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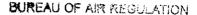
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BUREAU OF AIR REGULATION

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POWER
PARK

October 12, 2006

Ms. Trina L. Vielhauer, Chief Bureau of Air Regulation
Bureau of Air Regulation
Department of Environmental Protection
2600 Blair Stone Road
Tallahassee, FL 32399

Attention: Mr. Jeffery F. Koerner, P.E., Administrator

RE: Northside Generating Station/St. Johns River Power Park (SJRPP)
       Title V Permit 0310045-008-AV; PSD-FL-10
       Request to Install Selective Catalytic Reduction (SCR)

Dear Mr. Koerner: 0310045-017-AC

SJRPP is requesting approval for the installation of SCR for Units 1 and 2 to meet the requirements of the Department's implementation of the Clean Air Interstate Rule (CAIR). The installation of SCR to meet the requirements of CAIR will substantially reduce the emissions of NO_x from these units. As an artifact of installing SCR, the SCR catalyst will potentially oxidize additional SO_2 to SO_3. Some of the SO_3 when traveling though the flue gas desulfurization (FGD) will be removed due to the alkaline nature of the limestone slurry. SO_3 leaving the FGD system will be converted to sulfuric acid mist (SAM) due the saturated conditions of the FGD and temperature. The additional SO_3 formed by the SCR catalyst will be controlled using ammonia injection between the air heater and electrostatic precipitator (ESP) in each unit. The SO_3 and ammonia will form ammonium sulfate that will be collected in the ESP as particulate matter. The amount of PM will also not increase. Therefore, no increase in annual emissions of SAM from SJRPP will occur as a result of the addition of the SCR systems.

SJRPP desires to initiate some construction activities in December 2006. The Department's expeditious review of the application is appreciated. Please call Jay Worley at (904) 665-8729 or our environmental consultant Ken Kosky at (352) 336-5600 if there are any questions.

Sincerely,

Michael J. Brost
JEA
Vice President, Electric Systems

Enclosures

031 0045-017-AC

cc: Hamilton Oven, P.E., Siting Coordination Office
       Jay Worley, JEA/SJRPP
       Ken Kosky, Golder Associates

11201 New Berlin Road   •   Jacksonville, FL 32226