

Title: Implementation of SCR at Southern Company

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Summary:

The presentation provides a synopsis of Southern Company's active projects implementing SCR NOx control technology in both the regulated and non-regulated business units. The presentation provides a brief overview of regulatory and business drivers that outline the requirements for SCR technology. Using a menu of NOx control technologies, unit-specific conceptual capital, O&M, and technology performance estimates are developed. These estimates are incorporated into a generation model to determine the most cost effective compliance solution.

Actual project experience and design criteria are presented for natural gas, fuel oil, and coal-fired SCR applications. Dominating technical issues such as procurement strategies, technology performance expectations, retrofit difficulties, fuel impacts, and constructability issues are reviewed for several different projects.

A summary of the active SCR projects categorized by fuel type, catalyst type, technology supplier, and unit size are discussed. Additionally, specific research projects related to better quantifying the financial exposure to SCR are introduced.