

Developing Beneficial Use Rules for Coal Combustion Products (CCPs)

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ABSTRACT

Development of beneficial use rules for CCPs is a critical step toward increasing the utilization rate of these materials. Many states have developed beneficial use rules; however, several states in the Western United States are working to understand how to accomplish this with limited resources to devote the effort and sometimes limited information to justify the environmental appropriateness of CCPs. A team effort was used by the Wyoming DEQ to develop information for a draft beneficial use rule for bottom ash. The effort included development of descriptions of bottom ash use applications, determination of the composition and constituent mobility for Wyoming bottom ash samples as they are expected to be used, and approaches to evaluate the environmental safety of bottom ash in proposed applications. A variety of laboratory and field tests were performed, and results were evaluated against environmental and public health values. Results show that bottom ash is safe for use in numerous confined applications (road base, fill, asphalt, etc.) and unconfined applications (road surfacing, skid control). A sample bottom ash beneficial use rule is presented with recommendations for appropriately evaluating bottom ash and relating those results to potential for environmental or health impacts.

