

**NORTH CAROLINA DIVISION OF
AIR QUALITY**

Air Permit Review

Permit Issue Date:

Region: Fayetteville Regional Office
County: Richmond
NC Facility ID: 7700070
Inspector's Name: Sally McKinney
Date of Last Inspection: 02/18/2005
Compliance Code: 3/In Compliance - Inspection

Facility Data			Permit Applicability (this application only)
<p>Applicant (Facility's Name): Progress Energy Carolinas Inc. - Richmond Cty Comb Turbine</p> <p>Facility Address: Progress Energy Carolinas Inc. - Richmond Cty Comb Turbine 198 Energy Way Hamlet, NC 28345</p> <p>SIC: 4911 / Electric Services NAICS: 221112 / Fossil Fuel Electric Power Generation</p> <p>Facility Classification: Before: Title V After: Title V Fee Classification: Before: Title V After: Title V</p>			<p>SIP: NSPS: NESHAP: PSD: PSD Avoidance: NC Toxics: 112(r): Other:</p>
Contact Data			Application Data
Facility Contact	Authorized Contact	Technical Contact	<p>Application Number: 7700070.05A Date Received: 05/04/2005 Application Type: Modification Application Schedule: TV-Reopen for Cause Existing Permit Data Existing Permit Number: 08759/T06 Existing Permit Issue Date: 09/12/2003 Existing Permit Expiration Date: 08/03/2008</p>
Kim Kashmer Senior Environmental Specialist (910) 205-2111 P O Box 1009 Hamlet NC, 28353	Pete Sessler Plant Manager 198 Energy Way Hamlet NC, 28345	Calvin Ogburn Project Environmental Analyst (919) 362-3585 P O Box 327 New Hill NC, 27562	
<p>Review Engineer: Ed Martin</p> <p>Review Engineer's Signature: _____ Date: _____</p> <p style="text-align: center;">DRAFT FOR PUBLIC NOTICE</p>		<p style="text-align: center;">Comments / Recommendations:</p> <p>Issue 08759/T07 Permit Issue Date: Permit Expiration Date:</p>	

I. Purpose of Application

Progress Energy (CP&L) has applied for renewal of the Phase II Acid Rain portion of their Richmond County Combustion Turbine Facility Title V permit as required by 15A NCAC 2Q .0400 and 40 CFR Part 72. The application was received May 4, 2005. The application will be made part of the final permit (as an attachment). The current Title V permit No. 08759T06 was issued September 12, 2003, and will expire on August 31, 2008. 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 Richmond County Combustion Turbine Facility Air Permit No. 08759T07:

Page(s)	Part, Section	Change
Cover	-	Amended permit numbers and dates.
TOC	-	Revised for new Acid Rain application attachments.
27-28	Part I, Section 2.3	Revised Acid Rain effective dates.
28	Part I, Section 2.3 D	Revised for new Acid Rain application attachment.
29-36	Part I, Section 3	Added new set of General Conditions.

Progress Energy was notified that the General Conditions were changed, in an e-mail to Scott Lane from Ed Martin dated October 17, 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	five natural gas/No. 2 fuel oil-fired simple-cycle internal combustion turbines (1,628 million Btu per hour nominally rated heat input each, when firing natural gas, 1,819 million Btu per hour nominally rated heat input each, when firing No. 2 fuel oil), each equipped with dual fuel dry Low-NOx combustors when firing natural gas and water injection when firing No. 2 fuel oil for NO _x control
Unit 2	
Unit 3	
Unit 4	
Unit 6	

Unit 7 two natural gas/No. 2 fuel oil-fired combined-cycle internal combustion
 Unit 8 turbines (1,628 million Btu per hour nominally rated heat input each, when firing natural gas, 1,819 million Btu per hour nominally rated heat input each, when firing No. 2 fuel oil), each equipped with a heat recovery steam generator and a steam turbine, and dual fuel dry Low-NO_x combustors when firing natural gas and water injection when firing No. 2 fuel oil for NO_x control

V. Statement of Compliance

Based on observations made during the most recent inspection on February 18, 2005, by Sally McKinney, Progress Energy-Richmond County Combustion Turbine Facility appeared to be in compliance with all requirements outlined in their air permit.

VI. Emission Requirements

The following tables identify the SO₂ allowance allocations and NO_x requirements for each affected unit for which the amended Phase II Acid Rain Permit is being issued.

		2006	2007	2008	2009	2010
Unit 1 (IC Turbine) Unit 2 (IC Turbine) Unit 3 (IC Turbine) Unit 4 (IC Turbine) Unit 6 (IC Turbine) Unit 7 (IC Turbine) Unit 8 (IC Turbine)	SO ₂ allowances, under Tables 2, 3, or 4 of 40 CFR part 73.	NA*	NA*	NA*	NA*	NA*
	NO _x limit	NA**				

* SO₂ 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