

Impact of Mercury Control Technologies on Fly Ash and FGD Byproducts

Lynn A. Brickett¹ , Carl Hensman², Thomas Feeley, III¹

¹DOE-NETL, 626 Cochran's Mill Road, Pittsburgh, PA 15236; ²Frontier GeoSciences Inc., 414 Pontius Ave. N., Seattle, WA 98109

KEYWORDS: mercury, leaching, coal byproducts

ABSTRACT

The Department of Energy's National Energy Technology Laboratory is currently funding the largest program in mercury control from power plants in the U.S. Many of the mercury control technologies under development result in an increase in the concentration of mercury in the fly ash or flue gas desulfurization byproducts. To determine the fate of mercury in these byproducts DOE requires that all contractors performing mercury testing at power plants collect byproduct samples for analyses. This presentation will highlight some of the results of the leaching, volatilization and microbial mobilization research conducted on these samples.

Submitted for consideration in the World of Coal Ash 2007 Conference, held May 7-10, 2007.