

**Air Permit Review**

**Permit Issue Date:**

**Region:** Mooresville Regional Office  
**County:** Rowan  
**NC Facility ID:** 8000163  
**Inspector's Name:** Bruce Ingle  
**Date of Last Inspection:** 07/12/2005  
**Compliance Code:** C/In Compliance With  
 Procedural Reqr

<b>Facility Data</b>	<b>Permit Applicability (this application only)</b>
<p><b>Applicant (Facility's Name):</b> Rowan County Power LLC</p> <p><b>Facility Address:</b>                  Rowan County Power LLC                  5755 NC 801 Highway                  Salisbury, NC 28147</p> <p><b>SIC:</b> 4911 / Electric Services  <b>NAICS:</b> 221112 / Fossil Fuel Electric Power Generation</p> <p><b>Facility Classification: Before:</b> Title V <b>After:</b> Title V  <b>Fee Classification: Before:</b> Title V <b>After:</b> Title V</p>	<p><b>SIP:</b> 2Q .0400 (Acid Rain)  <b>NSPS:</b>  <b>NESHAP:</b>  <b>PSD:</b>  <b>PSD Avoidance:</b>  <b>NC Toxics:</b>  <b>112(r):</b>  <b>Other:</b></p>

<b>Contact Data</b>			<b>Application Data</b>
<b>Facility Contact</b>	<b>Authorized Contact</b>	<b>Technical Contact</b>	
Larry Small Plant Manager (704) 278-6601 5755 NC 801 Highway Salisbury NC, 28147	James Klemes Vice President (919) 546-5132 410 South Wilmington Street Raleigh NC, 27601	Calvin Ogburn Project Environmental Analyst (919) 362-3585 P O Box 327 New Hill NC, 27562	<p><b>Application Number:</b> 8000163.05B  <b>Date Received:</b> 06/16/2005  <b>Application Type:</b> Renewal  <b>Application Schedule:</b> Title IV  <b>Existing Permit Data</b>  <b>Existing Permit Number:</b> 08758/T06  <b>Existing Permit Issue Date:</b> 01/30/2003  <b>Existing Permit Expiration Date:</b> 12/31/2007</p>

<p><b>Review Engineer:</b> Ed Martin</p> <p><b>Review Engineer's Signature:</b> _____ <b>Date:</b> _____</p> <p style="text-align: center;"><b>DRAFT FOR PUBLIC NOTICE</b></p>	<p style="text-align: center;"><b>Comments / Recommendations:</b></p> <p><b>Issue</b> 08758/T07  <b>Permit Issue Date:</b>  <b>Permit Expiration Date:</b></p>
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**I. Purpose of Application**

Rowan County Power has applied for renewal of the Phase II Acid Rain portion of their Title V permit as required by 15A NCAC 2Q .0400 and 40 CFR Part 72. The application was received June 16, 2005. The application will be made part of the final permit (as an attachment). The current Title V permit No. 08758T06 was issued January 30, 2003, and will expire on July 31, 2007. The Acid Rain requirements in the current permit cover the five calendar year period from January 1, 2001 through December 31, 2005. The Acid Rain requirements are being renewed for another five years with effective dates from January 1, 2006 through December 31, 2010. The expiration date for the Title V permit itself will not change.

This permit is being processed as a significant modification under 15A NCAC 2Q .0501(d)(1).

**II. Permit Changes:**

The following changes were made to the Rowan County Power, LLC Air Permit No. 08758T07:

Page(s)	Part, Section	Change
Cover	-	Amended permit numbers and dates.
TOC	-	Revised for new Acid Rain application attachment.
24-25	Part I, Section 2.3	Revised Acid Rain effective dates.
25	Part I, Section 2.3.4	Revised for new Acid Rain application attachment.
25-33	Part I, Section 3	Added new set of General Conditions.

Rowan County Power was notified that the General Conditions were changed, in an e-mail to Scott Lane from Ed Martin dated October 31, 2005, providing at least 60 days advance notice for the reopen for cause provision in accordance with 2Q .0517.

The permit was converted to MS Word.

**III. Applicable Regulations**

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 or are not included in Part 70, the Part 72 provisions and requirements shall apply and take precedence.

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.

**IV. Facility Description**

The Acid Rain requirements apply to affected units as specified in 2Q .0401(c)(1). The following sources are affected units under 40 CFR Part 72.6 and 15A NCAC 2Q .0401(c)(1) and are therefore subject to the Phase II acid rain requirements:

Emission Source I.D. No.	Emission Source Description
Unit 1 Unit 2 Unit 3	three natural gas/No. 2 fuel oil-fired simple-cycle internal combustion turbines (1,628 million Btu per hour heat input rate each, when firing natural gas, 1,875 million Btu per hour heat input rate each, when firing No. 2 fuel oil), each equipped with dual fuel dry Low-NOx combustors and having water injection capability for NO <sub>x</sub> control
Unit 4	one natural gas/No. 2 fuel oil-fired simple-cycle/combined-cycle internal combustion turbine (1,628 million Btu per hour heat input rate, when firing natural gas, 1,875 million Btu per hour heat input rate, when firing No. 2 fuel oil), equipped with a heat recovery steam generator and a steam turbine, and dual fuel dry Low-NOx combustors and having water injection capability for NO <sub>x</sub> control
Unit 5	one natural gas-fired simple-cycle/combined-cycle internal combustion turbine (1,628 million Btu per hour heat input), equipped with a heat recovery steam generator and a steam turbine, and dual fuel dry Low-NOx combustors

**V. Statement of Compliance**

Based on observations made during the most recent inspection on March 29, 2005, by Bruce Ingle, this facility appeared to be in compliance with the applicable air quality regulations.

**VI. Emission Requirements**

The following table identifies the SO<sub>2</sub> allowance allocations and NO<sub>x</sub> requirements for each affected unit for which the amended Phase II Acid Rain Permit is being issued.

		2006	2007	2008	2009	2010
<b>Unit 1</b>	SO <sub>2</sub> allowances, under Tables 2, 3, or 4 of 40 CFR part 73.	NA*	NA*	NA*	NA*	NA*
<b>Unit 2</b>						
<b>Unit 3</b>						
<b>Unit 4</b>						
<b>Unit 5</b>						
(IC Turbines)	NO <sub>x</sub> limit	NA**				

\* SO<sub>2</sub> allowances are not allocated by U.S. EPA for new units under 40 CFR part 72.  
 \*\* Does not apply for gas or oil-fired units.

**VII. Public Notice of the Draft Permit**

Pursuant to 15A NCAC 2Q .0521, a notice of the draft Title V Operating Permit will be published in a newspaper of general circulation in the area where the facility is located to provide for a 30 day comment period, with an opportunity for a public hearing. Copies of the public notice will be sent to persons on the Title V mailing list, and EPA. In addition, at the time the notice is provided to the public, notice of the draft permit and opportunity for participation was also given to the affected states, as specified by 15A NCAC 2Q .0503(1) and 40 CFR 70.8(b).

**VIII. EPA Review**

The proposed permit will be sent to EPA for their 45-day review.

**IX. Other Requirements**

PE Seal

A professional engineer’s seal was not required since there are no new control devices or changes to any existing control devices.

Zoning

A consistency determination was not required since the facility is not being expanded.

Fee Classification

The facility fee classification before and after this modification will remain as “Title V”.

**X. Recommendations**

later