

Air Permit Review

Permit Issue Date:

Region: Mooresville Regional Office
County: Cleveland
NC Facility ID: 2300372
Inspector's Name: Jim Westmoreland
Date of Last Inspection: 10/12/2010
Compliance Code: 3 / Compliance - inspection

Facility Data			Permit Applicability (this application only)
<p>Applicant (Facility's Name): Cleveland County Generating Facility</p> <p>Facility Address: Cleveland County Generating Facility 200 Elm Road Grover, NC 28073</p> <p>SIC: 4911 / Electric Services NAICS: 221119 / Other Electric Power Generation</p> <p>Facility Classification: Before: Title V After: Title V Fee Classification: Before: Title V After: Title V</p>			<p>SIP: 2D .2403, 2D .2404, 2D .2405, 2Q .0400 NSPS: NESHAP: PSD: PSD Avoidance: NC Toxics: 112(r): Other:</p>
Contact Data			Application Data
Facility Contact	Authorized Contact	Technical Contact	<p>Application Number: 2300372.10B Date Received: 03/08/2010 Application Type: Modification Application Schedule: State Existing Permit Data Existing Permit Number: 09881/R01 Existing Permit Issue Date: 04/06/2010 Existing Permit Expiration Date: 08/31/2014</p>
Tony Tatum Compliance Team Leader (704) 278-6607 5755 North Carolina 801 Highway Salisbury, NC 28147	Ronnie Walston Combined Cycle Site Manager (704) 278-6601 5755 North Carolina 801 Highway Salisbury, NC 28147	Brian Toth Principal Environmental Engineer (205) 257-7440 600 N. 18th Street / 14N- 8195 Birmingham, AL 35291	
<p>Review Engineer: Ed Martin</p> <p>Review Engineer's Signature: _____ Date: _____</p>		<p style="text-align: center;">Comments / Recommendations:</p> <p>Issue 09881/R02 Permit Issue Date: Permit Expiration Date:</p>	

I. Purpose of Application

This permit revision is to add the Clean Air Interstate Rules (CAIR) and Acid Rain requirements to the permit for applicable sources: combustion turbines ES1 – ES6. The CAIR and Acid Rain applications, 2300372.10C and 23000372.10B respectively (with 2300372.10C consolidated into 2300372.10B), were received March 8, 2010, as required to be submitted in accordance with the schedule in 40 CFR Part 96 for each CAIR NOx source, each CAIR SO₂ source and each CAIR NOx Ozone Season source; and in accordance with the schedule in specific condition A.12 of the permit (which is now removed) requiring submittal at least 24-monthes before operation for each Acid Rain source. The CAIR requirements replace the 2D .1400 NOx rules previously in the permit.

II. Permit Changes

The following changes were made to the Cleveland County Generating Facility Air Permit No. 09881R01:

Page	Condition	Description of Changes
1	--	Amended permit numbers and dates. Added ORIS code.
2	A.1	Replaced 2D .1418 with 2D .2403, 2D .2404 and 2D .2405. Replaced 2Q .0402 with 2Q .0400.
13-15	A.11	Replaced 2D .1418 nitrogen oxide control requirements with 2D .2403, .2404 and .2405 Clean Air Interstate Rule (CAIR) permit requirements.
15	A.12	Replaced old condition to submit acid rain application with new condition specifying acid rain requirements.

III. Facility Description

Cleveland County Generating Facility is under construction and will consist of six natural gas/ No. 2 fuel oil-fired simple-cycle internal combustion turbines (nominally rated at 190 MW each), one fire water pump engine, two fuel gas heaters, and two fuel oil storage tanks.

IV. Summary of Changes to Emission Sources and Control Devices

There are no changes to emission sources or control devices.

V. Emission and Regulatory Evaluation

15A NCAC 2D .2400 "Clean Air Interstate Rules"

This rule replaces the 2D .1418 NOx SIP Call rule previously in the permit. The applicable CAIR rules, as specified in the CAIR Permit Application, dated February 24, 2010, attached to the permit, include the emission and monitoring requirements shown below for combustion turbines ES1 – ES6.

This rule implements the federal Clean Air Interstate Rule under 40 CFR Part 96. The following 2D .2400 sections apply:

15A NCAC 2D .2403 "Nitrogen Oxide Emissions"

This section specifies the total annual NOx allocations and includes the compliance, emissions measurements recording and reporting, excess emissions and liability requirements.

15A NCAC 2D .2404 "Sulfur Dioxide Emissions"

This section specifies the annual SO₂ allocations and includes the compliance, emissions measurements recording and reporting, excess emissions and liability requirements.

15A NCAC 2D .2405 "Nitrogen Oxide Emissions During Ozone Season"

This section specifies the NOx allocations during the ozone season and includes the compliance, emissions measurements recording and reporting, excess emissions and liability requirements.

The owners and operators of each affected source must hold, in the source's compliance account, allowances in an amount not less than the total tons of NOx, SO₂ and NOx Ozone Season emissions for each control period.

15A NCAC 2Q .0400 "Acid Rain Procedures"

Acid Rain requirements are being added for combustion turbines ES1 – ES6. The applicable acid rain rules, as specified in the Acid Rain Permit Application, dated February 24, 2010, attached to the permit, include the following emission and monitoring requirements:

15A NCAC 2Q .0400 "Acid Rain Procedures" (40 CFR Part 72 "Permits Regulation")

North Carolina air quality regulation 15A NCAC 2Q .0400 implements Phase II of the federal acid rain program pursuant to Title IV of the CAA as provided in 40 CFR Part 72. Issuance or denial of acid rain permits shall follow the procedures under 40 CFR Part 70 (Title V) and Part 72. If the provisions

or requirements of Part 72 conflict with or are not included in Part 70, the Part 72 provisions and requirements shall apply and take precedence. SO₂ allowances are not allocated by U.S. EPA for new units under 40 CFR Part 72; however, the sources must hold enough SO₂ allowances to cover their annual SO₂ emissions. There are no NO_x emission limits for gas or oil-fired units; however, NO_x emissions monitoring is required.

15A NCAC 2Q .0400 “Acid Rain Procedures” (40 CFR Part 75 “Continuous Emissions Monitoring”)
This regulation establishes requirements for the installation, certification, operation, and maintenance of continuous emissions or opacity monitoring systems.

VI. Public Notice

Pursuant to 15A NCAC 2Q .0521, a notice of the draft Title V Operating Permit will be published on the DAQ website, to provide for a 30-day comment period with an opportunity for a public hearing. Copies of the draft (proposed) permit, review and public notice will be sent to EPA for their 45-day review, to persons on the Title V mailing list, to the Mooresville Regional Office, and to the Permittee for review.

VII. Recommendations

after public notice