



**U.S. Department of Energy**

2597 B<sup>3</sup>/<sub>4</sub> Road  
Grand Junction, CO 81503

June 13, 2006

WM-110

Mr. Myron Fliegel  
U. S. Nuclear Regulatory Commission  
Mail Stop T7J8  
Two White Flint North  
11545 Rockville Pike  
Rockville, MD 20852-2747

Subject: Transmittal of Calculation Sets, Attachments 1 and 4, Remedial Action Plan,  
Moab Uranium Mill Tailings Remedial Action (UMTRA) Project

Dear Mr. Fliegel:

Enclosed are four copies of the following calculation sets for *Attachment 1, Disposal Cell Design and Engineering Specifications* and *Attachment 4, Water Resources Protection Strategy at Crescent Junction*:

**Attachment 1**

- Freeze/Thaw Layer Design
- Radon Barrier Design Remedial Action Plan
- Slope Stability of Crescent Junction Disposal Cell
- Settlement, Cracking, and Liquifaction Analysis
- Site Drainage-Hydrology Parameters
- Crescent Junction Site Hydrology Report
- Diversion Channel Design, North Side Disposal Cell
- Erosional Protection of Disposal Cell Cover

**Attachment 4**

- Material Placement in the Disposal Cell

DOE looks forward to discussing the calculation sets during our upcoming June 20 and 21, 2006, meetings. If you have any questions, please call me at (970) 248-7612 or Joel Berwick of my staff at (970) 248-6020.

Sincerely,

A handwritten signature in black ink, appearing to read "Donald R. Metzler".

Donald R. Metzler  
Moab Federal Project Director

Mr. Myron Fliegel

-2-

June 13, 2006

cc w/enclosure:

Project File MOA 2.12 (R. Burrows)

cc w/o enclosure:

J. Berwick, EM-3.2 (e)

B. Birk, EM-3.2 (e)

J. Elmer, Stoller (e)

K. Karp, Stoller (e)

UDB\Moab\RAP\Calc Sets, Att 1&4, to NRC.doc