CLST 1.06 ADDITIONAL INFORMATION NEEDED (AIN)-1, TOTAL SYSTEM PERFORMANCE ASSESSMENT AND INTEGRATION (TSPA) 3.01, 3.04, 3.05, AND GENERAL (GEN) 1.01 (COMMENT 11)

Reference: Ltr, Ziegler to Chief, High-Level Waste Branch (NRC), dtd 12/9/03
(Transmittal of Report TBDoc No. 6: Waste Package and Drip Shield Corrosion Addressing KTI Agreements Related to CLST and RDTME)

This letter transmits Appendices I, J and M (enclosures 1, 2 and 3) of the *Technical Basis Document No. 6: Waste Package And Drip Shield Corrosion*, Revision 01, that was previously provided in the referenced letter. Also, a compact disk (CD) of the appendices is provided in enclosure 4. The CD files are in pdf format and publicly available. The Appendix I file is 2.29 MB, Appendix J is 1.09 MB, and Appendix M is 1.04 MB. 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. Additional appendices will be transmitted under separate cover letters.

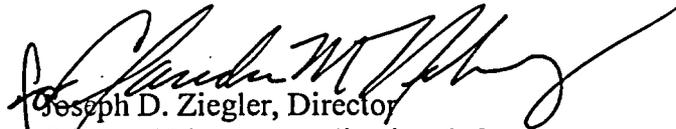
Appendix I, Surface Analysis of Corrosion Test Specimens for Dealloying, provides a direct response to CLST 1.02. Appendix J, Waste Package: Effects of Silica on Corrosion, provides a direct response to CLST 1.06 AIN-1. Appendix M, Corrosion Rates, Uncertainty and Variability Determination, and Propagation of Uncertainty, provides a direct response to TSPA 3.01, 3.04, 3.05, and GEN 1.01 (Comment 11).

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The U.S. Department of Energy considers the KTI agreements CLST 1.02, TSPAI 3.01, TSPAI 3.04, TSPAI 3.05 and GEN 1.01 (Comment 11) to be addressed, and pending review and acceptance by the U.S. Nuclear Regulatory Commission (NRC), they should be closed. In addition, the information contained in Appendix J addresses the AIN in CLST 1.06 AIN-1, and pending review and acceptance by the NRC, CLST 1.06 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 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-1190

Enclosures:

1. Appendix I, Surface Analysis of Corrosion Test Specimens for Dealloying (Response to CLST 1.02)
2. Appendix J, Waste Package: Effects of Silica on Corrosion (Response to CLST 1.06 AIN-1)
3. Appendix M, Corrosion Rates, Uncertainty and Variability Determination, and Propagation of Uncertainty (Response to TSPAI 3.01, TSPAI 3.04, TSPAI 3.05, and GEN 1.01 [Comment 11])
4. CD - Appendices I, J, and M of Technical Basis Document No. 6: Waste Package and Drip Shield Degradation

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cc w/encls 1, 2, 3 and 4:

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