



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

JAN 04 2008

OVERNIGHT MAIL

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RESPONSE TO THE U.S. NUCLEAR REGULATORY COMMISSION (NRC) REQUEST
FOR SAMPLES OF WELDED TITANIUM PLATE

Reference: Ltr, Davis to Gil, dtd 11/15/07 (Request for Samples of Welded Titanium Plate)

In the referenced letter dated November 15, 2007, the NRC requested samples of welded titanium plate representative of the material from which the drip shield would be fabricated. Although initially planned for fiscal year (FY) 2007, procurement and testing by the Yucca Mountain Project of welds between dissimilar titanium alloys have been deferred. As a result, the Project does not have samples that could be provided to the NRC at this time. The current plan is for conducting tests on welds of the drip shield materials in FY 2009 through 2011 on both as-received and welded specimens of Titanium Grades 7 and 29 (Long-Term Corrosion Testing Plan, SAND2007-7027, LSN: DN2002410353). These tests will provide an additional basis for evaluation of the expected performance of the materials and fabrication welds used to manufacture the drip shields.

The analysis for the License Application is based on conservatively developed literature data that is relevant to the expected performance of dissimilar titanium alloy welds representative of those used in drip shield fabrication. The recommended weld filler metal is Titanium Grade 28 (Hydrogen-Induced Cracking of the Drip Shield, ANL-EBS-MD-000006, Revision 02, Addendum 01, Section 6.3[a]). This document is available in the Licensing Support Network (LSN: DN2002458916).

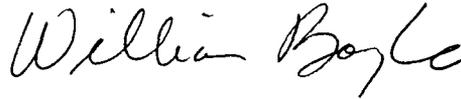
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There are no regulatory commitments in this letter. If there are any questions concerning this letter, please direct them to Corinne Macaluso, the Point-of-Contact for the Regulatory Authority Office, at (202) 586-2837 or e-mail Corinne.Macaluso@rw.doe.gov.



William J. Boyle, Director
Regulatory Authority Office

RAO:RLF-0314

JAN 04 2008

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