



Department of Energy
Office of Legacy Management

DEC 23 2010

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Deputy Director
Mail Stop T8F5
Washington, DC 20555-0001

Subject: Transmittal of 2010 Rock Riprap Durability Monitoring and Gradation Testing Results for the Lakeview, Oregon, Uranium Mill Tailings Radiation Control Act (UMTRCA), Title I, Disposal Site

To Whom It May Concern:

This letter is written as follow-up to a letter previously submitted by the U.S. Department of Energy (DOE) to the U.S. Nuclear Regulatory Commission (NRC) on July 30, 2010, which documented DOE's intent to (1) perform rock durability classification field monitoring again during the 2010 site annual inspection using an enhanced categorizing of the Class A rock, and (2) to collect field samples during the 2010 site annual inspection for laboratory gradation analysis to obtain the mean diameter (D₅₀) value of the riprap rock size diameter by weight.

The results of the 2010 durability monitoring are similar to those determined in 2009 with a greater percentage of the rock classified in 2010 being Durability Class A and a lesser percentage being Class Ca. Specifically in 2010, 47.2 percent of the sampled rocks were Class A, 20.2 percent were Class B, 14.4 percent were Class Ca, 1.0 percent were Class Cb, 8.3 percent were Class Da, 5.9 percent were Class Db, 3.0 percent were Class E, and 0 percent were Class F. Of the Class A rock, 27.7 percent were Class Au (unfractured), 0.8 percent were Class As (split), 4.8 percent were Class Ao (open fractured), and 13.8 percent were Class Ah (hairline fractured).

Rock samples were collected during the 2010 inspection at ten monitoring locations for gradation analysis by a third-party geotechnical laboratory using American Society for Testing and Materials Method D5519, "Standard Test Methods for Particle Size Analysis of Natural and Man-Made Riprap Materials." Each sample was collected from the entire riprap profile. The determined D50 by weight value is 2.24 inches. This value possesses a 95 percent confidence interval limit of 1.96 to 2.52 inches within a range of 1.22 to 2.72 inches.

The data results will be provided in detail in the 2010 Annual Site Inspection and Monitoring Report for UMTRCA Title I Disposal Sites, which will be submitted to NRC in January 2011.

DOE is in the process of evaluating this data to assist in determining a long-term and cost effective solution at the site.

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232 Energy Way, N. Las Vegas, NV 89030	<input type="checkbox"/>	
REPLY TO: Grand Junction Office		

DEC 23 2010

Please contact me at (970) 248-6016 if you have questions.

Sincerely,


Jalena Dayvault
Site Manager

cc:

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