

AIR EMISSION SUMMARY

The air contaminant sources listed below comprise the Permit to Install for **BIO MASS ENERGY LLC** located in **LAWRENCE** County. The sources listed below shall not exceed the emission limits/control requirements contained in the table. This condition in no way limits the applicability of any other state or federal regulations. Additionally, this condition does not limit the applicability of additional special terms and conditions of this permit.

Ohio EPA Source Number	Source Identification Description	BAT Determination	Permit Allowable Mass Emissions	
			Applicable Federal & OAC Rules	and/or Control/Usage Requirements
B001	175 MM BTU/hr Wood & Coal Fired Boiler	Baghouse; Selective Catalytic NOx Reduction; SO2 Sodium Bicarbonate Injection	3745-31-05	0.015 LB PM/PM ₁₀ per MMBTU of actual heat input 11.5 TPY PM/PM ₁₀ ; 0.036 LB NO _x per MMBTU of actual heat input 27.48 TPY NO _x ; 0.19 LB SO ₂ per MMBTU of actual heat input 144.38 TPY SO ₂ ; 0.004 LB CO per MMBTU of actual heat input 3.17 TPY CO
			3745-17-07	Visible particulate emissions from the baghouse stack shall not exceed 20 percent average.
			3745-17-10	(see NOTE 1 below)
			3745-18-50	(see NOTE 1 below)

opacity as a six minute

<u>Ohio EPA Source Number</u>	<u>Source Identification Description</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>and/or Control/Usage Requirements</u>	<u>Permit Allowable Mass Emissions</u>
B002	175 MM BTU/hr Coke Oven Gas Fired Boiler	Selective Catalytic NOx Reduction; SO2 Sodium Bicarbonate Injection	3745-31-05	0.01 LB PM/PM ₁₀ per MMBTU of actual heat input 7.7 TPY PM/PM ₁₀ ; 0.15 LB NO _x per MMBTU of actual heat input 112.13 TPY NO _x ; 0.05 LB SO ₂ per MMBTU of actual heat input	0.01 LB PM/PM ₁₀ per MMBTU of actual heat input 7.7 TPY PM/PM ₁₀ ; 0.15 LB NO _x per MMBTU of actual heat input 112.13 TPY NO _x ; 0.05 LB SO ₂ per MMBTU of actual heat input 38.33 TPY SO ₂
			3745-17-07	opacity as a six minute	Visible particulate emissions from the baghouse stack shall not exceed 20 percent average.
			3745-17-10 40 CFR Part 60 Subpart Db		(See NOTE 1 below) (See NOTE 2 below)
B003	175 MMBTU/hr Wood & Coal	Baghouse; Selective	3745-31-05	0.015 LB PM/PM ₁₀ per MMBTU of actual	0.015 LB PM/PM ₁₀ per MMBTU of actual

Fired Boiler	Catalytic NOx Reduction; SO2 Sodium Bicarbonate Injection	heat input 11.5 TPY PM/PM ₁₀ ; 0.036 LB NO _x per MMBTU of actual heat input 27.48 TPY NO _x ; 0.19 LB SO ₂ per MMBTU of actual heat input 144.38 TPY SO ₂ ; 0.004 LB CO per MMBTU of actual heat input 3.17 TPY CO
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<u>Ohio EPA Source Number</u>	<u>Source Identification Description</u>	<u>BAT Determination</u>	<u>Applicable</u>	<u>and/or</u>	<u>Permit Allowable</u>	<u>Mass Emissions</u>
				<u>Federal & OAC Rules</u>	<u>Control/Usage</u>	<u>Requirements</u>
				3745-17-07		Visible particulate emissions from the baghouse stack shall not exceed 20 percent average.
				3745-17-10		(See NOTE 1 below)
				3745-18-50		(see NOTE 1 below)
B004	175 MMBTU/hr Wood & Coal Fired Boiler	Baghouse; Selective Catalytic NOx Reduction; SO2 Sodium		3745-31-05		0.015 LB PM/PM ₁₀ per MMBTU of actual heat input 11.5 TPY PM/PM ₁₀ ; 0.036 LB NO _x per

Bicarbonate Injection

MMBTU of actual heat input
 27.48 TPY NO_x;
 0.19 LB SO₂ per MMBTU of actual heat input
 144.38 TPY SO₂;
 0.004 LB CO per MMBTU of actual heat input
 3.17 TPY CO

3745-17-07

Visible particulate emissions from the baghouse stack shall not exceed 20 percent average.

opacity as a six minute

3745-17-10

(See NOTE 1 below)

3745-18-50

(see NOTE 1 below)

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Ohio EPA Source Number	Source Identification Description	BAT Determination	Applicable Federal & OAC Rules	Permit Allowable
				and/or Control/Usage Requirements
B005	175 MMBTU/hr Coke Oven Gas Fired Boiler	Selective Catalytic NO _x Reduction; SO ₂ Sodium Bicarbonate	3745-31-05	0.01 LB PM/PM ₁₀ per MMBTU of actual heat input 7.7 TPY PM/PM ₁₀ ; 0.15 LB NO _x per

		Injection		MMBTU of actual heat input 112.13 TPY NO _x ; 0.05 LB SO ₂ per MMBTU of actual heat input 38.33 TPY SO ₂
			3745-17-07	Visible particulate emissions from the baghouse stack shall not exceed 20 percent average.
				opacity as a six minute
			3745-17-10 40 CFR Part 60 Subpart Db	(See NOTE 1 below) (See NOTE 2 below)
B006	175 MMBTU/hr Wood & Coal Fired Boiler	Baghouse; Selective Catalytic Nox Reduction; SO ₂ Sodium Bicarbonate Injection	3745-31-05	0.015 LB PM/PM ₁₀ per MMBTU of actual heat input 11.5 TPY PM/PM ₁₀ ; 0.036 LB NO _x per MMBTU of actual heat input 27.48 TPY NO _x ; 0.19 LB SO ₂ per MMBTU of actual heat input 144.38 TPY SO ₂ ; 0.004 LB CO per MMBTU of actual heat input 3.17 TPY CO

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Ohio			Permit Allowable
EPA	Source	Applicable	and/or
			Mass Emissions

<u>Source Number</u>	<u>Identification Description</u>	<u>BAT Determination</u>	<u>Federal & OAC Rules</u>	<u>Control/Usage Requirements</u>
			3745-17-07	Visible particulate emissions from the baghouse stack shall not exceed 20 percent average.
			3745-17-10	(See NOTE 1 below)
			3745-18-50	(see NOTE 1 below)
B007	175 MMBTU/hr Wood & Coal Fired Boiler	Baghouse; Selective Catalytic NOx Reduction; SO2 Sodium Bicarbonate Injection	3745-31-05	0.015 LB PM/PM ₁₀ per MMBTU of actual heat input 11.5 TPY PM/PM ₁₀ ; 0.036 LB NO _x per MMBTU of actual heat input 32.96 TPY NO _x ; 0.19 LB SO ₂ per MMBTU of actual heat input 144.38 TPY SO ₂ ; 0.004 LB CO per MMBTU of actual heat input 3.17 TPY CO
			3745-17-07	Visible particulate emissions from the baghouse stack shall not exceed 20 percent average.
			3745-17-10	(See NOTE 1 below)
			3745-18-50	(see NOTE 1 below)

NOTE 1 - The requirements of this rule are less stringent than the

requirements of OAC rule 3745-31-05.

NOTE 2 - No PM, SO₂, or NO_x emissions limits are required for Coke Oven Gas Fired Boilers in 40 CFR Part 60, Subpart Db.

SUMMARY
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons/Year</u>	<u>Tons/Year</u>	Net Increase
PM/PM ₁₀		72.9	11.92
NO _x		361.66	-1257.7
SO ₂	798.56	-4806.13	
CO	15.85	15.85	

ADDITIONAL TERMS AND CONDITIONS

1. Operational Restrictions

The following requirements apply to emissions units B001, B003, B004, B006, B007.

- a. The maximum annual production rate for these emissions units shall not exceed 12665 tons per year maximum coal usage per boiler, based upon a rolling, 12 month summation of the production rates.

To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the production levels specified in the following table:

<u>Month</u> <u>Cumulative Production</u>	<u>Maximum Allowable</u>
1	1055
1-2	2111
1-3	3166
1-4	4222
1-5	5277
1-6	6333
1-7	7388
1-8	8443
1-9	9499
1-10	10554
1-11	11610
1-12	12665

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual production rate limitation shall be based upon a rolling, 12 month summation of the production rates.

- b. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation.

The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.

The pressure drop across the baghouse shall be maintained within a range of inches of water while the emissions unit is in operation. The number of inches of water shall be determined during the initial stack test for these emission units.

The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above. These excursion reports shall be submitted on a quarterly basis and shall be submitted by January 31, April 30, July 31, and October 31 of each year and shall address the data obtained during the previous calendar quarter. Even if no excursions have occurred during a calendar quarter, a quarterly report shall still be submitted stating that no excursions have occurred.

2. Certification

The following requirements apply to emissions units B001, B003, B004, B006, B007.

- a. Prior to the installation of the continuous SO_2, NO_x monitoring system, the permittee shall submit information detailing the proposed location of the sampling site(s) in accordance with the siting requirements in 40 CFR Part 60, Appendix B, Performance Specification 6.

Within 60 days of the effective date of this permit, the permittee shall conduct certification tests of the continuous SO_2, NO_x monitoring system pursuant to ORC Section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 6. Personnel from the appropriate Ohio EPA District Office or local air agency shall be notified 30 days prior to initiation of the applicable tests and shall be permitted to examine equipment and witness the certification tests. In accordance with OAC rule 3745-15-04, all copies of the test results shall be submitted to the appropriate Ohio

EPA District Office or local air agency within 30 days after the test is completed. Copies of the test results shall be sent to the

appropriate Ohio EPA District Office or local air agency and the Ohio EPA, Central Office. Certification of the continuous SO₂, NO_x monitoring system shall be granted upon determination by the Ohio EPA, Central Office that the system meets all requirements of ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 6.

- b. Prior to the installation of the continuous opacity monitoring system, the permittee shall submit information detailing the proposed location of the sampling site in accordance with the siting requirements in 40 CFR Part 60, Appendix B, Performance Specification 1 for approval by the Ohio EPA, Central Office.

Within 60 days of the effective date of this permit, the permittee shall conduct certification tests on the continuous opacity monitoring system equipment pursuant to ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 1. Personnel from the appropriate Ohio EPA District Office or local air agency shall be notified 30 days prior to initiation of the applicable tests and shall be permitted to examine equipment and witness the certification tests. Two copies of the test results shall be submitted to the appropriate Ohio EPA District Office or local air agency pursuant to OAC rule 3745-15-04 within 30 days after the test is completed. Certification of the continuous opacity monitoring system shall be granted upon determination by the Ohio EPA, Central Office that the system meets all requirements of ORC section 3704.03(I), and 40 CFR Part 60, Appendix B, Performance Specification 1 including section 5.1.9 (mandatory).

The following requirements apply to emissions units B002 and B005.

- c. Prior to the installation of the continuous SO₂, NO_x monitoring system, the permittee shall submit information detailing the proposed location of the sampling site(s) in accordance with the siting requirements in 40 CFR Part 60, Appendix B, Performance Specification 6 for SO₂, NO_x, for approval by the Ohio EPA, Central Office.

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Within 60 days of the effective date of this permit, the permittee shall conduct certification tests of the continuous SO₂, NO_x monitoring system pursuant to ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 6. Personnel from the appropriate Ohio EPA District Office or local air agency shall be notified 30 days prior to initiation of the applicable tests and shall be permitted to examine equipment and witness the certification tests. In accordance with OAC rule 3745-15-04, all copies of the test results shall be submitted to the appropriate Ohio EPA District Office or local air agency within 30 days after the test is completed. Copies of the test results shall be sent to the appropriate Ohio EPA District Office or local air agency and

the Ohio EPA, Central Office. Certification of the continuous SO₂, NO_x monitoring system shall be granted upon determination by the Ohio EPA, Central Office that the system meets all requirements of ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 6.

3. Monitoring and Recordkeeping

The following requirements apply to emissions units B001, B003, B004, B006 and B007.

- a. The permittee shall operate and maintain equipment to continuously monitor and record SO₂, NO_x from this emissions unit in units of the applicable standard(s). Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13.

The permittee shall maintain records of all data obtained by the continuous SO₂, NO_x monitoring system including, but not limited to, parts per million SO₂, NO_x on an instantaneous (one-minute) basis, emissions of SO₂, NO_x in units of the applicable standard on a 30-day rolling period basis, results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.

- b. Within 60 days of the effective date of this permit or modification to the system, the permittee shall operate

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and maintain the continuous opacity monitoring system equipment to continuously monitor and record the opacity of the particulate emissions from this emissions unit. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13.

The permittee shall maintain records of all data obtained by the continuous opacity monitoring system including, but not limited to, percent opacity on an instantaneous (one-minute) basis, daily zero/span calibration checks, and manual calibration adjustments.

- c. The permittee shall maintain monthly records of the following information to comply with the coal usage limitation as described in section 1.a. above:
- (a) The production rate for each month.
 - (b) Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the production rates.

Also, during the first 12 calendar months of operation following

the issuance of this permit, the permittee shall record the cumulative production rate for each calendar month.

- d. If coal sampling and analysis is used to demonstrate compliance with the SO₂ emission limitation, the permittee shall maintain monthly records of the total quantity of coal received, and the results of the analyses for ash content, sulfur content, and heat content in accordance with the following:

The permittee shall collect a representative sample of each shipment of coal which is received for burning. The coal sampling shall be performed in accordance with ASTM method D2234, Collection of a Gross Sample of Coal. At the end of each calendar month, the representative samples of coal from all shipments of coal which were received during that calendar month shall be combined into one composite sample.

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Each monthly composite sample of coal shall be analyzed for ash content (percent), sulfur content (percent), and heat content (Btu/pound of coal). The analytical methods for ash content, sulfur content and heat content shall be: ASTM method D3174, Ash in the Analysis of Coal and Coke; ASTM method D3177, Total Sulfur in the Analysis Sample of Coal and Coke or ASTM method D4239, Sulfur in the Analysis Sample of Coal and Coke Using High Temperature Tube Furnace Combustion Methods; and ASTM method D2015, Gross Calorific Value of Solid Fuel by the Adiabatic Bomb Calorimeter, ASTM method D3286, Gross Calorific Value of Coal and Coke by the Isothermal Bomb Calorimeter, or ASTM method D1989, Standard Test Method for Gross Calorific Value of Coal and Coke by Microprocessor Controlled Isoperibol Calorimeters, respectively. Alternative, equivalent methods may be used upon written approval from the appropriate Ohio EPA District Office or local air agency.

The following requirements apply to emissions units B002 and B005.

- d. The permittee shall operate and maintain equipment to continuously monitor and record SO₂, NO_x from this emissions unit in units of the applicable standard(s). Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13.

The permittee shall maintain records of all data obtained by the continuous SO₂, NO_x monitoring system including, but not limited to, parts per million SO₂, NO_x on an instantaneous (one-minute) basis, emissions of SO₂, NO_x in units of the applicable standard on a 30-day rolling period basis, results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.

- e. The permittee shall maintain weekly coke oven gas "as received" analysis.

Coke oven gas sampling shall be performed in accordance with the most recent version of ASTM Method D1247-54, "Sampling Manufactured".

The hydrogen sulfide content and heat content of the coke oven gas burned will be used as input into an equation to

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calculate the sulfur dioxide emission rate in terms of pounds per million BTU actual heat input.

Records of the coke oven gas analysis shall be retained on site for a period of not less than five years from the date the data was generated and shall be made available to Ohio EPA personnel anytime during normal business hours.

4. Reporting

The following requirements apply to emissions units B001, B003, B004, B006 and B007.

a. Pursuant to OAC rules 3745-15-04, 3745-35-02, and ORC sections 3704.03(I) and 3704.031 and 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency documenting the date, commencement and completion times, duration magnitude, reason (if known), and corrective actions taken (if any), of all instances of SO₂, NO_x values in excess of the applicable limits specified in this permit to install the 30-day rolling, weighted average SO₂, NO_x emission rates, and the average daily SO₂, NO_x emission rates in units of the applicable standard(s). These reports shall also contain the total SO₂, NO_x emissions for the calendar quarter (in tons).

The permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency documenting any continuous SO₂, NO_x monitoring system downtime while the emissions unit was on line (date, time, duration and reason) along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time during the reporting period and the date, time, reason and corrective action(s) taken for each time period of emissions unit and control equipment malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line shall also be included in the quarterly report.

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If there are no excess emissions during the calendar quarter, the permittee shall submit a statement to that effect along with the emissions unit operating time during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of emissions unit, control equipment, and/or monitoring system malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line also shall be included in the quarterly report. These quarterly excess emission reports shall be submitted by January 31, April 30, July 31, and October 31 of each year and shall address the data obtained during the previous calendar quarter.

If a computerized data acquisition system is installed, then pursuant to OAC rules 3745-15-04, 3745-35-02, and ORC sections 3704.03(I) and 3704.031, the permittee shall submit a summary of the excess emission report pursuant to 40 CFR Part 60 section 60.7. The summary shall be submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following the end of each calendar quarter in a manner prescribed by the Director.

- b. Pursuant to 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency documenting all instances of opacity values in excess of the limitations specified in OAC rule 3745-17-07, detailing the date, commencement and completion times, duration, magnitude (percent opacity), reason (if known), and corrective actions taken (if any) of each 6-minute block average above the applicable opacity limitation(s).

The permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency documenting any continuous opacity monitoring system downtime while the emissions unit was on line (date, time, duration and reason) along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time during the reporting period and the date, time, reason and corrective action(s) taken for each time period of emissions unit and control

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equipment malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line shall be included in the quarterly report.

If there are no excess emissions during the calendar quarter, the permittee shall submit a statement to that

effect along with the emissions unit operating time during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of emissions unit, control equipment, and/or monitoring system malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line also shall be included in the quarterly report. These quarterly excess emission reports shall be submitted by January 31, April 30, July 31, and October 31 of each year and shall address the data obtained during the previous calendar quarter.

- c. The permittee shall submit quarterly deviation (excursion) reports to comply with the coal usage limitation as described in section 1.a. above that identify all exceedances of the rolling, 12-month production rate limitation and, for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative production levels. These reports are due by January 31, April 30, July 31 and October 31 and should include data from the previous quarter. Even if there are no deviations during a quarter, a quarterly report should still be submitted stating that there were no deviations.
- d. If required, quarterly reports shall be submitted concerning the quality and quantity of coal received for burning in this emissions unit. These reports shall include the following information for the emissions unit for each calendar month during the calendar quarter:
 - (a) the total quantity of coal received (tons);
 - (b) the average ash content (percent) of the coal received;

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- (c) the average sulfur content (percent) of the coal received;
- (d) the average heat content (Btu/pound) of the coal received;
and
- (e) the average sulfur dioxide emissions rate (pounds sulfur dioxide/MMBTU actual heat input) from the coal received.

These quarterly reports shall be submitted by January 31, April 30, July 31, and October 31 of each year and shall cover the data obtained during the previous calendar quarters.

The following requirements apply to emissions units B002 and B005.

- e. Pursuant to OAC rules 3745-15-04, 3745-35-02, and ORC sections 3704.03(I) and 3704.031 and 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit reports within 30 days following the end of

each calendar quarter to the appropriate Ohio EPA District Office or local air agency documenting the date, commencement and completion times, duration magnitude, reason (if known), and corrective actions taken (if any), of all instances of SO₂, NO_x values in excess of the applicable limits specified OAC in this permit to install the 30-day rolling, weighted average SO₂, NO_x emission rates, and the average daily SO₂, NO_x emission rates in units of the applicable standard(s). These reports shall also contain the total SO₂, NO_x emissions for the calendar quarter (in tons).

The permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency documenting any continuous SO₂, NO_x monitoring system downtime while the emissions unit was on line (date, time, duration and reason) along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time during the reporting period and the date, time, reason and corrective action(s) taken for each time period of emissions unit and control equipment malfunctions. The total operating time of the

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emissions unit and the total operating time of the analyzer while the emissions unit was on line shall also be included in the quarterly report.

If there are no excess emissions during the calendar quarter, the permittee shall submit a statement to that effect along with the emissions unit operating time during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of emissions unit, control equipment, and/or monitoring system malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line also shall be included in the quarterly report. These quarterly excess emission reports shall be submitted by January 31, April 30, July 31, and October 31 of each year and shall address the data obtained during the previous calendar quarter.

If a computerized data acquisition system is installed, then pursuant to OAC rules 3745-15-04, 3745-35-02, and ORC sections 3704.03(I) and 3704.031, the permittee shall submit a summary of the excess emission report pursuant to 40 CFR Part 60 section 60.7. The summary shall be submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following the end of each calendar quarter in a manner prescribed by the Director.

5. Quality Assurance

The following requirements apply to emission units B001, B003, B004,

B006, and B007.

- a. Within 180 days of the effective date of this permit, the permittee shall develop a written quality assurance/quality control plan for the continuous SO₂, NO_x monitoring system designed to ensure continuous valid and representative readings of SO₂, NO_x. The plan shall follow the requirements of 40 CFR Part 60, Appendix F. The quality assurance/quality control plan and a logbook dedicated to the continuous SO₂, NO_x monitoring system must be kept on site and available for inspection during regular office hours.

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- b. Within 180 days of the effective date of this permit, the permittee shall develop a written quality assurance/quality control plan for the continuous opacity monitoring system designed to ensure continuous valid and representative readings of opacity. The plan shall include, as a minimum, conducting and recording daily automatic zero/span checks, provisions for conducting a quarterly audit of the continuous opacity monitoring system, and a description of preventive maintenance activities. The plan shall describe step by step procedures for ensuring that sections 7.1.4, 7.4.1, 7.4.2, and Table 1-1 of Performance Specification 1 are maintained on a continuous basis. The quality assurance/quality control plan and a logbook dedicated to the continuous opacity monitoring system must be kept on site and available for inspection during regular office hours.

The following requirements apply to emissions units B002 and B005.

- c. Within 180 days of the effective date of this permit, the permittee shall develop a written quality assurance/quality control plan for the continuous SO₂, NO_x monitoring system designed to ensure continuous valid and representative readings of SO₂, NO_x. The plan shall follow the requirements of 40 CFR Part 60, Appendix F. The quality assurance/quality control plan and a logbook dedicated to the continuous SO₂, NO_x monitoring system must be kept on site and available for inspection during regular office hours.

6. Testing Requirements and Compliance Methods

The following requirements apply to emission units B001, B003, B004, B006, and B007.

- a. *Emission Limit:* 0.015 LB/MMBTU actual heat input PM/PM₁₀;
11.5 TPY PM/PM₁₀

Applicable Compliance Method: USEPA Test Method 5 of 40 CFR Part 60, Appendix A.

- b. *Emission Limit:* 0.19 LB/MMBTU actual heat input SO₂; 144.38 TPY SO₂

Applicable Compliance Method: USEPA Test Method 6 of 40 CFR Part 60, Appendix A.

c. *Emission Limit:* 0.036 LB/MMBTU actual heat input NO_x; 27.48 TPY NO_x

Applicable Compliance Method: USEPA Test Method 7 of 40 CFR Part 60, Appendix A.

d. *Emission Limit:* 0.004 LB/MMBTU actual heat input CO; 3.17 TPY CO

Applicable Compliance Method: USEPA Test Method 10 of 40 CFR Part 60, Appendix A.

e. *Emission Limit:* 20% opacity as a six minute average

Applicable Compliance Method: USEPA Method 9 of 40 CFR Part 60, Appendix A.

The following requirements apply to emissions units B002 and B005.

f. *Emission Limit:* 0.01 LB/MMBTU actual heat input PM/PM₁₀; 7.7 TPY PM/PM₁₀

Applicable Compliance Method: USEPA Test Method 5 of 40 CFR Part 60, Appendix A.

g. *Emission Limit:* 0.05 LB/MMBTU actual heat input SO₂; 38.33 TPY SO₂

Applicable Compliance Method: USEPA Test Method 6 of 40 CFR Part 60, Appendix A.

h. *Emission Limit:* 0.15 LB/MMBTU actual heat input NO_x; 112.13 TPY NO_x

Applicable Compliance Method: USEPA Test Method 7 of 40 CFR Part 60, Appendix A.

i. *Emission Limit:* 20% opacity as a six minute average

Applicable Compliance Method: USEPA Method 9 of 40 CFR Part 60, Appendix A.

j. The exhaust of all units is combined and exits one stack after control. The total impact of all the units on this permit complied with the State Modeling Policy. Therefore, compliance testing shall be conducted with all the like-fueled units operating simultaneously. Compliance shall be demonstrated if the total of all the allowable emissions rates of all like-fueled units is not exceeded. A separate compliance demonstration is required for each fuel type, that is, a test is required for all

coal/wood units combined and a separate test is required for all
coke oven gas units combined.