

Air Permit Review

Permit Issue Date:

Region: Mooresville Regional Office
County: Gaston
NC Facility ID: 3600039
Inspector's Name: Joseph Foutz
Date of Last Inspection: 07/22/2010
Compliance Code: 3 / Compliance - inspection

Facility Data			Permit Applicability (this application only)
<p>Applicant (Facility's Name): Duke Power Company, LLC - Allen Steam Station</p> <p>Facility Address: Duke Power Company, LLC - Allen Steam Station 253 Plant Allen Rd. Belmont, NC 28012</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:</p> <p>NSPS:</p> <p>NESHAP: 15A NCAC 2D .1109 (Case-By-Case MACT)</p> <p>PSD:</p> <p>PSD Avoidance:</p> <p>NC Toxics:</p> <p>112(r):</p> <p>Other:</p>
Contact Data			Application Data
Facility Contact	Authorized Contact	Technical Contact	<p>Application Number: 3600039.09C Date Received: 09/04/2009 Application Type: 112(j) Part II Application Schedule: TV-Significant</p> <p style="text-align: center;">Existing Permit Data</p> <p>Existing Permit Number: 03757/T34 Existing Permit Issue Date: 01/22/2010 Existing Permit Expiration Date: 12/31/2014</p>
Donald Scruggs Environmental Coordinator (704) 829-2350 253 Plant Allen Road Belmont, NC 28012	Brian Weisker Station Manager (704) 829-2350 253 Plant Allen Road Belmont, NC 28012	William Horton Senior Environmental Specialist (980) 373-3226 526 South Church Street Charlotte, NC 28202	
<p>Review Engineer: Fern Paterson, P.E.</p> <p>Review Engineer's Signature: _____ Date: _____</p>		<p style="text-align: center;">Comments / Recommendations:</p> <p>Issue: 03757T35 Permit Issue Date: _____ Permit Expiration Date: 12/31/2014</p>	

I. Purpose of Application

Duke Energy Carolinas, LLC - Allen Steam Station is located in Belmont, Gaston County, North Carolina. Application No. 3600039.09C, received September 4, 2009, is a Part 2 MACT "Hammer" application for one No. 2 fuel oil-fired auxiliary boiler (**ID No. ES-9(Aux)**) rated at 14.6 million British thermal units per hour (MMBtu/hr).

II. Permit Modifications/Changes

The following table describes the modifications to the current permit.

Page(s)	Section	Description of Change(s)
1	Permit Cover Page	Amend permit revision numbers and issuance/effective dates.
5	Section 1, Table	Add "Case-By-Case MACT" designation to the affected boiler (ID No. ES-6(AuxB)).
20	Section 2.1.B., Table	Add 15A NCAC 2D .1109 to the table summarizing applicable regulations.
22-23	2.1.B.5. (New)	Add Section to include the Case-by-Case MACT requirements for the affected boiler (ID No. ES-6(AuxB)).
43-51	Section 3	Update General Provisions with the most recent revision (v. 3.3)

III. Regulatory Review – 15A NCAC 2D .1109: Case-By-Case MACT

On July 20, 2007, the D.C. Circuit Court vacated the National Emission Standard for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters, which had been promulgated under 40 CFR 63, Subpart DDDDD. The North Carolina Attorney General's office has determined that the NESHAP vacatur equates to the failure of the U.S. EPA to promulgate a standard as required under Section 112(d) of the Clean Air Act (CAA). As a result, the site-specific Maximum Achievable Control Technology (MACT) standards required under CAA § 112(j), commonly referred to as the MACT "hammer" provisions, have been triggered. North Carolina regulations implementing the MACT hammer are found at 15A NCAC 2D .1109.

On September 4, 2009, the NC DAQ received a Part 2 MACT "Hammer" application from this facility for one affected No. 2 fuel oil-fired auxiliary boiler (**ID No. ES-6(AuxB)**). Utility boilers are not within Industrial, Commercial, and Institutional Boilers and Process Heaters industrial source category and the Permittee is not required to submit a "Hammer" application for the utility boilers.

No control technologies for the control of CO, metals, Hg, or HCl were identified for No. 2 fuel oil-fired boilers in the state of North Carolina. The NC DAQ has determined that MACT is the use of best work practice standards for No. 2 fuel oil fired combustion sources, consistent with the provisions in CAA § 112(d)(2)(D). Best work practice standards in this case shall include the annual inspection and maintenance of the boiler as follows:

To assure compliance, the Permittee shall perform an annual boiler inspection and maintenance as recommended by the manufacturer, or as a minimum, the inspection and maintenance requirement shall include the following:

- i. Inspect the burner, and clean or replace any components of the burner as necessary;*
- ii. Inspect the flame pattern and make any adjustments to the burner necessary to optimize the flame pattern; and,*
- iii. Inspect the system controlling the air-to-fuel ratio, and ensure that it is correctly calibrated and functioning properly.*

Each annual inspection shall be conducted within 12 months of the prior inspection. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .1109 if the affected boilers are not inspected and maintained as required above.

In addition, the Permittee will be required to record the results of the annual inspection in a logbook (written or electronic format), which shall be retained on-site and made available to an authorized representative upon request.

IV. Draft Permit Review Summary

Joe Foutz of the Mooresville Regional Office was provided a draft permit and draft permit review document on December 16, 2010.

Kris Knudsen of Duke Energy was provided a draft permit for review on December 16, 2010.

Ms. Katy Forney and Ms. Gracy DeNois (U.S. EPA, Region IV) were provided a draft permit for review on <DATE>. <SUMMARY OF COMMENTS>.

V. Recommendations

This permit modification application for Duke Energy Carolinas, LLC - Allen Steam Station located in Belmont, Gaston County, North Carolina has been reviewed by NC DAQ to determine compliance with all procedures and requirements. NC DAQ has determined that this facility appears to be complying with all applicable requirements.

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