



Department of Energy
Office of Civilian Radioactive Waste Management
Office of Repository Development
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QA: N/A
Project No. WM000-11

JUL 08 2004

OVERNIGHT MAIL

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TRANSMITTAL OF APPENDIX Q, *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) 2.04, 2.05 AND GENERAL INFORMATION (GEN) 1.01 (COMMENT 7)

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

This letter transmits Appendix Q of the *Technical Basis Document No. 6: Waste Package and Drip Shield Corrosion*, Revision 2, which was previously provided in the referenced letter. Also, a compact disk (CD) of the appendix is provided in Enclosure 2. The CD file is in pdf format and can be made publicly available. The Appendix Q file is 2,542 KB, and dated July 2, 2004.

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 of the Technical Basis Document were submitted as part of the referenced letter. Appendices I - V are being transmitted individually under separate cover letters. Appendix Q, *Waste Package: Fabrication, Aging, and Phase Stability Effects*, Revision 2, the subject of this transmittal, provides a direct response to CLST 2.04, 2.05, and GEN 1.01 (Comment 7).

Appendix Q relates to the effect of the fabrication process, aging conditions, and phase stability issues as they affect long-term performance of the waste package outer barrier, Alloy 22 (UNS N06022).

N.MSS07

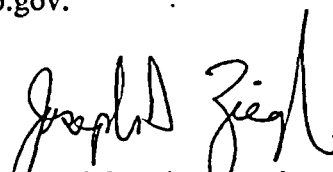
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The U.S. Department of Energy considers the KTI Agreements CLST 2.04, 2.05, and GEN.1.01 (Comment 7) to be addressed in Appendix Q and pending review and acceptance by the U.S. Nuclear Regulatory Commission, they should be closed.

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 either to 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-1581

Enclosures:

1. Appendix Q, *Waste Package: Fabrication, Aging, and Phase Stability Effects, Revision 2 (Response to CLST 2.04 and 2.05, and GEN 1.01 (Comment 7))*
2. CD of Enclosure 1

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