

**NORTH CAROLINA DIVISION OF
AIR QUALITY**

Air Permit Review

Region: Washington Regional Office
County: Beaufort
NC Facility ID: 0700071
Inspector's Name: Robert Bright
Date of Last Inspection: 09/28/2009
Compliance Code: 3 / Compliance - inspection

Permit Issue Date:

Facility Data			Permit Applicability (this application only)	
Applicant (Facility's Name): PCS Phosphate Company Inc. - Aurora Facility Address: PCS Phosphate Company Inc. - Aurora 1530 NC 306 South Aurora, NC 27806 SIC: 2874 / Phosphatic Fertilizers NAICS: 325312 / Phosphatic Fertilizer Manufacturing Facility Classification: Before: Title V After: Title V Fee Classification: Before: Title V After: Title V			SIP: N/A NSPS: N/A NESHAP: N/A PSD: N/A PSD Avoidance: N/A NC Toxics: N/A 112(r): N/A Other: 15A NCAC 2D .1109 <i>[112(j) – Part 2 MACT Hammer for Boilers & Process Heaters]</i>	
Contact Data			Application Data	
Facility Contact	Authorized Contact	Technical Contact	Application Number: 0700071.09D Date Received: 09/10/2009 Application Type: 112(j) Part II Application Schedule: TV-Significant Existing Permit Data Existing Permit Number: 04176/T42 Existing Permit Issue Date: 03/23/2009 Existing Permit Expiration Date: 05/31/2010	
Pete Wind Environmental Engineer (252) 322-8125 P O Box 48 Aurora, NC 27806	Steve Beckel General Manager/Phosphate Div. P. O. Box 48 Aurora, NC 27806	Pete Wind Environmental Engineer (252) 322-8125 P O Box 48 Aurora, NC 27806		
Review Engineer: Fern Paterson, P.E. Review Engineer's Signature: _____ Date: _____			Comments / Recommendations: Issue 04176/T43 Permit Issue Date: _____ Permit Expiration Date: 05/31/2010	

I. Purpose of Application

PCS Phosphate Company Inc. has a facility located in Aurora, Beaufort County, North Carolina. Application No. 2100080.09D, received September 10, 2009, is a Part 2 MACT "Hammer" application for one No. 2 fuel oil-fired boiler (**ID Nos. BW-2**) with a heat input capacity of 99.56 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.
3	Section 1	Add 112(j) designation to the affected boiler (ID No. BW-2).
24	Section 2.1.1.B., Table	Add CAA § 112(j) (2D .1109) to the list of applicable regulations.
27	Section 2.1.1.B.6.	Add Section to include 112(j) MACT Hammer requirements applicable to the affected boiler.
104-112	Section 3	Update General Provisions with the most recent revision (v. 3.1)

III. Regulatory Review

1. **15A NCAC 2D .1109 – CAA § 112(j); Case-by-Case MACT for Boilers & Process Heaters** – 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 August 21, 2009, the NC DAQ received a Part 2 MACT “Hammer” application from this facility asking that the NC DAQ establish 112(j) emissions limitations in accordance with NC DAQ’s recommendations.

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, nor were any such technologies identified in a North Carolina query using U.S. EPA’s AirControlNet software (v4.1). The NC DAQ has determined that MACT is the use of best work practice standards for No. 2 fuel oil-fired combustion sources of this size, 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.*

The Permittee shall conduct at least one tune-up per calendar year to demonstrate compliance with this requirement. 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

Robert Bright of the Washington Regional Office was provided a draft permit and draft permit review document on <DATE>. <SUMMARY OF COMMENTS>.

Pete Wind of PCS was provided a draft permit for review on <DATE>. <SUMMARY OF COMMENTS>.

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 the PCS Phosphate Company Inc. facility located in Aurora, Beaufort 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.

Issue Permit No. 04176T43