

Strategic Planning for Siting CCR Disposal Facilities

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ABSTRACT

The proposed Coal Combustion Residual (CCR) regulations will force many coal burning power plants to convert from wet to dry disposal. There are numerous factors to take into consideration when determining the location, design, capacity and infrastructure to develop a CCR disposal facility in the most cost efficient manner to meet short and long-term requirements.

This presentation will discuss the variables to consider in siting cost efficient CCR dry disposal facilities including:

- ▶ Developing the approach to assess future disposal needs;
- ▶ Evaluation of existing plant properties as well as off-site parcels with respect to environmental, regulatory, civil and geotechnical engineering siting criteria;
- ▶ Availability of natural resources for use in facility construction (soil, stone and water supply);
- ▶ Conceptual engineering design;
- ▶ Infrastructure requirements;
- ▶ Potential liabilities such as the presence of former underground coal mining, karst topography, and public opposition.

The discussion will also address the assessment for centrally located CCR dry disposal facilities to serve multiple facilities as well as utilization of third party municipal solid waste landfills.

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